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Final Program

See the ASTMH 55th Annual Meeting **Abstract Book**, included with your registration packet, to view the full text of abstracts presented at the annual meeting.

AMERICAN SOCIETY OF TROPICAL MEDICINE AND HYGIENE

ASTMH 55th Annual Meeting

November 12 –16, 2006
Atlanta Marriott Marquis
Atlanta, Georgia USA

www.astmh.org

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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 based on research and education. 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 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, molecular parasitology and clinical tropical diseases. The mission of ASTMH is to promote world 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 Marquis Foyer.

ASTMH 55th Annual Meeting

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 10

4:00 p.m. – 6:00 p.m.	Pre-Meeting Course Registration

Saturday, November 11

7:00 a.m. – 1:30 p.m.	Pre-Meeting Course Registration
7:00 a.m. – 8:00 a.m.	Registration for Certificate of Knowledge Examination
8:00 a.m. – Noon	Certificate of Knowledge Examination
8:30 a.m. – 4:30 p.m.	Pre-Meeting Course: Knockouts (and Knock-Ins) in Parasites: Promises and Challenges
Noon – 5:00 p.m.	Speaker Ready Room
1:00 p.m. – 5:30 p.m.	Pre-Meeting Course: 100 Years of Rickettsia: Howard Taylor Ricketts Centennial Commemorative

Sunday, November 12

7:00 a.m. – 6:00 p.m.	Speaker Ready Room
7:30 a.m. – 3:00 p.m.	Pre-Meeting Course: 100 Years of Rickettsia: Howard Taylor Ricketts Centennial Commemorative
8:00 a.m. – 3:30 p.m.	ASTMH Council Meeting
10:30 a.m. – 6:00 p.m.	Registration
11:00 a.m. – 3:30 p.m.	Young Investigator Award Presentations
11:00 a.m. – Noon	ACAV SIE Subcommittee Meeting
Noon – 2:00 p.m.	ACAV SIRACA Subcommittee Meeting
1:00 p.m. – 6:00 p.m.	Cyber Café
2:15 – 3:15 p.m.	ACAV SALS Subcommittee Meeting
3:30 p.m. – 5:00 p.m.	ACME Council Meeting
3:30 p.m. – 5:00 p.m.	Young Investigator Award Committee Meeting
3:30 p.m. – 5:00 p.m.	ACMCIP Council Meeting
3:30 p.m. – 5:30 p.m.	ACAV Council Meeting
4:00 p.m. – 5:00 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 13

7:00 a.m. – 5:00 p.m.	Registration
7:00 a.m. – 5:00 p.m.	Cyber Café
7:00 a.m. – 6:00 p.m.	Speaker Ready Room
7:00 a.m. – 8:00 a.m.	Corporate Liaison Committee Meeting
7:00 a.m. – 8:30 a.m.	Clinical Group Council Meeting
7:00 a.m. – 8:00 a.m.	Meet the Professors: Fireside Chat
8:00 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 (#36–285)
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
12:15 p.m. – 1:15 p.m.	Clinical Group Board Certification Committee Meeting
1:30 p.m. – 3:15 p.m.	Scientific Sessions/Symposia
1:30 p.m. – 7:00 p.m.	Poster Session A Viewing
3:00 p.m. – 4:00 p.m.	Exhibits Open
3:15 p.m. – 3:45 p.m.	Break
3:45 p.m. - 5:30 p.m.	Scientific Sessions/Symposia
6:00 p.m. – 7:30 p.m.	Plenary Session II
7:00 p.m. – 8:00 p.m.	Poster Session A Dismantle
7:00 p.m. – 9:00 p.m.	Late Breakers in Basic Science/ Molecular Biology
7:00 p.m. – 9:00 p.m.	Late Breakers in Clinical Tropical Medicine

Tuesday, November 14

7:00 a.m. – 5:00 p.m.	Registration
7:00 a.m. – 5:00 p.m.	Cyber Café
7:00 a.m. – 6:00 p.m.	Speaker Ready Room
7:00 a.m. – 8:00 a.m.	Journal Editorial Board Meeting
7:00 a.m. – 8:00 a.m.	Clinical Group Past Presidents Meeting
8:00 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 (#394–645)
Noon – 1:30 p.m.	Exhibits Open/Light Lunch
Noon – 1:30 p.m.	Poster Session B Presentations
12:15 p.m. – 1:15 p.m.	Meet the Professors and Mid-Day Sessions
1:30 p.m. – 3:15 p.m.	Scientific Sessions/Symposia
1:30 p.m. – 7:00 p.m.	Poster Session B Viewing
3:00 p.m. – 4:00 p.m.	Exhibits Open
3:15 p.m. – 3:45 p.m.	Break
3:45 p.m. – 5:30 p.m.	Scientific Sessions/Symposia
6:00 p.m. – 6:45 p.m.	Plenary Session III
7:00 p.m. – 8:00 p.m.	Poster Session B Dismantle
7:00 p.m. – 9:00 p.m.	Burroughs Wellcome Fund-ASTMH Fellowship Committee Meeting

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.

Wednesday, November 15

7:00 a.m. – 5:00 p.m.	Registration
7:00 a.m. – 5:00 p.m.	Cyber Café
7:00 a.m. – 6:00 p.m.	Speaker Ready Room
7:00 a.m. – 8:00 a.m.	Diploma Course Directors Meeting
7:00 a.m. – 8:00 a.m.	ASTMH Past Presidents Meeting
7:00 a.m. – 8:00 a.m.	Cyberspace/Web SIte Committee Meeting
7:00 a.m. – 8:00 a.m.	Scientific Program Committee Meeting
8:00 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
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 (#738–966)/ 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
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. – 7:00 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
6:00 p.m. – 7:30 p.m.	Plenary Session IV: Presidential Address and Annual Business Meeting
7:00 p.m. – 8:00 p.m.	Poster Session C Dismantle

Thursday, November 16

7:00 a.m. – 10:30 a.m.	Registration
7:00 a.m. – 10:30 a.m.	Cyber Café
7:00 a.m. – Noon	Speaker Ready Room
7:30 a.m. – 9:30 a.m.	ASTMH Council Meeting
8:00 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 12

	International Level	Marquis Ballroom	Summit	Copenhagen/ Stockholm/ Amsterdam	Sydney/ Zurich	Marquis 2	Bonn/ London	10th Floor Foyer
6:30 a.m.								
6:45 a.m.								
7:00 a.m.								
7:15 a.m.								
7:30 a.m.								
7:45 a.m.								
8:00 a.m.			ASTMH Council Metting					
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. 34	Young Investigator Award B P. 36	Young Investigator Award C P. 38	Young Investigator Award D P. 39	
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.							Young Investigator Award Committee Meeting	
3:45 p.m.								
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.		Plenary I Craig Lecture Society Awards P. 41						
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.	Opening Reception							
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.								

Sunday, November 12 (continued)

	Room 904	Room 907	Room 3829	
6:30 a.m.				
6:45 a.m.				
7:00 a.m.				
7:15 a.m.				
7:30 a.m.				
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8:15 a.m.				
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9:30 a.m.				
9:45 a.m.				
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10:30 a.m.				
10:45 a.m.				
11:00 a.m.			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.				
2:15 p.m.			ACAV SALS	
2:30 p.m.				
2:45 p.m.				
3:00 p.m.				
3:15 p.m.				
3:30 p.m.	ACME Council Meeting	ACMCIP Council Meeting	ACAV Council Meeting	
3:45 p.m.				
4:00 p.m.				
4:15 p.m.				
4:30 p.m.				
4:45 p.m.				
5:00 p.m.				
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9:00 p.m.				
9:15 p.m.				
9:30 p.m.				
9:45 p.m.				
10:00 p.m.				
10:15 p.m.				

Visit the Cyber Café on the Garden Level South

Need a place to meet?

Sign up for meeting time in the Trinidad and Madrid rooms on the Convention Level.

Schedule-at-a-Glance

Monday, November 13

	International Level	International and Skyline Levels	Sydney/Zurich	Bonn/London	International 4	International 7	International 5/6	Copenhagen/ Stockholm/ Amsterdam
6:30 a.m.								
6:45 a.m.								
7:00 a.m.							1 Meet the Professors A P. 43	
7:15 a.m.								
7:30 a.m.								
7:45 a.m.								
8:00 a.m.			**Scientific Session 2** *Anthropods-Entomology* P. 43	**Symposium 3** *Teaching Tropical Medicine* P. 44	**Symposium 4** *Diagnostic Dev. FIND* P. 44	**Symposium 4A** *Monkey Pox* P. 45	**Symposium 5** *Flaviviral Infection* P. 45	**Symposium 6** *GM Anopheles* P. 46
8:15 a.m.								
8:30 a.m.								
8:45 a.m.								
9:00 a.m.								
9:15 a.m.								
9:30 a.m.	Exhibits Open (Coffee Break) 9:45–10:15 a.m.							
9:45 a.m.		Poster Session A Set-up						
10:00 a.m.								
10:15 a.m.		Poster Session A Viewing	**Symposium 11** *Malaria Pigment Bio* P. 49	**Symposium 12** *Public Health Training* P. 49	**Scientific Session 13** *Mosquitoes Biochem/Mol Bio/Mol Gen I* P. 50	**Symposium 14** *US Canine Leishmania* P. 51	**Symposium 15** *Filariasis Elimination Program* P. 51	**Scientific Session 16** *Schisto I Immunology* P. 52
10:30 a.m.								
10:45 a.m.								
11:00 a.m.								
11:15 a.m.								
11:30 a.m.								
11:45 a.m.								
12:00 p.m.	Exhibits Open/ Light Lunch	Poster Session A Presentations P. 55						
12:15 p.m.							**21** Meet the Professors B P.79	**21A** AJTMH Scientific Manuscripts P. 79
12:30 p.m.								
12:45 p.m.								
1:00 p.m.								
1:15 p.m.								
1:30 p.m.		Poster Session A Viewing			**Scientific Session 25** *Bacteriology I Diarrhea I* P. 81	**Symposium 26** *Malaria Pregnancy* P. 82	**Symposium 27** *ACTs Tanzania* P. 82	**Symposium 28** *Social Political Tropical Medicine* P. 83
1:45 p.m.								
2:00 p.m.								
2:15 p.m.								
2:30 p.m.								
2:45 p.m.								
3:00 p.m.	Exhibits Open (Coffee Break) 3:15–3:45 p.m.							
3:15 p.m.								
3:30 p.m.								
3:45 p.m.			**Symposium 33** *EDEN Project* P. 87	**Symposium 34** *Tropical Toxin Exposures* P. 87	**Scientific Session 35** *Bacteriology II Diarrhea II* P. 88		**Symposium 36** *NTDs Programs* P. 88	**Scientific Session 37** *HIV Tropics* P. 89
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.								
5:45 p.m.								
6:00 p.m.								
6:15 p.m.								
6:30 p.m.								
6:45 p.m.								
7:00 p.m.		Poster Session A Dismantle						**Late Breakers** Clinical Tropical Medicine P. 93
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 13 (continued)

	Marquis 3	Marquis 4	Marquis 2	Marquis 1
6:30 a.m.				
6:45 a.m.				
7:00 a.m.				
7:15 a.m.				
7:30 a.m.				
7:45 a.m.				
8:00 a.m.	**Symposium 7** *ACMCIP Malaria Functional Genomics* P. 46	**Symposium 8** *Hydatid PAIR* P. 47	**Symposium 9** *Diarrhea Non-Vaccine Interventions* P. 47	**Scientific Session 10** *Malaria Epi I* P. 48
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.	**Symposium 17** *Malaria Parasite-Host Genetic Diversity* P. 52	**Symposium 18** *ACTs* P. 52	**Symposium 19** *Arboviruses ACAV* P. 52	**Scientific Session 20** *Malaria Epi II* P. 52
10:30 a.m.				
10:45 a.m.				
11:00 a.m.				
11:15 a.m.				
11:30 a.m.				
11:45 a.m.				
12:00 p.m.				
12:15 p.m.	**22** Tropical Med and Media P. 80	**23** AIDS at 25 and Beyond P. 80		**24** Disaster Med P. 80
12:30 p.m.				
12:45 p.m.				
1:00 p.m.				
1:15 p.m.				
1:30 p.m.	**Scientific Session 29** *ACMCIP Molecular Parasitology I* P. 83	**Symposium 30** *ACME I Mosquito Gene Manipulation* P. 84	**Scientific Session 31** *Malaria Genetic Diversity* P. 85	**Scientific Session 32** *Clinical Tropical Medicine I* P. 86
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.	**Scientific Session 38** *ACMCIP Molecular Parasitology II* P. 90	**Symposium 39** *ACME II Viruses/ Vaccines/Vectors* P. 91	**Scientific Session 40** *Malaria Drug Development* P. 91	**Scientific Session 41** *Clinical Tropical Medicine II* P. 92
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.				
5:45 p.m.				
6:00 p.m.	**Plenary 2** Julie Gerberding, Roger Glass P. 93			
6:15 p.m.				
6:30 p.m.				
6:45 p.m.				
7:00 p.m.				**Late Breakers** Basic Science/ Molecular Biology P. 93
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.				

Visit the Cyber Café on the Garden Level South

Need a place to meet?
Sign up for meeting time in the Trinidad and Madrid rooms on the Convention Level.

Schedule-at-a-Glance

Tuesday, November 14

	International Level	International and Skyline Levels	Sydney/Zurich	Bonn/London	International 5/6	Copenhagen/ Stockholm/ Amsterdam	Marquis 3	Marquis 4
6:30 a.m.								
6:45 a.m.								
7:00 a.m.								
7:15 a.m.								
7:30 a.m.								
7:45 a.m.								
8:00 a.m.			**Symposium 42** *Hydatid Difficult Cases* P. 93	**Symposium 43** *Malaria Rapid Dx* P. 94	**Scientific Session 44** *Filariasis 1-Clinical/Epi* P. 94	**Symposium 45** *Global Pneumonia* P. 95	**Scientific Session 46** *Malaria Immunology* P. 96	**Symposium 47** *Malaria Capacity Building* P. 97
8:15 a.m.								
8:30 a.m.								
8:45 a.m.								
9:00 a.m.								
9:15 a.m.								
9:30 a.m.	Exhibits Open							
9:45 a.m.		Poster Session B Set-up						
10:00 a.m.	(Coffee Break) 9:45–10:15 a.m.							
10:15 a.m.		Poster Session B Viewing P. 106	**Symposium 52** *Schistosomiasis Agenda* P. 101	**Symposium 53** *Malaria Retinopathy* P. 101	**Symposium 54** *Drug Discovery* P. 101	**Symposium 55** *Global Threats* P. 102	**Symposium 56** *Malaria Vaccine Platforms* P. 102	**Symposium 57** *Yellow Fever Vaccine Safety* P. 103
10:30 a.m.								
10:45 a.m.								
11:00 a.m.								
11:15 a.m.								
11:30 a.m.								
11:45 a.m.								
12:00 p.m.	Exhibits Open/ Light Lunch	Poster Session B Presentations P. 106						
12:15 p.m.				**61B** CDC Emerging ID Kenya P. 130	**62** Meet the Professors C P. 130	**63** E-grants NIH P. 130	**64** Tafenoquine: Where are We? P. 131	**64A** Irradiated P. Falcip Vaccine P. 131
12:30 p.m.								
12:45 p.m.								
1:00 p.m.								
1:15 p.m.								
1:30 p.m.		Poster Session B Viewing			**Symposium 66** *Vector Replacement Strategies* P. 132	**Scientific Session 67** *ACMCIP Cellular Parasitology I* P. 132	**Symposium 68** *Malaria Immunity MIM/TDR* P. 133	**Scientific Session 69** Malaria Drug Mechanisms P. 134
1:45 p.m.								
2:00 p.m.								
2:15 p.m.								
2:30 p.m.								
2:45 p.m.								
3:00 p.m.	Exhibits Open							
3:15 p.m.								
3:30 p.m.	(Coffee Break) 3:15–3:45 p.m.							
3:45 p.m.				**Symposium 72** *Malaria: Removal Drug Pressure* P. 136	**Symposium 73** *Mosquito Innate Immunity* P. 137	**Scientific Session 74** *ACMCIP Cellular Parasitology II* P. 137	**Symposium 75** *Pathogen Genomes* P. 138	**Scientific Session 76** *Malaria Dx* P. 138
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.								
5:45 p.m.								
6:00 p.m.							Plenary 3 Comm Fund Lecture P. 141	
6:15 p.m.								
6:30 p.m.								
6:45 p.m.								
7:00 p.m.		Poster Session B Dismantle						
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 14 (continued)

	International 4	International 7	Marquis 1	Marquis 2
6:30 a.m.				
6:45 a.m.				
7:00 a.m.				
7:15 a.m.				
7:30 a.m.				
7:45 a.m.				
8:00 a.m.	**Scientific Session 48** *Ectoparasite Borne* P. 97	**Symposium 49** *Plasmodia Mosquito* P. 98	**Scientific Session 50** *Flavivirus I Dengue I* P. 98	**Scientific Session 51** *Malaria Mol Drug Resistance* P. 99
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.	**Scientific Session 58** *Protozoa* P. 103	**Scientific Session 59** *Helminths I Cysticercosis* P. 104	**Symposium 60** *Mosquito-Virus Evolution* P. 105	**Symposium 61** *New Initiatives Malaria-Mosquito BWF* P. 106
10:30 a.m.				
10:45 a.m.				
11:00 a.m.				
11:15 a.m.				
11:30 a.m.				
11:45 a.m.				
12:00 p.m.				
12:15 p.m.	**65** Worker in Trop Med Movie Karl Johnson P. 131			
12:30 p.m.				
12:45 p.m.				
1:00 p.m.				
1:15 p.m.				
1:30 p.m.	**Symposium 69A** *Dihydroatemisinin-Piperaquine* P. 134		**Scientific Session 70** *Viruses I* P. 135	**Symposium 71** *Clinical Group I* P. 136
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.		**Symposium 77** *Neglected Diseases Rx Dev* P. 139	**Scientific Session 78** *Viruses II* P. 140	**Symposium 79** *Clinical Group II* 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.				
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.				

Visit the Cyber Café on the Garden Level South

Need a place to meet?
Sign up for meeting time in the Trinidad and Madrid rooms on the Convention Level.

Schedule-at-a-Glance

Wednesday, November 15

	International Level	International and Skyline Levels	International 5/6	Copenhagen/ Stockholm/ Amsterdam	Marquis 3	Marquis 4	International 4	International 7
6:30 a.m.								
6:45 a.m.								
7:00 a.m.								
7:15 a.m.								
7:30 a.m.								
7:45 a.m.								
8:00 a.m.			**Symposium 80** *Tropical Medicine HTD-London* P. 142	**Scientific Session 81** *Kinetoplastida I Imm and Mol Bio* P. 142	**Symposium 82** *Dengue Immunity* P. 143	**Symposium 83** *Public-Private Malaria Vaccine* P. 143		
8:15 a.m.								
8:30 a.m.								
8:45 a.m.								
9:00 a.m.								
9:15 a.m.								
9:30 a.m.	Exhibits Open (Coffee Break) 9:45–10:15 a.m.							
9:45 a.m.		Poster Session C Set-up						
10:00 a.m.								
10:15 a.m.		Poster Session C Viewing	**Scientific Session 91** *Helminths II Echino* P. 148	**Symposium 92** *Malaria Vaccine Genetic Diversity* P. 149	**Symposium 93** *Dengue Immuno Path* P. 149	**Scientific Session 94** *Malaria ACT* P. 150	**Symposium 94A** *Zinc Supplementation* P. 151	
10:30 a.m.								
10:45 a.m.								
11:00 a.m.								
11:15 a.m.								
11:30 a.m.								
11:45 a.m.								
12:00 p.m.	Exhibits Open/ Light Lunch	Poster Session C Presentations P. 155						
12:15 p.m.			**102** Meet the Professors D P.177				**103** William Collins Video P.177	
12:30 p.m.								
12:45 p.m.								
1:00 p.m.								
1:15 p.m.								
1:30 p.m.		Poster Session A Viewing	**Symposium 104** *Health Systems Africa* P. 177	**Scientific Session 105** *ACMCIP Immuno Parasitology I* P. 178	**Scientific Session 106** *Malaria Bio/Path I* P. 179	**Symposium 107** *Artemisinin Supply Chain* P. 180	**Symposium 107A** *Malaria Vaccine Cand MSP1 LSA1* P. 180	
1:45 p.m.								
2:00 p.m.								
2:15 p.m.								
2:30 p.m.								
2:45 p.m.								
3:00 p.m.	Exhibits Open (Coffee Break) 3:15–3:45 p.m.							
3:15 p.m.								
3:30 p.m.								
3:45 p.m.			**Symposium 115** *Health Systems Malaria Africa* P. 185	**Scientific Session 116** *ACMCIP Immuno Parasitology II* P. 185	**Scientific Session 117** *Malaria Bio/Path II* P. 186	**Scientific Session 118** *Malaria Chemo Rx* P. 187		**Symposium 119** *Alveolar Echinococcosis* P. 188
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.								
5:45 p.m.								
6:00 p.m.					**Plenary 4** Presidential Address Business Meeting P. 193			
6:15 p.m.								
6:30 p.m.								
6:45 p.m.								
7:00 p.m.		Poster Session C Dismantle						
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 15 (continued)

	Marquis 1	Marquis 2	Hilton Hotel Grand Salon A	Hilton Hotel Grand Salon B	Hilton Hotel Grand Salon C	Hilton Hotel Grand Salon D	Hilton Hotel Grand Salon E	
6:30 a.m.								
6:45 a.m.								
7:00 a.m.								
7:15 a.m.								
7:30 a.m.								
7:45 a.m.								
8:00 a.m.	**Symposium 84** *NIH New Investigators I* P. 144	**Scientific Session 85** *Mosquito Vector Bio/Epi I* P. 144	**Symposium 86** *Malaria Anemia Rx* P. 145	**Scientific Session 87** *Bacteriology III Resp/Other* P. 145	**Symposium 88** *Anti-Malaria RBx11160* P. 146	**Symposium 89** *HAT Rx* P. 147	**Scientific Session 90** *Filariasis II Mol Bio/Bio* P. 147	
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.	**Symposium 95** *NIH New Investigators II* P. 151	**Scientific Session 96** *Mosquito Vector Bio/Epi II* P. 152	**Symposium 97** *Malaria Anemia Patho* P. 152	**Scientific Session 98** *Schisto II Mol Bio* P. 153	**Symposium 99** *Malaria Intervention Bioko* P. 154	**Symposium 100** *HAT R+D* P. 154	**Symposium 101** *Amebiasis* P. 155	
10:30 a.m.								
10:45 a.m.								
11:00 a.m.								
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.	**Scientific Session 108** *Flavivirus II Vaccines* P. 181	**Symposium 109** *IPTi* P. 182	**Symposium 110** *Refugee Immigrant Health I* P. 182	**Symposium 111** *Water-borne Pathogens* P. 183	**Symposium 112** *Mosquito Resource Seeking* P. 183	**Symposium 113** *Tropical Neurology* P. 184	**Symposium 114** *HAART Africa* P. 184	
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.	**Scientific Session 120** *Flavivirus III Dengue II* P. 189	**Symposium 121** *JEV Vaccine* P. 190	**Symposium 122** *Refugee Immigrant Health II* P. 190		**Scientific Session 124** *Mosquito Biochem Mol Bio Gen II* P. 191	**Symposium 125** *Merozoite RBC* P. 192	**Symposium 126** *Zoonoses* P. 192	
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.								
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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 16

	International Level	International 5/6	Copenhagen/ Stockholm/ Amsterdam	Marquis 3	Marquis 4	Marquis 1	Marquis 2	
6:30 a.m.								
6:45 a.m.								
7:00 a.m.								
7:15 a.m.								
7:30 a.m.								
7:45 a.m.								
8:00 a.m.		**Scientific Session 127** *Filariasis III Immunology* P. 193	**Symposium 128** *New Fixed-dose ACTs* P. 194	**Scientific Session 129** *Kinetoplastida II Epi, Dx and Rx* P. 195	**Scientific Session 130** *Clinical Tropical Med III* P. 195	**Scientific Session 131** *Flavivirus IV West Nile Virus* P. 196	**Scientific Session 132** *Malaria Vaccines I* P. 197	
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.	Coffee Break							
10:00 a.m.								
10:15 a.m.		**Scientific Session 138** *Schisto Epi* P. 202	**Symposium 139** *Pyronaridine-Artesunate* P. 203	**Scientific Session 140** *Malaria Mosquito Vector Bio* P. 203	**Scientific Session 141** *Clinical Tropical Medicine IV* P. 204	**Scientific Session 142** *Flavivirus V Dengue III* P. 205	**Scientific Session 143** *Malaria Vaccines II* P. 206	
10:30 a.m.								
10:45 a.m.								
11:00 a.m.								
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.								

	Hilton Hotel Grand Salon A	Hilton Hotel Grand Salon B	Hilton Hotel Grand Salon C	Hilton Hotel Grand Salon D	Hilton Hotel Grand Salon E			
6:30 a.m.								
6:45 a.m.								
7:00 a.m.								
7:15 a.m.								
7:30 a.m.								
7:45 a.m.								
8:00 a.m.	**Scientific Session 133** *Mosquito Vector Bio/Epi III* P. 198	**Symposium 134** *EIDS US/Mexico* P. 199	**Symposium 135** *Tropical Heart Disease* P. 200	**Symposium 136** *Cysticercosis Rx* P. 200	**Scientific Session 137** *Bacteriology IV Systemic/Other* P. 201			
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.	**Symposium 144** *Protozoal Organelles* P. 207			**Symposium 147** *GIS: Vector Borne Diseases* P. 207	**Scientific Session 148** *Helminths III Nematodes* P. 208			
10:30 a.m.								
10:45 a.m.								
11:00 a.m.								
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.								

Affiliate Group Meeting Schedule

Saturday, November 11	Sunday, November 12	Monday, November 13	Tuesday, November 14	Wednesday, November 15	Thursday, November 16	Friday, November 17
Fogarty International Center Infectious Disease Research Networking Meeting 9 a.m. – 5 p.m. *Copenhagen/ Stockholm/ Amsterdam, Bonn, Sydney*	**Bill and Melinda Gates Foundation** 8 a.m. – 6 p.m. *Room 3824*	**Bill and Melinda Gates Foundation** 8 a.m. – 6 p.m. *Room 3824*	**The Public Library of Science Neglected Tropical Diseases Editorial Board Meeting** 7 a.m. – 8 a.m. *Room 3834*	**Bill and Melinda Gates Foundation** 8 a.m. – 6 p.m. *Room 3824*	**Bill and Melinda Gates Foundation** 8 a.m. – 6 p.m. *Room 3824*	**Bill and Melinda Gates Foundation** 8 a.m. – 6 p.m. *Room 3824*
Fogarty International Center Global Infectious Disease Grant Workshop 9 a.m. – 5 p.m. *Room 3914*	**GlaxoSmithKline Conference Rooms** 8 a.m. – 6 p.m. *Rooms 3814, 3929*	**GlaxoSmithKline Conference Rooms** 8 a.m. – 6 p.m. *Rooms 3814, 3929*	**NIH/NIAID Collaborators Meeting** 7 a.m. – 9 a.m. *Room 4029*	**GlaxoSmithKline Conference Rooms** 8 a.m. – 6 p.m. *Rooms 3814, 3929*	**GlaxoSmithKline Conference Rooms** 8 a.m. – 6 p.m. *Rooms 3814, 3929*	**Malaria Vaccine Initiative CTPC Meeting** 8 a.m. – 6 p.m. *Sydney*
Sabin Vaccine Institute: HHVI Clinical Trial Team Meeting 9 a.m. – 4 p.m. *Room 3814*	**UMass Medical School-Sponsored Annual Investigators' Meeting** 8 a.m. – 5 p.m. *Room 3934*	**Institute for OneWorld Health Project Teams: Malaria, VL and Diarrhea** 9 a.m. – 5 p.m. *Rooms 904, 907, 910*	**Bill and Melinda Gates Foundation** 8 a.m. – 6 p.m. *Room 3824*	**Novartis Pharma AG Conference Room** 8 a.m. – 6 p.m. *Room 928*	**Ecology of Infectious Disease Networking Group** 8:30 a.m. – 6 p.m. *International 8/9/10*	**Ecology of Infectious Disease Networking Group** 8:30 a.m. – 4:30 p.m. *International 8/9/10*
WHO Task Force on Clinical Trials of Dengue Vaccines 9 a.m. – 6 p.m. *Consulate*	**Fogarty International Center Global Infectious Disease Grant Workshop** 9 a.m. – 5 p.m. *Room 3914*	**Institute for OneWorld Health Reception and Dinner** 6 p.m. – 10 p.m. *Hilton Hotel Crystal Ballroom*	**GlaxoSmithKline Conference Rooms** 8 a.m. – 6 p.m. *Rooms 3814, 3929*	**Institute for OneWorld Health Project Teams: Malaria, VL and Diarrhea** 9 a.m. – 5 p.m. *Rooms 904, 907, 910*	**Institute for OneWorld Health Board of Directors Meeting** 9 a.m. – 5 p.m. *Room 3908*	
	WHO Task Force on Clinical Trials of Dengue Vaccines 9 a.m. – 6 p.m. *Consulate*	**London School of Hygiene and Tropical Medicine Alumni Reception** 7 p.m. – 9 p.m. *Hilton Hotel Point of View Lounge*	**Institute for OneWorld Health Project Teams: Malaria, VL and Diarrhea** 9 a.m. – 5 p.m. *Rooms 904, 907, 910*	**PATH MVI/GlaxoSmithKline Steering Committee Meeting** 4 p.m. – 7 p.m.	**Institute for OneWorld Health Project Teams: Malaria, VL and Diarrhea** 9 a.m. – 5 p.m. *Rooms 904, 907, 910*	
	MR4 Science Advisory Committee 10 a.m. – 3 p.m. *Cabinet*		**WRAIR/ GlaxoSmithKline Dengue Meeting** 2 p.m. – 8 p.m. *Room 4029*		**Burroughs Wellcome Fund Panel Discussion** Noon – 6 p.m. *International 6*	
	Malaria Vaccine Initiative Technical Advisory Group Noon – 5 p.m. *Room 3908*		**WRAIR Meet and Greet the Commanding Officer** 5 p.m. – 7 p.m. *Consulate*		**Malaria Vaccine Initiative CTPC Meeting** 12:30 p.m. – 8 p.m. *London*	
	GeoSentinel Site Directors Meeting 2:30 p.m. – 5 p.m. *Room 4029*		**Liverpool School of Tropical Medicine MIP Working Group** 6 p.m. – 8 p.m. *Room 925*			
	Malaria Vaccine Initiative A1 Technical Advisory Group 3 p.m. – 5 p.m. *Room 3924*		**Broad Institute Malaria Genetic Diversity Project** 7 p.m. – 9 p.m. *Sydney/Zurich*			

NOTE:
Affiliate group meetings are by invitation only.

ASTMH Council, Committee and Subgroup Meetings

www.astmh.org

Sunday, November 12

ASTMH Council Meeting
Summit
8:00 a.m. – 3:30 p.m.

American Committee on Arthropod-Borne Viruses (ACAV) SIE Subcommittee
Room 3829
11:00 a.m. – Noon

American Committee on Arthropod-Borne Viruses (ACAV) SIRACA Subcommittee
Room 3829
Noon – 2:00 p.m.

American Committee on Arthropod-Borne Viruses (ACAV) SALS Subcommittee
Room 3829
2:15 p.m. – 3:15 p.m.

American Committee of Medical Entomology (ACME) Council Meeting
Room 904
3:30 p.m. – 5:00 p.m.

American Committee on Arthropod-Borne Viruses (ACAV) Council Meeting
Room 3829
3:30 p.m. – 5:30 p.m.

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) Council Meeting
Room 907
3:30 p.m. – 5:00 p.m.

Young Investigator Award Committee Meeting
Bonn/London
3:30 p.m. – 5:00 p.m.

Monday, November 13

Clinical Group Council Meeting
Room 3829
7:00 a.m. – 8:30 a.m.

Public Policy Working Group
Room 3908
7:00 a.m. – 8:00 a.m.

Clinical Group Education Curriculum Committee Meeting
Room 3914
Noon – 1:30 p.m.

Clinical Group Board Certification Committee Meeting
Room 3934
12:15 p.m. – 1:15 p.m.

Certificate Exam Executive Committee Meeting
Room 3908
12:15 p.m. – 1:15 p.m.

Tuesday, November 14

Clinical Group Past Presidents Meeting
Room 3914
7:00 a.m. – 8:00 a.m.

Journal Editorial Board Meeting
Room 3908
7:00 a.m. – 8:00 a.m.

Burroughs Wellcome Fund — ASTMH Fellowship Committee Meeting
Room 3908
7:00 p.m. – 9:00 p.m.

Wednesday, November 15

ASTMH Past Presidents Meeting
Summit
7:00 a.m. – 8:00 a.m.

Cyberspace/Web Site Committee Meeting
Room 3908
7:00 a.m. – 8:00 a.m.

Diploma Course Directors Meeting
Room 3834
7:00 a.m. – 8:00 a.m.

Scientific Program Committee Meeting
Consulate
7:00 a.m. – 8:00 a.m.

Certificate Exam Committee Meeting
Room 3908
12:15 p.m. – 1:15 p.m.

Continuing Medical Education/Courses Committee Meeting
Room 3914
12:15 p.m. – 1:15 p.m.

Thursday, November 16

ASTMH Council Meeting
Summit
7:30 a.m. – 9:30 a.m.

Committee Meetings

The Trinidad room and Madrid room on the Convention level, 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.

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James Kazura

Editors, *Tropical Medicine and Hygiene News*
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Advisor
Peter Weller

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Chair: Edward Ryan
Regina LaRocque
Pavani Ram

Bioterrorism
Chair: Daniel Carucci
Carter Diggs
Jim Hughes
George Korch

Clinical Tropical Medicine
Chair: Alan Magill
Robert Gasser
Davidson Hamer
Larry Laughlin
Alan Spira
Marty Wolfe
David McNeeley
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Brad Connor
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Jaco Smit

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Chair: Amy Klion
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T.V. Rajan
Gary Weil

Schistosomiasis-Helminths
Chair: Tom Wynn
Evan Secor
Miguel Stadecker
David Williams

Intestinal and Tissue Helminths, Cestodes
Chair: Michael Cappello
Mark Eberhard
Peter Kern
A. Clinton White

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
Chris Plowe
Laurence Slutsker
Joe Vinetz
Sarah Volkman
Kim Williamson
Yimin Wu

Meet the Professors
Anne McCarthy

Molecular Parasitology
Chair: Michael Cappello
John Adams
Barbara Burleigh
Daniel Carucci
Brian Cooke
Stuart Kahn
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

Tick-Louse-Flea-Mite-Borne Diseases
Chair: Stephen Dumler
Bob Lane
Sam Telford

Tropical HIV
Chair: Jean Nachega
Davidson Hamer
Rocio Hurtado

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Chair: David Vaughn
Carol Blair
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Chair: Terrie Taylor
Stephen Calderwood; Ravi Durvasula; Richard Guerrant; Victoria McGovern; Claire Panosian

Certificate Examination
Chair: David Freedman
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Certificate Exam Executive Committee
Chair: James Maguire
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Chair: Mike Levine (2006)

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Cyberspace Committee
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J. Kevin Baird; J. Stephen Dumler; Hisashi Fujioka; Diane McMahon-Pratt; Scott C. Weaver

Clinical Group Editor:
James Maguire

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
Chair: Don Krogstad

Lecture (Fred L. Soper and Charles F. Craig)
Chair: Robert Tesh
Donald Burke; David Freedman (Gorgas representative); Peter Hotez; William Petri

Legislative Action
Co-Chairs: Peter Hotez and Eric Ottesen
Donald Burke; Stephen Hoffman; Alan Magill; Philip Russell

Membership
Acting Chair: George Hillyer

Newsletter Editorial Board
William Collins, Editor
Geoffrey Jeffery, Editor
Kathryn Aultman; Latha Rajan; Mitzi Sereno; Karl Western

Nominations
Chair: Thomas Monath (2006)
Gray Heppner (2006-2007); Anthony James (2006-2007); Larry Laughlin (2005-2006); James Maguire (2005-2006); Barbara Mann (2006-2007); Elizabeth Nardin (2006-2007); Regina Rabinovich (2005-2006); Rebeca Rico-Hesse (2005-2006); Robert Tesh (2005-2006); Mark Wilson (2006-2007)

Pfizer Centennial Travel Award
Chair: Joe Vinetz
John Adams; Barbara Burleigh; Michael Cappello; Barbara Mann; Diane McMahon-Pratt

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

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
Daniel Colley; Ed Cupp; Duane Gubler; David Kaslow; Evan Secor

Update Course in Clinical Tropical Medicine and Travelers' Health
Co-Chairs: Jay Keystone and Alan Magill

Young Investigator Award
Chair: Peter Zimmerman
Daniel Bausch; Brenda Beerntsen; Caryn Bern; Michael Ferdig; Anthony James; Christopher King; Nicholas Komar; Julian Rayner; Evan Secor

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American Committee of Medical Entomology (ACME)
Chair: Michael Turell

American Committee on Arthropod-Borne Viruses (ACAV)
Chair: Douglas Watts

Clinical Group (American Committee on Clinical Tropical Medicine and Travelers' Health – ACCTMTH)
President: J. Dick MacLean

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP)
President: John Adams

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Affiliate Membership & Travel Awards

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
HealthQuest Media Inc.
Techlab Inc.

Contributor
Merck Research Laboratories
Panbio Inc.

2006 Travel Awards

Supported with funding from the National Institutes of Health/National Institute of Allergy and Infectious Diseases

Ibne Karim M. Ali
Stanford University
Stanford, California USA
Abstract 621

Tran Chau Nguyen
Hospital for Tropical Diseases,
Clinical Research Unit
Ho Chi Minh City, Vietnam
Abstract 1005

Rushina Cholera
National Institutes of Health/National Institute of Allergy and Infectious Diseases
Bethesda, Maryland USA
Abstract 996

Josue da Costa Lima, Jr.
Fundação Oswaldo Cruz
Rio de Janeiro, Brazil
Abstract 198

Judith Easterbrook
The Johns Hopkins Bloomberg School of Public Health
Baltimore, Maryland USA
Abstract 678

Joseph Fair
Tulane University
Ft. Detrick, Maryland USA
Abstract 277

Darryl Falzarano
University of Manitoba
Winnipeg, Manitoba Canada
Abstract 660

Yvette A. Girard
University of Texas Medical Branch
Galveston, Texas USA
Abstract 120

Moses R. Kamya
Makerere University
Kampala, Uganda
Abstract 320

Rebekah Kent
The Johns Hopkins Bloomberg School of Public Health
Baltimore, Maryland USA
Abstract 1060

Mark Kuniholm
The Johns Hopkins Bloomberg School of Public Health
Baltimore, Maryland USA
Abstract 659

Daniella Martins
Federal University of Rio Grande del Norte
Natal, Brazil
Abstract 685

Kriti Mittal
Clemson University
Clemson, South Carolina USA
Abstract 942

Luciano Moreira
Centro de Pesquisas René Rachou
Belo Horizonte, Brazil
Abstract 582

Kija Ng'habi
Ifakara Health Research and Development Centre
Morogoro, United Republic of Tanzania
Abstract 1055

Denise Njama-Meya
Makerere University
Kampala, Uganda
Abstract 343

Jonathan M. Sherman
Mayo Medical School
Rochester, Minnesota USA
Abstract 1082

Ratawan Ubalee
Armed Forces Research Institute of Medical Sciences (AFRIMS)
Bangkok, Thailand
Abstract 164

Tsin Wen Yeo
Menzies School of Health Research
Darwin, Australia
Abstract 339

Karine Zevallos Villegas
Universidad Peruana Cayeto Heredia Peru
Iquitos, Peru
Abstract 1083

2006 American Committee of Medical Entomology (ACME) Travel Awards

Luca Facchinelli
Univerity of Rome "La Sapienza"
Rome, Italy
Abstract 256

Sonja Kjos
Texas A&M University
College Station, Texas
Abstract 40

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 35.5 *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

Registration Hours

Marquis Foyer

Sunday, November 12	10:30 a.m. – 6:00 p.m.
Monday, November 13	7:00 a.m. – 5:00 p.m.
Tuesday, November 14	7:00 a.m. – 5:00 p.m.
Wednesday, November 15	7:00 a.m. – 5:00 p.m.
Thursday, November 16	7:00 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 404-521-0000, the main switchboard of the Atlanta Marriott Marquis. Callers should ask to be connected to the ASTMH registration desk. Faxes can be sent to the hotel at 404-586-6299.

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.

ASTMH 55th Annual Meeting

General Information

Food Functions
The following food functions are included in the registration fee:
- Opening reception (Sunday)
- Student reception (Sunday)
- Meet the Professors student session continental breakfast (Monday)
- Poster session lunches (Monday, Tuesday and Wednesday)
- Coffee breaks

Hotel Information
The Atlanta Marriott Marquis is the headquarters hotel and site of the majority of annual meeting activities. Due to unforeseen construction, some sessions will be held at the Hilton Atlanta Hotel, located directly across the street from the Marriott.

Atlanta Marriott Marquis
265 Peachtree Center Avenue
Atlanta, GA 30303
404-521-0000
Fax: 404-586-6299

Hilton Atlanta Hotel Downtown
255 Courtland Street, N.E.
Atlanta, GA 30303
404-659-2000
Fax: 404-221-6368

Hotel Parking
Parking at the Atlanta Marriott Marquis is currently available for $22 per day, plus taxes for either self-parking or valet parking.

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 55th 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 12	7:30 – 9:30 p.m.
Monday, November 13	9:30 – 10:30 a.m.
	Noon – 1:30 p.m.
	3:00 – 4:00 p.m.
Tuesday, November 14	9:30 – 10:30 a.m.
	Noon – 1:30 p.m.
	3:00 – 4:00 p.m.
Wednesday, November 15	9:30 – 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 on the Garden Level South (dining level above lobby level). As a courtesy to other attendees, we ask that you limit your computer use to ten minutes per visit.

Wednesday and Thursday Coffee Breaks at the Hilton Hotel
On Wednesday and Thursday, some sessions will be held at the Atlanta Hilton, directly across the street from the Atlanta Marriott Marquis. Coffee breaks at the Hilton for Wednesday and Thursday will be stationed on the second floor pre-function area.

Press Room
The press room is located in the Calgary Room on the Convention Level. ASTMH press kits are available. Press announcements and other details can be found in the Calgary Room. Press room hours of operation are as follows:

Monday, November 13	8 a.m. – 6 p.m.
Tuesday, November 14	8 a.m. – 6 p.m.
Wednesday, November 15	8 a.m. – 6 p.m.
Thursday, November 16	8 a.m. – 2 p.m.

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

Career Center
Our new online Career Center is now available at www.astmh.org, featuring 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 now set up an account, post open positions on the ASTMH Web site, buy classified ad space in the 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 and 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.

AJTMH Symposium

Mid-Day Session 21A
Monday, November 13
12:15 – 1:15 p.m.
Copenhagen/Stockholm/Amsterdam

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.

Stop by the ASTMH booth in the exhibit hall to view sample copies of the journal, or to see a demonstration of the journal's submission/review site and *AJTMH* Online.

Special Events for Students, Fellows and Residents

Student Reception

Sunday, November 12
4 – 5 p.m.
10th Floor Foyer

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
Fireside Chat: Personal Experiences, Words of Wisdom and Institutional Perspectives
Monday, November 13
7 – 8 a.m.
International 5/6

Designed for students and trainees as the next generation of tropical medicine leaders, a panel of professors will share information on their backgrounds, weaving their life experiences in tropical medicine from undergraduate days through their current activities, incorporating their favorite science along the way. Breakfast will be served.

Program Information

Late Breaker Abstracts

Late Breakers in Clinical Tropical Medicine
Monday, November 13
7 – 9 p.m.
Copenhagen/Stockholm/Amsterdam

Late Breakers in Basic Science/Molecular Biology
Monday, November 13
7 – 9 p.m.
Marquis 1

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. A special student session will be held on Monday at 7 a.m. Other sessions will be held on Monday, Tuesday and Wednesday from 12:15 - 1:15 p.m. The sessions are open to all meeting participants and lunch 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.

Poster Sessions

International Level and Skyline Level/10th Floor

Three poster sessions will be held at the ASTMH 55th Annual Meeting on the International Level (exhibit hall level) and Skyline Level (10th 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.

Poster Session Schedule

Poster Session A
Setup:
Monday, November 13
9:45 a.m. – 10:15 a.m.
Viewing:
Monday, November 13
10:15 a.m. – Noon
1:30 p.m. – 7:00 p.m.
Presentations:
Monday, November 13
Noon – 1:30 p.m.
Dismantle:
Monday, November 13
7:00 p.m. – 8:00 p.m.

Poster Session B
Setup:
Tuesday, November 14
9:45 a.m. – 10:15 a.m.
Viewing:
Tuesday, November 14
10:15 a.m. – Noon
1:30 p.m. – 7:00 p.m.
Presentations:
Tuesday, November 14
Noon – 1:30 p.m.
Dismantle:
Tuesday, November 14
7:00 p.m. – 8:00 p.m.

Poster Session C
Setup:
Wednesday, November 15
9:45 a.m. – 10:15 a.m.
Viewing:
Wednesday, November 15
10:15 a.m. – Noon
1:30 p.m. – 7:00 p.m.
Presentations:
Wednesday, November 15
Noon – 1:30 p.m.
Dismantle:
Wednesday, November 15
7:00 p.m. – 8:00 p.m.

Workers in Tropical Medicine Video Sessions

Take note of the following sessions highlighting prominent workers in tropical medicine:

Mid-Day Session 65

Workers in Tropical Medicine Video: "Karl M. Johnson, MD: Life and Legend of a Leader in Tropical Virology"

Tuesday, November 14, 12:15 p.m. – 1:15 p.m.
International 4

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.

Mid-Day Session 103

Workers in Tropical Medicine Video: "The Life and Work of Bill Collins: A Laboratorian's 50-Year Battle against Malaria"

Wednesday, November 15, 12:15 p.m. – 1:15 p.m.
International 4

This 50-minute video features an interview of William Collins by Mark Eberhard. Dr. Collins discusses the past, present and future of malaria research, including his 50 years of contributions to the field. Produced by the Centers for Disease Control and Prevention.

Workers in Tropical Medicine

Video Presentation
Marquis Foyer

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

International B/C

Audiovisual preview and submission facilities are provided beginning Saturday, November 11 at noon in the International B/C room, located on the International Level (exhibit hall level).

All oral presentations must use PowerPoint. Slides and overheads are not permitted, as slide projectors and overhead projectors will not be available at the annual meeting.

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.

Special Notice for Hilton Presenters
For speakers scheduled to present in a meeting room at the Hilton on Wednesday or Thursday, note that **there is NOT a Speaker Ready Room at the Hilton.** It is very important that you visit the Speaker Ready Room at the Marriott 24 hours prior to your session in order to drop off your presentation disk with an AV technician.

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.

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 11	Noon – 5 p.m.
Sunday, November 12	7 a.m. – 6 p.m.
Monday, November 13	7 a.m. – 6 p.m.
Tuesday, November 14	7 a.m. – 6 p.m.
Wednesday, November 15	7 a.m. – 6 p.m.
Thursday, November 16	7 a.m. – Noon

MARK YOUR CALENDAR!

ASTMH 56th Annual Meeting November 4–8, 2007

Philadelphia Marriott Downtown
Philadelphia, Pennsylvania USA

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

Marquis 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. The original tapes of the interviews have been converted to DVD format. A viewing station in the Marquis 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 Tuesday, November 14 at 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.

ASTMH 55th Annual Meeting


William C. Reeves


Jordi Casals-Ariet


Thomas P. Monath


Karl F. Meyer


Albert Sabin

Detailed Program/Pre-Meeting Courses

Friday, November 10

Pre-Meeting Course Registration

100 Years of *Rickettsia*: Howard Taylor Ricketts Centennial Commemorative

Knockouts (and Knock-Ins) in Parasites: Promises and Challenges

Marquis Foyer

Friday, November 10 4:00 p.m. – 6:00 p.m.

Saturday, November 11

Speaker Ready Room Open

International B/C

Saturday, November 11 Noon – 5:00 p.m.

Pre-Meeting Course Registration:

Knockouts (and Knock-Ins) in Parasites: Promises and Challenges

Marquis Foyer

Saturday, November 11 7:00 a.m. – 10:00 a.m.

Registration for ASTMH Certificate of Knowledge Examination

Marquis 4

Saturday, November 11 7:00 a.m. – 8:00 a.m.

ASTMH Certificate of Knowledge Examination

Marquis 4

Saturday, November 11 8:00 a.m. – Noon

Parasitology Pre-Meeting Course:

Knockouts (and Knock-Ins) in Parasites: Promises and Challenges

Marquis 2

Saturday, November 11 8:30 a.m. – 4:30 a.m.

This one-day workshop will target scientists, physicians, clinicians, graduate students and educators with interests in the rapidly evolving field of transfection technologies and gene disruption in parasites of tropical disease importance. Topics will include an overview of transfection technologies, disrupting or adding gene function and future approaches to manipulating gene function in complex organisms such as parasites. The course will benefit those who want to stay abreast of recent advances in the understanding of the transfection and gene regulation technologies.

8:30 a.m.

LIGHT CONTINENTAL BREAKFAST

9 a.m.

INTRODUCTION — COURSE GOALS AND OUTLINE

Daniel J. Carucci

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

9:30 a.m.

OVERVIEW OF TRANSFECTION TECHNOLOGIES I: GENE KNOCKOUT/GENE MODIFICATION

Andrew Waters

Leiden University Medical Centre, Leiden, The Netherlands

10:30 a.m.

OVERVIEW OF TRANSFECTION TECHNOLOGIES II: TRANSGENE EXPRESSION (GFP/INDUCIBLE EXPRESSION)

Brendan Crabb

Walter & Eliza Hall Institute of Medical Research, Parkville, Victoria, Australia

11:15 a.m.

NON-TRANSFORMATION-BASED SYSTEMS

Elisabetta Ullu

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

Noon

LUNCH ON YOUR OWN

1:30 p.m.

LEISHMANIA

Stephen Beverley

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

2:15 p.m.

TOXOPLASMA

David Sibley

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

3 p.m.

PLASMODIUM

David Fidock

Albert Einstein College of Medicine, Bronx, NY, United States

3:45 p.m.

PANEL DISCUSSION

Pre-Meeting Course Registration:

100 Years of *Rickettsia*: Howard Taylor Ricketts Centennial Commemorative

Marquis Foyer

Saturday, November 11 11:00 a.m. – 1:30 p.m.

100 Years of *Rickettsia*: Howard Taylor Ricketts Centennial Commemorative

Supported with funding from Focus Diagnostics, Inc. and Panbio Inc.

Marquis 1

Saturday, November 11 1:00 p.m. – 5:30 p.m.

This two-day seminar commemorates the 100th anniversary of Ricketts' first publication describing the "virus" of Rocky Mountain spotted fever in ticks in the Bitterroot Valley of western Montana. The major goals of the seminar are to review the historical record of Ricketts' discoveries and to detail the major advances that have occurred since his discovery in the field that now bears his name: rickettsiology. Included will be in-depth discussions of old and new clinical disease entities, pathogenic mechanisms of *rickettsiae* and related bacteria, vector biology, diagnosis, preventive measures, and immunity and vaccine development.

1 p.m.

INTRODUCTION — COURSE GOALS AND OUTLINE

J. Stephen Dumler

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

David Walker

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

1:10 p.m.

RICKETTS' CONTRIBUTIONS TO SCIENCE: A HISTORY OF RICKETTSIOLOGY

Victoria Harden

National Institutes of Health, Bethesda, MD, United States

2 p.m.

ROCKY MOUNTAIN SPOTTED FEVER (*RICKETTSIA RICKETTSII*)

Daniel J. Sexton

Duke University Medical Center, Durham, NC, United States

2:45 p.m.

MEDITERRANEAN SPOTTED FEVER (*RICKETTSIA CONORII*)

Phillippe Brouqui

Unite des Rickettsies, Marseille, France

3:30 p.m.

BREAK

4 p.m.

RICKETTSIAL DISEASES AND ACUTE PYREXIAS OF UNKNOWN ORIGIN IN THE TROPICS MURINE TYPHUS (*RICKETTSIA TYPHI*) AND SCRUB TYPHUS (*ORIENTIA TSUTSUGAMUSHI*)

Khachornsakdi Silpapojakul

Prince of Songkhla University, Hat Yai, Songkhla, Thailand

5 p.m.

***RICKETTSIAL* INFECTIONS IN TRAVELERS**

Daniel J. Sexton

Duke University Medical Center, Durham, NC, United States

100 Years of *Rickettsia:* Howard Taylor Ricketts Centennial Commemorative

Marquis 1

Sunday, November 12 7:30 a.m. – 3:00 p.m.

7:30 a.m.

LIGHT CONTINENTAL BREAKFAST

8 a.m.

LOUSE-BORNE TYPHUS (*RICKETTSIA PROWAZEKI*)

David Walker

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

8:45 a.m.

DERMACENTOR-BORNE NECROSIS AND LYMPHADENOPATHY (DEBONEL)

Jose A. Oteo

Hospital de La Rioja, Logrono (La Rioja), Spain

9:30 a.m.

***EHRLICHIOSIS* AND RELATED *RICKETTSIAL* INFECTIONS**

J. Stephen Dumler

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

10 a.m.

BREAK

10:30 a.m.

PATHOGENESIS OF *RICKETTSIAL* INFECTIONS

David Walker

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

11:15 a.m.

BIOLOGY OF VECTOR-*RICKETTSIAE* INTERACTIONS

Kenneth Gage

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

Noon

LUNCH ON YOUR OWN

1:30 p.m.

***RICKETTSIAL* IMMUNITY AND VACCINES**

Gustavo Valbuena

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

2 p.m.

DIAGNOSIS OF *RICKETTSIAL* INFECTIONS

J. Stephen Dumler

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

2:30 p.m.

EPIDEMIOLOGY AND PREVENTION OF *RICKETTSIAL* INFECTIONS

James E. Childs

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

Sunday, November 12

Speaker Ready Room Open

International B/C

Sunday, November 12 7:00 a.m. – 6:00 p.m.

ASTMH Council Meeting

Summit

Sunday, November 12 8:00 a.m. – 3:30 p.m.

Registration

Marquis Foyer

Sunday, November 12 10:30 a.m. – 6:00 p.m.

Cyber Café Open

Garden Level South

Sunday, November 12 1:00 p.m. – 6:00 p.m.

ACAV SIE Subcommittee

Room 3829

Sunday, November 12 11:00 a.m. – Noon

Young Investigator Award Presentations

In Honor of William A. Petri, Sr.

Supported with funding from TechLab Inc.

ASTMH will present the Young Investigator Award to outstanding young researchers during the 55th Annual Meeting. This award encourages developing young scientists to pursue careers in various aspects of tropical disease research.

Young Investigator Award Session A

Copenhagen/Stockholm/Amsterdam

Sunday, November 12 11:00 a.m. – 3:30 p.m.

CHAIR

Caryn Bern

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

Stephen Davies

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

W. Evan Secor

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

11 a.m.

990

MODULATION OF EARLY HUMAN IMMUNE RESPONSES BY *LEISHMANIA CHAGASI*

Nicholas A. Ettinger[1], Mary Wilson[2]

[1]University of Iowa Carver College of Medicine, Interdisciplinary Program in Cellular and Molecular Biology/Medical Scientist Training Program, Iowa City, IA, United States, [2]University of Iowa and the VAMC, Iowa City, IA, United States

11:15 a.m.

288

IS NALIDIXIC ACID-RESISTANCE LINKED TO CLINICAL VIRULENCE IN *SALMONELLA ENTERICA* SEROTYPE *TYPHI* INFECTIONS?

Tamilarasu Kadhiravan, Naveet Wig, K. Renuka, Arti Kapil, Sushil K. Kabra, Anoop Misra

All India Institute of Medical Sciences, New Delhi, India

11:30 a.m.

66

PRAZIQUANTEL BINDS *SCHISTOSOMA MANSONI* ADULT WORM ACTIN

Hatem A. Tallima, Rashika El Ridi

Cairo University, Faculty of Science, Cairo, Egypt

11:45 a.m.

73

CASE-CONTROL AND RETROSPECTIVE-COHORT STUDIES IN OUTBREAK INVESTIGATIONS, 1986-2005: AN UPDATE OF A CLASSICAL STUDY

Andres G. Lescano, Joshua M. Michaud, Gabriela Salmon-Mulanovich, Victor Gonzaga, David L. Blazes

US Naval Medical Research Center Detachment (NMRCD), APO AA, United States

Noon

136

HIGH PREVALENCE OF ENTEROAGGREGATIVE *ESCHERICHIA COLI* (EAEC) IN AIDS PATIENTS WITH DIARRHEA IN HAITI

Kathryn Dupnik[1], Rebecca Dillingham[1], Paul Leger[2], Carole Anne Beauharnais[2], Leah Barrett[1], Daniel W. Fitzgerald[3], Richard L. Guerrant[1]

[1]University of Virginia, Charlottesville, VA, United States, [2]GHESKIO Centers, Port au Prince, Haiti, [3]Weill Medical College, Cornell University, New York, NY, United States

12:15 p.m.

715

LINKING LANDSCAPE ECOLOGY AND *ECHINOCOCCUS MULTILOCULARIS* TRANSMISSION IN CHINA

D. Pleydell[1], F. Raoul[1], A. Vaniscotte[1], P. Torgerson[2], F. M. Danson[3], Q. Wang[4], J. Qiu[4], P. S. Craig[3], P. Giraudoux[1]

[1]Université de Franche-Comté, Besançon, France, [2]Universität Zürich, Zurich, Switzerland, [3]University of Salford, Greater Manchester, United Kingdom, [4]Sichuan Provincial Center for Disease Control and Prevention, Chengdu, China

12:30 p.m.

1103

HUMAN HOOKWORM VACCINE TRIAL: MODELING TRIAL EFFICACY AND HEALTH IMPACT

Lorenzo Sabatelli[1], Azra Ghani[1], Peter Hotez[2], Laura Rodrigues[1], Simon Brooker[1]

[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]The George Washington University, Washington, DC, United States

12:45 p.m.

685

***LEISHMANIA CHAGASI* T CELL ANTIGENS IDENTIFIED THROUGH A DOUBLE LIBRARY SCREEN**

Daniella R. Martins[1], Selma M. Jeronimo[2], John E. Donelson[3], Mary E. Wilson[4]

[1]Federal Univerity of Rio Grande do Norte, Natal, RN, Brazil, [2]Federal Univerity of Rio Grande do Norte, Natal, Brazil, [3]University of Iowa, Iowa City, IA, United States, [4]University of Iowa and VAMC, Iowa City, IA, United States

1 p.m. – 1:30 p.m.

BREAK

1:30 p.m.

207

A FUNCTIONAL POLYMORPHISM IN THE MACROPHAGE MIGRATION INHIBITORY FACTOR PROMOTER (MIF -173 G/C) INCREASES SUSCEPTIBILITY TO HIGH DENSITY PARASITEMIA IN CHILDREN WITH *PLASMODIUM FALCIPARUM* MALARIA

Gordon A. Awandare[1], Collins Ouma[2], Yamo Ouma[2], Christopher C. Keller[1], Tom Were[2], Richard O. Otieno[2], Gregory C. Davenport[1], James B. Hittner[3], John Michael On'gecha[2], Robert R. Ferrell[4], Douglas J. Perkins[1]

[1]University of Pittsburgh Graduate School of Public Health, Department of Infectious Diseases and Microbiology, Pittsburgh, PA, United States, [2]University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Center for Vector Biology and Control Research, Kisumu, Kenya, [3]Department of Psychology, College of Charleston, Charleston, SC, United States, [4]University of Pittsburgh Graduate School of Public Health, Department of Human Genetics, Pittsburgh, PA, United States

1:45 p.m.

562

DIVERSITY OF TLR SNPS IN MALARIA ENDEMIC AREAS

Jennifer Greene, Christopher Yohn, Ann Moormann, Peter Zimmerman, James Kazura

Case Western Reserve University, Cleveland, OH, United States

2 p.m.

1102

INVASION INHIBITION OF *P.VIVAX* BY ANTI-DUFFY BINDING PROTEIN ANTIBODIES

Brian Grimberg[1], Rachanee Udomsangpetch[2], Jia Xianli[1], Kara Martin[1], Tasanee Panichakul[2], John Erickson[1], Christopher L. King[1], Peter A. Zimmerman[1]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Mahidol University, Bangkok, Thailand

2:15 p.m.

905

SPATIAL DISTRIBUTION OF INSECTICIDE-TREATED NETS: IMPLICATIONS FROM A TRANSMISSION MODEL FOR THE DESIGN AND EVALUATION OF INTERVENTIONS

Manish A. Desai[1], Jospeph N. Eisenberg[2]

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

2:30 p.m.

625

MOLECULAR EPIDEMIOLOGY OF CRYPTOSPORIDIOSIS IN CHILDREN IN KENYA

Wangeci Gatei[1], C.A. Hart[2], C. Mbae[3], N. Wamae[3], E. Mulinge[3], M. Nderitu[3], S.K Kamwati[3], G. Revathi[4], Lihua Xiao[5]

[1]Centers for Disease Control and Prevention-AREF, Atlanta, GA, United States, [2]University of Liverpool, Liverpool, United Kingdom, [3]Kenya Medical Research Institute, Nairobi, Kenya, [4]Kenyatta National Hospital, Nairobi, Kenya, [5]Centers for Disease Control and Prevention, Atlanta, GA, United States

2:45 p.m.

735

LIVER FIBROSIS ASSOCIATED WITH EXPERIMENTAL *FASCIOLA HEPATICA* INFECTION: *IN VIVO* AND *IN VITRO* STUDIES

Luis A. Marcos[1], Angelica Terashima[2], Pedro Yi[3], Rosangela Teixeira[4], Javier Cubero[5], Carlos Alvarez[5], Marco Canales[2], Patricia Herrera[6], Eduardo Gotuzzo[2], Jose R. Espinoza[6], Scott L. Friedman[5], Effsevia Albanis[5]

[1]Liver Disease Center, Mount Sinai School of Medicine, New York, NY, UNITED STATES; Institute of Tropical Medicine Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Institute of Tropical Medicine Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Facultad de Veterinaria y Zootecnia, Universidad Peruana Cayetano Heredia, Lima, Peru, [4]School of Medicine/ IAG-Federal University of Minas Gerais, Minai Gerais, Brazil, [5]Liver Disease Center, Mount Sinai School of Medicine, New York, NY, United States, [6]Laboratorios de Investigación y Desarrollo, Universidad Peruana Cayetano Heredia, Lima, Peru

3 p.m.

26

THE EFFECT OF PRAZIQUANTEL TREATMENT ON IMMUNE RESPONSES AGAINST *SCHISTOSOMIASIS MANSINI* DURING PREGNANCY: CYTOKINE AND ANTIBODY RESPONSES IN PREGNANT WOMEN AND THEIR INFANTS

Robert Tweyongyere[1], Patrice A. Mawa[2], Proscovia B. Namujju[2], Frances M. Jones[3], Juliet Ndibazza[2], Nicholas Omoding[2], Lawrwnce Muhangi[2], Narcis B. Kabatereine[4], Birgitte J. Vennervald[5], David W. Dunne[3], Eli Katunguka-Rwakishaya[6], Alison M. Elliott[7]

[1]Makerere University, Cambridge, United Kingdom, [2]Medical Research Council/Uganda Virus Research Institute Uganda Research Unit on AIDS, Kampala, Uganda, [3]University of Cambridge, Department of Pathology, Cambridge, United Kingdom, [4]Vector Control Division, Ministry of Health, Kampala, Uganda, [5]Denish Bilharzia Laboratory - Institute for Health Research and Development, Copenhagen, Denmark, [6]Makerere University, Kampala, Uganda, [7]London School of Hygiene and Tropical Medicine, London, United Kingdom

3:15 p.m.

18

DIFFERENTIAL GENE EXPRESSION BETWEEN M AND S FORMS OF *ANOPHELES GAMBIAE*

Bryan J. Cassone[1], Matthew W. Hahn[2], Karine Mouline[1], Bradley J. White[1], Nora J. Besansky[1]

[1]University of Notre Dame, Notre Dame, IN, United States, [2]Indiana University, Bloomington, IN, United States

Young Investigator Award Session B

Sydney/Zurich

Sunday, November 12 11:00 a.m. – 3:30 p.m.

CHAIR

Brenda T. Beerntsen

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

Michael S. Diamond

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

Nicholas Komar

Centers for Disease Control and Prevention, Fort Collins, CO, United States

11 a.m.

459

LARVAL COMPETITION AFFECTS DENGUE VIRUS INFECTION IN ADULT *AEDES AEGYPTI* AND *A. ALBOPICTUS*

Barry W. Alto, L. Philip Lounibos, Christopher N. Mores, Michael H. Reiskind

University of Florida, Vero Beach, FL, United States

11:15 a.m.

1040

DISPLACEMENT OF THE INTRODUCED GENOTYPE OF WEST NILE VIRUS IN NEW YORK STATE

Robin M. Moudy, Alan Dupuis, Gregory D. Ebel, Laura D. Kramer

Arbovirus Laboratories, Wadsworth Center, Slingerlands, NY, United States

11:30 a.m.

1046

PRELIMINARY INVESTIGATION INTO THE COMPARATIVE EFFICACY OF THREE WEST NILE VIRUS (WNV) VACCINES IN EXPERIMENTALLY INDUCED WNV CLINICAL DISEASE IN HORSES

Kathy K. Seino

University of Florida, Gainesville, FL, United States

11:45 a.m.

223

CLONING AND CHARACTERIZATION OF TWO NOVEL CARBONIC ANHYDRASES FROM THE LARVAL *ANOPHELES GAMBIAE* MIDGUT

Kristin E. Smith, Paul J. Linser

University of Florida Whitney Laboratory, Saint Augustine, FL, United States

Noon

15

DISTRIBUTION OF TWO ESSENTIAL AMINO ACID TRANSPORTERS IN THE LARVAL ALIMENTARY CANAL OF THE AFRICAN MALARIA MOSQUITO *AN. GAMBIAE* (DIPTERA: CULICIDAE)

Bernard A. Okech, William R. Harvey, Dmitri Y. Boudko

Whitney Laboratory for Marine Bioscience, University of Florida, St. Augustine, FL, United States

12:15 p.m.

1013

PATTERN RECOGNITION DIVERSITY IN THE *ANOPHELES GAMBIAE* INNATE IMMUNE SYSTEM

Yuemei Dong, George Dimopoulos

The Johns Hopkins University, Baltimore, MD, United States

12:30 p.m.

230

DISTRIBUTION OF *CULEX PIPIENS* COMPLEX IN MEXICO CITY AND THE POTENTIAL OF WEST NILE

Alvaro Diaz-Badillo[1], Jorge P. Martinez-Muñoz[2], Barry Beatty[3], William Black[3], María de Lourdes Muñoz[1]

[1]Department of Genetics and Molecular Biology, Centro de Investigación y de Estudios Avanzados del IPN, Mexico City, Mexico, [2]Laboratorio Estatal de Salud Pública del Estado de Oaxaca, Oaxaca City, Mexico, [3]Department of Microbiology, Immunology, and Pathology, Colorado State University, Fort Collins, CO, United States

12:45 p.m.

1014

POPULATION GENOMICS OF CHROMOSOMAL INVERSIONS IN *ANOPHELES GAMBIAE*

Bradley J. White[1], Matthew W. Hahn[2], Karine Mouline[1], Bryan J. Cassone[1], Marco Pombi[3], Frederic Simard[4], Allesandra della Torre[3], Nora J. Besansky[1]

[1]University of Notre Dame, Notre Dame, IN, United States, [2]University of Indiana, Bloomington, IN, United States, [3]University of Rome La Sapienza, Rome, Italy, [4]IRD-UR016/OCEAC, Yaounde, Cameroon

1 p.m. – 1:30 p.m.

BREAK

1:30 p.m.

19

GENETIC LINKAGE MAPPING AND EVIDENCE OF POPULATION EXPANSION IN THE WEST NILE VIRUS VECTOR CULEX TARSALIS

Meera Venkatesan[1], M. Claire Hauer[1], Catherine J. Westbrook[2], Jason L. Rasgon[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Walter Reed Army Institute of Research, Silver Spring, MD, United States

1:45 p.m.

911

ALTERNATIVE SPLICING OF THE *AEDES TRISERIATUS* INHIBITOR OF APOPTOSIS 1 (ATIAP1) GENE

Eric T. Beck, Bradley J. Blitvich, Carol D. Blair, Barry J. Beaty

Colorado State University, Fort Collins, CO, United States

2 p.m.

729

VARIATION IN VECTOR COMPETENCE FOR DENGUE 2 VIRUS AMONG COLLECTIONS OF *AEDES AEGYPTI* FROM THE YUCATAN AND VERA CRUZ REGIONS OF MEXICO

Scott A. Bernhardt[1], William C. Black[1], Barry J. Beaty[1], Michael F. Antolin[1], Ken E. Olson[1], Jose A. Farfan-Ale[2], Ildefonso Fernandez-Salas[3], Carol D. Blair[1]

[1]Colorado State University, Fort Collins, CO, United States, [2]Universidad Autonoma de Yucatan, Merida, Mexico, [3]Universidad Autonoma de Nuevo Leon, Monterrey, Mexico

2:15 p.m.

253

IMPLICATIONS OF HYBRIDIZATION, FEEDING BEHAVIOR AND PARITY RATES OF *CULEX PIPIENS* ON WEST NILE VIRUS ACTIVITY AT A STABLE ENZOOTIC STUDY SITE

Linda-Lou O'Connor[1], John B. Gingrich[1], Dina Fonseca[2], Thomas R. Unnasch[3]

[1]University of Delaware, Newark, DE, United States, [2]Academy of Natural Sciences, Philadelphia, PA, United States, [3]University of Alabama at Birmingham, Birmingham, AL, United States

2:30 p.m.

277

DEVELOPMENT AND CHARACTERIZATION OF RECOMBINANT ARENAVIRUS PROTEINS AND VIRUS-SPECIFIC MONOCLONAL ANTIBODIES FOR USE IN DIAGNOSTIC AND THERAPEUTIC APPLICATIONS: AN INTEGRATED APPROACH TO PUBLIC HEALTH AND BIODEFENSE

Joseph N. Fair[1], Luis Branco[2], Darryl Sampey[2], Alex Matschiner[2], Corina Monagin[3], Kathleen Cashman[4], Philip Ferro[4], Augustin Goba[5], Daniel Bausch[3], Russell Wilson6, Robert Garry[3], Mary Guttieri[4]

[1]Tulane University, Ft. Detrick, MD, United States, [2]Biofactura, INC, Rockville, MD, United States, [3]Tulane University, New Orleans, LA, United States, [4]USAMRIID, Ft. Detrick, MD, United States, [5]Lassa Fever Laboratory, Kenema Government Hospital, Kenema, Sierra Leone, [6]Autoimmune Technologies, INC, New Orleans, LA, United States

2:45 p.m.

665

A ROLE FOR THE CRIMEAN-CONGO HAEMORRHAGIC FEVER VIRUS (CCHFV) NUCLEOPROTEIN IN MEDIATING PARTICLE ASSEMBLY AND RELEASE

Adrienne F. Meyers[1], Paul Hazelton[2], Hideki Ebihara[3], Martin J. Vincent[4], Stuart T. Nichol[4], Heinz Feldmann[5], Harvey Artsob[5]

[1]Public Health Agency of Canada, University of Manitoba, Winnipeg, MB, Canada, [2]University of Manitoba, Winnipeg, MB, Canada, [3]Japan Science and Technology Agency, Saitama, Japan, [4]Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]Public Health Agency of Canada, Winnipeg, MB, Canada

3 p.m.

659

CONSUMPTION OF BATS IS A RISK FACTOR FOR EBOLA VIRUS INFECTION AMONG RURAL CAMEROONIAN ADULTS

Mark H. Kuniholm[1], Cynthia A. Rossi[2], Eitel Mpoudi-Ngole[3], Ubald Tamoufe[4], Matthew LeBreton[4], Anne W. Rimoin[5], Daniel G. Bausch[6], Donald S. Burke[1], Nathan D. Wolfe[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]U.S. Army Medical Research Institute of Infectious Diseases, Frederick, MD, United States, [3]Army Health Research Center, Yaounde, Cameroon, [4]Johns Hopkins Cameroon Program, Yaounde, Cameroon, [5]University of California Los Angeles School of Public Health, Los Angeles, CA, United States, [6]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

3:15 p.m.

660

CHARACTERIZATION OF MARBURG VIRUS FROM A RECENT OUTBREAK IN ANGOLA

Darryl Falzarano[1], Friederike Feldmann[2], Sandra Martin[2], Joan Geisbert[3], Allen Grolla[2], Lisa Fernando[2], Ute Ströher[2], Hideki Ebihara[4], Jim Strong[2], Steven Jones[2], Heinz Feldmann[2], Thomas W. Geisbert[3]

[1]Department of Medical Microbiology, University of Manitoba, Winnipeg, MB, Canada, [2]Special Pathogens Program, National Microbiology Laboratory, Winnipeg, MB, Canada, [3]Virology Division, United States Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States, [4]Institute of Medical Science, University of Tokyo, Tokyo, Japan

Young Investigator Award Session C

Marquis 2

Sunday, November 12 11:00 a.m. – 3:30 p.m.

CHAIR
Roland A. Cooper
Old Dominion University, Norfolk, VA, United States

Michael Ferdig
University of Notre Dame, Notre Dame, IN, United States

Julian C. Rayner
University of Alabama at Birmingham, Birmingham, AL, United States

11 a.m.

915

PHYLOGEOGRAPHY OF THE NEOTROPICAL MALARIA VECTOR *ANOPHELES DARLINGI* USING MITOCHONDRIAL AND NUCLEAR DNA: IMPLICATIONS FOR ITS SPECIES STATUS AND CONTINENTAL-SCALE BIOGEOGRAPHY

Lisa Mirabello, Jan E. Conn
State University of New York at Albany, Slingerlands, NY, United States

11:15 a.m.

986

PHENOTYPIC VARIATION IN *P. FALCIPARUM* INVASION OF ERYTHROCYTES IS A MECHANISM OF IMMUNE EVASION

Kristina E. Persson[1], Fiona J. McCallum[1], Linda Reiling[1], Janine Stubbs[1], Nicole Lister[1], Thomas Williams[1], Kevin Marsh[2], Alan F. Cowman[1], James G. Beeson[1]
[1]The Walter and Eliza Hall Institute of Medical Research, Melbourne, Victoria, Australia, [2]Centre for Geographic Medicine Research, Coast, Kenya Medical Research Institute, Kilifi, Kenya

11:30 a.m.

297

MULTIPLE INDEPENDENT ORIGINS OF ATOVAQUONE-PROGUANIL *FALCIPARUM* RESISTANCE

Lise Musset[1], Jacques Le Bras[2], Jérôme Clain[3]
[1]Hopital Bichat Claude Bernard, Paris Cedex, France, [2]Hopital Bichat Claude Bernard, Paris, France, [3]Université Paris, Paris, France

11:45 a.m.

294

DISRUPTION OF *PLASMODIUM* TRANSCRIPTION FACTOR *HMGB2* IMPAIRS OOCYST FORMATION

Mathieu Gissot[1], Li-Min Ting[1], Photini Sinnis[2], Kami Kim[1]
[1]Albert Einstein College of Medicine, Bronx, NY, United States, [2]New York University School of Medicine, New York, NY, United States

Noon

40

GENETIC CHARACTERIZATION OF *TRYPANOSOMA CRUZI* ISOLATES FROM *TRIATOMA* SPP. IN THE UNITED STATES BASED ON SSU RIBOSOMAL RNA GENE SEQUENCES

Sonia A. Kjos[1], Joseph J. Gillespie[2], Kathleen S. Logan[1], Jimmy K. Olson[1], Karen F. Snowden[1]
[1]Texas A&M University, College Station, TX, United States, [2]Virginia Bioinformatics Institute at Virginia Tech, Blacksburg, VA, United States

12:15 p.m.

339

L-ARGININE INFUSION INCREASES NO PRODUCTION AND REVERSES ENDOTHELIAL DYSFUNCTION IN ADULTS WITH MODERATELY SEVERE FALCIPARUM MALARIA IN PAPUA, INDONESIA

TW Yeo[1], DA Lampah[2], E. Kenangalem[3], R. Gitawati4, E. Tjitra[4], Y. McNeil[1], D. Granger[5], B. Lopansri[5], D. Celermajer[6], RN Price[7], S. Duffull[8], NM Anstey[1]
[1]Menzies School of Health Research, Darwin, Australia, [2]National Institutes of HealthRD-MSHR Research Programme, Timika, Indonesia, [3]Dinas Kesehatan Kabupaten, Mimika, Indonesia, [4]National Institute of Health Research and Development, Jakarta, Indonesia, [5]University of Utah, Salt Lake City, UT, United States, [6]University of Sydney, Syndey, Australia, [7]Oxford University, Oxford, United Kingdom, [8]University of Queensland, Brisbane, Australia

12:30 p.m.

1082

USING TREATMENT FAILURE TO SCREEN FOR MDR TB IS ASSOCIATED WITH RECURRENCE, DEATH, AND TRANSMISSION

Jonathan M. Sherman[1], Marco Tovar[2], Robert H. Gilman[3], Giselle Soto[4], Luz Caviedes[2], Lilia Cabrera[4], Mirko Zimic[3], Antonio Bernabe[2], Jaime Ortiz[5], Richard Rodriguez[5], Eduardo Ticona[6], Jon S. Friedland[7], Carlton A. Evans[7]
[1]Mayo Medical School, Rochester, MN, United States, [2]Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, [4]Asociación Benefica PRISMA, Lima, Peru, [5]Hospital Maria Auxiliadora, Lima, Peru, [6]Hospital Nacional Dos de Mayo, Lima, Peru, [7]Department of Infectious Diseases and Immunity and Wellcome Trust Centre for Clinical Tropical Medicine, Imperial College, London, United Kingdom

12:45 p.m.

127

RAPID ASSESSMENT METHOD FOR PREVALENCE OF LOIASIS IN PARTS OF THE NIGER DELTA, IMO STATE, NIGERIA: A PRELIMINARY REPORT

Uchechukwu M. Chukwuocha[1], I.N. Dozie[2], B.E. Nowke[2]
[1]Federal University of Technology, Owerri, Nigeria, Owerri, Nigeria, [2]Imo State University, Owerri, Imo State, Nigeria

1 p.m. – 1:30 p.m.

BREAK

1:30 p.m.

999

THE ANTIMALARIAL EFFECT OF HIV NRTIS ON *PLASMODIUM FALCIPARUM*

Dylan R. Pillai, Philip J. Rosenthal, Joseph L. DeRisi

UCSF, San Francisco, CA, United States

1:45 p.m.

537

THE ANTIPARASITIC DIAMIDINE DB75 TARGETS THE *PLASMODIUM FALCIPARUM* NUCLEUS

Anne Purfield[1], Arunima Mukhopadhyay[2], Michael P. Barrett[2], Richard R. Tidwell[1], Steven R. Meshnick[1]

[1]University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, [2]University of Glasgow, Glasgow, United Kingdom

2 p.m.

544

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

Vivian N. Hawkins, Stephanie Suzuki, Carol H. Sibley

University of Washington, Seattle, WA, United States

2:15 p.m.

875

***IN VITRO* SUSCEPTIBILITY OF *PLASMODIUM FALCIPARUM* TO MONODESETHYLAMODIAQUINE, DIHYDROARTEMISININ AND QUININE IN AN AREA OF HIGH CHLOROQUINE RESISTANCE IN RWANDA**

Halidou Tinto[1], Corine Karema[2], Claude Rwagacondo[2], Annette Erhart[3], Umberto d'Alessandro[3]

[1]IRSS/Centre Muraz, Bobo Dioulasso, Burkina Faso, [2]National Malaria Control Programme, Kigali, Rwanda, [3]Institute of Tropical Medicine, Antwerp, Belgium

2:30 p.m.

200

DYNAMICS OF *PLASMODIUM* FALCIPARUM MSP-1_{19} GENETIC DIVERSITY AT A MALARIA VACCINE-TESTING SITE IN MALI

Shannon L. Takala[1], Drissa Coulibaly[2], Mahamadou A. Thera[2], Alassane Dicko[2], David L. Smith[3], Ando B. Guindo[2], Abdoulaye K. Kone[2], Amed Ouattara[1], Abdoulaye Djimde[2], Paul Sehdev[1], Kirsten E. Lyke[1], Dapa A. Diallo[2], Ogobara K. Doumbo[2], Christopher V. Plowe[1]

[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]Malaria Research and Training Center, University of Bamako, Bamako, Mali, [3]Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

2:45 p.m.

201

THE STUDY OF *AN. MINIMUS* DENSITY GREY EVALUATION MODEL

Guowei Yu

University of California Berkeley, School of Public Health, Berkeley, CA, United States

3 p.m.

304

CHANGES IN HUMAN GENE EXPRESSION DURING UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA

James M. Colborn[1], Joni J. Ylostälo[1], Ousmane A. Koita[2], Ousmane H. Cissé[2], Donald J. Krogstad[1]

[1]Tulane University, New Orleans, LA, United States, [2]University of Bamako, Bamako, Mali

Young Investigator Award Session D

Bonn/London

Sunday, November 12 11:00 a.m. – 3:30 p.m.

CHAIR

Christopher L. King

Case Western Reserve University, Cleveland, OH, United States

David Williams

Illinois State University, Normal, IL, United States

Peter Zimmerman

Case Western Reserve University, Cleveland, OH, United States

11 a.m.

646

MOLECULAR DETERMINANTS FOR RECEPTOR SPECIFICITY OF *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN

Amy M. McHenry, John H. Adams

University of Notre Dame, Notre Dame, IN, United States

11:15 a.m.

667

A NOVEL ANTIVECTOR *PLASMODIUM FALCIPARUM* TRANSMISSION-BLOCKING ANTIBODY REVEALS HETEROGENEOUS OOKINETE INVASION STRATEGIES

Rhoel R. Dinglasan[1], Dario E. Kalume[2], Stefan M. Kanzok[1], Anil Ghosh[1], Olga Muratova[3], Akhilesh Pandey[2], Marcelo Jacobs-Lorena[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Johns Hopkins School of Medicine, Baltimore, MD, United States, [3]Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

11:30 a.m.

309

A CONTROLLED TRIAL ON EXTENDED INTERMITTENT PREVENTIVE TREATMENT WITH SULFADOXINE-PYRIMETHAMINE FOR MALARIA CONTROL IN INFANTS IN AN AREA OF INTENSE PERENNIAL TRANSMISSION

Robin Kobbe[1], Christina Kreuzberg[1], Samuel Adjei[2], Benedicta Thompson[3], Iris Langefeld[1], Peter Apia Thompson[3], Harry Hoffman Abruquah[3], Benno Kreuels[1], Matilda Ayim[3], Wibke Busch[1], Florian Marks[1], Kwado Amoah[3], Ernest Opoku[3], Christian G. Meyer[1], Ohene Adjei[3], Jürgen May[1]

[1]Bernhard-Nocht-Institute for Tropical Medicine, Hamburg, Germany, [2]Ministry of Health/Ghana Health Service, District Health Directorate, Agona, Ashanti Region, Ghana, [3]Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana

11:45 a.m.

351

SAFETY AND EFFICACY OF DOXYCYCLINE THERAPY WITH AND WITHOUT SINGLE DOSE ALBENDAZOLE/IVERMECTIN FOR THE TREATMENT OF *MANSONELLA PERSTANS* INFECTION

Yaya I. Coulibaly[1], Benoit Dembele[1], Abdallah A. Diallo[1], Ettie M. Lipner[2], Michael Fay[2], Dapa A. Diallo[1], Mady Sissoko[1], Daniel Yalcoue[1], Ogobara K. Doumbo[1], Abdel K. Traore[3], Thomas B. Nutman[2], Sekou F. Traore[1], Amy D. Klion[2]

[1]University of Mali, Bamako, Mali, [2]National Institutes of Health, Bethesda, MD, United States, [3]National Center for Disease Control, Bamako, Mali

Noon

465

HLA MAY CONTROL VIRUS SEROTYPE SPECIFIC IMMUNITY IN DENGUE INFECTION

Lan P. Nguyen[1], M. Kikuchi[1], Huong Q. Vu[2], Ngu T. Vu[2], Dao N. Hoang[2], Tham D. Vo[3], Dat V. Tran[4], Ha Q. Do[2], T. Oyama[1], K. Morita[1], M. Yasunami[1], K. Hirayama[1]

[1]Institute of Tropical Medicine, Nagasaki City, Japan, [2]Pasteur Institute, Ho Chi Minh City, Vietnam, [3]Pediatric Hospital No.2, Ho Chi Minh City, Vietnam, [4]Center for Preventive Medicine, Vinh Long Province, Vietnam

12:15 p.m.

1091

ROLE OF DC-SIGN AND FCGRII IN ANTIBODY DEPENDENT ENHANCEMENT OF DENGUE INFECTION

Kobporn Boonnak, Bonnie M. Slike, Mary A. Marovich

The Henry M. Jackson Foundation, Rockville, MD, United States

12:30 p.m.

322

CD4 T COUNT AND HIV-1 INFECTION IN PATIENTS WITH UNCOMPLICATED MALARIA

Jean-Pierre Van geertruyden

Prince Leopold Instituut voor Tropische Geneeskunde, Antwerpen, Belgium

12:45 p.m.

996

IMPAIRED CYTOADHERENCE OF *PLASMODIUM FALCIPARUM*-INFECTED ERYTHROCYTES: IMPLICATIONS FOR THE MALARIA PROTECTIVE EFFECT OF SICKLE TRAIT

Rushina Cholera[1], Rick M. Fairhurst[2], Nathaniel J. Brittain[2], Takayuki Arie[2], James A. Dvorak[2], Thomas E. Wellems[2]

[1]Laboratory of Malaria and Vector Research/National Institute of Allergy and Infectious Diseases/National Institutes of Health, N. Bethesda, MD, United States, [2]Laboratory of Malaria and Vector Research/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States

1 p.m. – 1:30 p.m.

BREAK

1:30 p.m.

510

***P. FALCIPARUM* FCR3ΔVAR2CSA MUTANTS—A NOVEL TOOL TO EVALUATE PARASITE LIGANDS INVOLVED IN PLACENTAL MALARIA**

Nicola K. Viebig[1], Artur Scherf[2], Benoit Gamain[2]

[1]Institut Pasteur, Paris Cedex, France, [2]Institut Pasteur, Paris, France

1:45 p.m.

517

SINGLE NUCLEOTIDE POLYMORPHISMS IN TRAP ASSOCIATE WITH SEVERE MALARIAL DISEASE: A NOVEL PARASITE VIRULENCE GENE

Marina Golding[1], Tom Williams[2], Kevin Marsh[2], Adrian Hill[3]

[1]University of Oxford, Oxfordshire, United Kingdom, [2]Kenya Medical Research Institute, Nairobi, Kenya, [3]University of Oxford, Oxford, United Kingdom

2 p.m.

674

THE CLINICAL PRESENTATION OF MALARIA IN AFRICAN PREGNANT WOMEN: CORRELATION OF SYMPTOMS AND SIGNS WITH *PLASMODIUM FALCIPARUM* PARASITAEMIA

Azucena Bardají[1], Catarina David[2], Sonia Amós[3], Cleofé Romagosa[1], María Maixenchs[2], Betuel Sigauque[2], Artemisa Ana Banda[3], Laia Bruni[1], Sergi Sanz[1], John Aponte[1], Pedro L. Alonso[1], Clara Menéndez[1]

[1]International Health Centre, Barcelona, Spain, [2]Manhiça Health Research Centre, Manhiça, Mozambique, [3]Manhiça Health Centre, Manhiça, Mozambique

2:15 p.m.

32

USE OF ULTRASOUND TECHNOLOGY TO INVESTIGATE THE TEMPORAL RELATIONSHIP BETWEEN MATERNAL MALARIA INFECTION AND *IN UTERO* FETAL GROWTH

Sarah H. Landis[1], Joseph Atibu[2], Cande V. Ananth[3], Victor Lokomba[2], Antoinette Tshefu[2], Robert W. Ryder[4], Katherine E. Hartmann[4], Steven R. Meshnick[4]

[1]University of North Carolina-Chapel Hill, Carrboro, NC, United States, [2]University of North Carolina-Democratic Republic of Congo Programme, Kinshasa, Democratic Republic of the Congo, [3]UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ, United States, [4]University of North Carolina-Chapel Hill, Chapel Hill, NC, United States

2:30 p.m.

553

MALARIA AND HELMINTH CO-INFECTION IN A SEMI-URBAN POPULATION OF PREGNANT WOMEN IN UGANDA

Stephen D. Hillier[1], Mark Booth[2], Lawrence Muhangi[3], Macklyn Khihembo[3], Kakande Mohammed[3], Moses Sewankambo[3], Kizindo Robert[3], Moses Kizza[3], Moses Muwanga[4], Mark Bambury[5], Alison Elliott6

[1]The University of Birmingham Medical School, Birmingham, United Kingdom, [2]The University of Cambridge Department of Parasitology, Cambridge, United Kingdom, [3]Medical Research Council/Uganda Virus Research Institute, Entebbe, Uganda, [4]Entebbe Hospitals, Entebbe, Uganda, [5]West Midlands Cancer Intelligence Unit, Birmingham, United Kingdom, [6]London School of Hygiene and Tropical Medicine, London, United Kingdom

2:45 p.m.

354

HUMAN SYNCYTIOTROPHOBLAST CELLS PLAY AN ACTIVE ROLE IN THE IMMUNE RESPONSE TO PLACENTAL MALARIA

Naomi W. Lucchi, David S. Peterson, Julie M. Moore

University of Georgia, Athens, GA, United States

3 p.m.

652

ARTEMISININ DERIVATIVES LOCALIZE WITHIN DIGESTIVE VACUOLE-ASSOCIATED NEUTRAL LIPID BODIES IN *PLASMODIUM FALCIPARUM*

Carmony L. Hartwig[1], Andrew S. Rosenthal[2], Gary H. Posner[2], Roland A. Cooper[1]

[1]Old Dominion University, Norfolk, VA, United States, [2]Department of Chemistry and Malaria Research Institute, Johns Hopkins University, Baltimore, MD, United States

3:15 p.m.

653

INHIBITION OF YEAST HEXOKINASE ACTIVITY BY ARTEMISININ: AN *IN VITRO* MODEL OF DRUG-PROTEIN BINDING

Jennifer S. Spence[1], Jigar Patel[2], Michael T. Ferdig[2], Roland A. Cooper[3]

[1]Old Dominion University, Suffolk, VA, United States, [2]University of Notre Dame, South Bend, IN, United States, [3]Old Dominion University, Norfolk, VA, United States

ACAV SIRACA Subcommittee

Room 3829

Sunday, November 12 Noon – 2 p.m.

ACAV SALS Subcommittee

Room 3829

Sunday, November 12 2:15 p.m. – 3:15 p.m.

ACME Council Meeting

Room 904

Sunday, November 12 3:30 p.m. – 5 p.m.

ACAV Council Meeting

Room 3829

Sunday, November 12 3:30 p.m. – 5:30 p.m.

ACMCIP Council Meeting

Room 907

Sunday, November 12 3:30 p.m. – 5 p.m.

Young Investigator Award Committee

Bonn/London

Sunday, November 12 3:30 p.m. – 5 p.m.

Student Reception

10th Floor Foyer

Sunday, November 12 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 other trainees and interact with society leaders.

Plenary Session I and Society Awards

Marquis Ballroom

Sunday, November 12 5:30 p.m. – 7:30 p.m.

CHAIR

Myron M. Levine

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

Edward T. Ryan

Massachusetts General Hospital, Boston, MA, United States

5:30 p.m.

CHARLES FRANKLIN CRAIG LECTURE

The Charles Franklin Craig Lecture is an honor bestowed on a distinguished worker in the field of tropical medicine.

NEGLECTED DISEASES CONTROL AND THE MILLENNIUM DEVELOPMENT GOALS: TOWARDS EQUITY, ACCESS AND DEMOCRACY FOR THE MAJORITY OF THE POOREST

David Molyneux

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

6:15 p.m.

AWARDS CEREMONY

Hosted by Myron M. Levine
University of Maryland School of Medicine, Baltimore, MD, United States

RECOGNITION AWARD IN GLOBAL HEALTH

Victoria P. McGovern
On behalf of Burroughs Wellcome Fund, Research Triangle Park, NC, United States

Presented by Myron M. Levine
University of Maryland School of Medicine, Baltimore, MD, United States

TRAVEL AWARDS

James LeDuc
Centers for Disease Control and Prevention/National Center for Infectious Diseases, Atlanta, GA, United States

AMERICAN COMMITTEE OF MEDICAL ENTOMOLOGY (ACME) TRAVEL AWARDS

Shirley Luckhart
University of California at Davis, Davis, CA, 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

Michael Good
The Queensland Institute of Medical Research, Herston, Australia

Presented by Stephen L. Hoffman
Sanaria Inc., Rockville, MD, United States

John Horton
Tropical Projects, Hitchin, United Kingdom

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

HARRY HOOGSTRAAL MEDAL

Mario Coluzzi
Universita di Roma, Rome, Italy

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

RICHARD M. TAYLOR AWARD

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

JOSEPH AUGUSTIN LEPRINCE MEDAL

Stephen L. Hoffman
Sanaria Inc., Rockville, MD, United States

Presented by Thomas L. Richie
Naval Medical Research Center, Silver Spring, MD, United States

Thomas E. Wellems
National Institutes of Health/National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

Presented by Louis Miller
National Institutes of Health, Rockville, MD, United States

BAILEY K. ASHFORD MEDAL

Jeremy Farrar
University of Oxford, Hospital for Tropical Diseases, Ho Chi Minh, Vietnam

Presented by Scott B. Halstead
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

Thomas A. Wynn
National Institutes of Health/National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

Presented by Alan Sher
National Institutes of Health/National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States

Opening Reception in the Exhibit Hall

International Level

Sunday, November 12 7:30 p.m. – 9:30 p.m.

Monday, November 13

Registration

Marquis Foyer

Monday, November 13 7:00 a.m. – 5:00 p.m.

Cyber Café

Garden Level South

Monday, November 13 7:00 a.m. – 5:00 p.m.

Speaker Ready Room

International B/C

Monday, November 13 7:00 a.m. – 6:00 p.m.

ASTMH Public Policy Working Group

Room 3908

Monday, November 13 7:00 a.m. – 8:00 a.m.

Clinical Group Council Meeting

Room 3829

Monday, November 13 7:00 a.m. – 8:30 a.m.

Meet the Professors 1

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

International 5/6

Monday, November 13 7:00 a.m. – 8:00 a.m.

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

SERIES ORGANIZER:

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

PANELISTS

Larry Ash

UCLA School of Public Health, Los Angeles, CA, United States

Mary E. Wilson

Harvard University, Boston, MA, United States

Scientific Session 2

Arthropods/Entomology

Sydney/Zurich

Monday, November 13 8:00 a.m. – 9:45 a.m.

CHAIR

Catherine A. Hill

Purdue University, West Lafayette, IN, United States

Daniel E. Sonenshine

Old Dominion University, Norfolk, VA, United States

8 a.m.

1

SEQUENCING THE GENOME OF *IXODES SCAPULARIS* — THE LYME DISEASE TICK

Catherine A. Hill[1], Vishvanath M. Nene[2], Bruce Birren[3], Stephen K. Wikel[4], Frank H. Collins[5]

[1]Purdue University, West Lafayette, IN, United States, [2]The Institute for Genomic Research, Rockville, MD, United States, [3]The Broad Institute, Cambridge, MA, United States, [4]University of Connecticut Health Center, Farmington, CT, United States, [5]The University of Notre Dame, Notre Dame, IN, United States

8:15 a.m.

2

A BORRELIACIDAL FACTOR FOUND IN THE SALIVA OF *AMBLYOMMA AMERICANUM* TICKS

Nordin Zeidner[1], Amy Ullmann[1], Elizabeth Gabitzsch[1], Marc Dolan[1], Gabrielle Dietrich[1], Donald Champagne[2]

[1]Centers for Disease Control and Prevention, Fort Collins, CO, United States, [2]University of Georgia, Athens, GA, United States

8:30 a.m.

3

PROTEINS AND PEPTIDES INDUCED IN THE MIDGUTS OF BLOOD-FED TICKS CONTRIBUTE TO CONTROL OF MICROBIAL INFECTIONS: NEW INSIGHTS FROM A CDNA LIBRARY OF MIDGUT TRANSCRIPTS IN *DERMACENTOR VARIABILIS*

Daniel E. Sonenshine[1], Jesus Valenzuela[2], Jennifer M. Anderson[2]

[1]Old Dominion University, Norfolk, VA, United States, [2]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

(ACMCIP Abstract)

8:45 a.m.

4

NEW DEVELOPMENTS IN THE EPIDEMIOLOGY AND CONTROL OF TICK-BORNE RELAPSING FEVER IN EAST AFRICA

PJ McCall

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

9 a.m.

5

EFFECTS OF A HORIZONTAL VECTOR CONTROL STRATEGY ON *TRIATOMA INFESTANS* INFESTATION AND CHAGAS' DISEASE TRANSMISSION IN RURAL NORTHWESTERN ARGENTINA

Gonzalo M. Vazquez-Prokopec[1], Cynthia Spillmann[2], Mario Zaidenberg[2], Uriel Kitron[3], Ricardo E. Gürtler[1]

[1]University of Buenos Aires, Buenos Aires, Argentina, [2]Ministerio de Salud y Ambiente de la Nación, Cordoba, Argentina, [3]University of Illinois, Urbana, IL, United States

9:15 a.m.

6

EFFICACY OF ACTIVE UNDERGROUND RABBIT HOLES AROUND HOUSES FOR REDUCING THE INDOOR DENSITY OF *PHLEBOTOMUS PAPATASI*, VECTOR OF *LEISHMANIA MAJOR*, ETIOLOGIC AGENT OF ZOONOTIC CUTANEOUS LEISHMANIASIS IN TUNISIA, NORTH AFRICA

Elyes Zhioua, Ifhem Chelbi

Pasteur Institute of Tunis, Tunis, Tunisia

9:30 a.m.

7

EVALUATION OF NOVEL LONG-LASTING, INSECTICIDE-IMPREGNATED MATERIALS TO CONTROL ADULT SAND FLIES IN IRAQ, KENYA AND EGYPT

Gabriela E. Zollner[1], John L. Putnam[2], Jason H. Richardson[3], David Hoel[4], Hanafi A. Hanafi[4], Russell E. Coleman[1]

[1]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]Air Force Institute for Operational Health, San Antonio, TX, United States, [3]US Army Medical Research Unit, Nairobi, Kenya, [4]U.S. Naval Medical Research Unit No. 3, Cairo, Egypt

Symposium 3

Teaching Clinical Tropical Medicine to the Next Generation

Bonn/London

Monday, November 13 8:00 a.m. – 9:45 a.m.

Tropical diseases increasingly shape the social, political and economic outlook of local and regional communities and ultimately affect the entire world. Despite the obvious importance of tropical diseases, training health care providers for practice in tropical medicine is uncommon in the developed world. This symposium will address the current status of tropical medicine training and identify challenges facing the tropical medicine community as we race to keep pace with rapidly emerging tropical diseases.

CHAIR

David L. Blazes

US Naval Medical Research Center Detachment, Lima, Peru

8 a.m.

INTRODUCTION

David Blazes

US Naval Medical Research Center Detachment, Lima, Peru

8:05 a.m.

TROPICAL MEDICINE IN UNDERGRADUATE MEDICAL EDUCATION

Eric R. Houpt

University of Virginia, Charlottesville, VA, United States

8:30 a.m.

COOPERATION BETWEEN DEVELOPING AND DEVELOPED NATIONS IN CLINICAL TROPICAL MEDICINE TRAINING — THE GORGAS EXPERIENCE

Eduardo Gotuzzo

IMT 'Alexander Von Humboldt', Lima, Peru

8:55 a.m.

TROPICAL MEDICINE TRAINING IN THE MILITARY — A BRIEF HISTORY AND UPDATE OF CURRENT STATUS

Gregory J. Martin

US Naval Medical Research Center Detachment, Lima, Peru

9:20 a.m.

THE CHALLENGES FACING TROPICAL MEDICINE TRAINING IN THE 21ST CENTURY

David Mabey

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

Symposium 4

FIND Symposium on Diagnostics for Poverty-Related Diseases

International 4

Monday, November 13 8:00 a.m. – 9:45 a.m.

New technologies have revolutionized the ease, speed and accuracy of diagnostics for diseases in the developed world. However, the developing world is yet to benefit from this technological revolution. A major drawback is the absence of a bridge that can effectively link academic research and the diagnostic industry to the needs of developing countries. FIND provides this bridge, making it possible for academia and industry to access clinical trial sites, reference clinical materials and national disease control programs to evaluate promising products.

CHAIR

Vinand Nantulya

Foundation for Innovative New Diagnostics, Geneva, Switzerland

8 a.m.

PROGRESS IN THE DEVELOPMENT OF DIAGNOSTICS FOR TUBERCULOSIS

Mark Perkins

Foundation for Innovative New Diagnostics, Geneva, Switzerland

8:25 a.m.

DIAGNOSTICS FOR LEISHMANIASIS

Phillip Desjeux

Institute for OneWorld Health, Geneva, Switzerland

8:50 a.m.
NEW INITIATIVE FOR DIAGNOSTICS FOR HUMAN AFRICAN TRYPANOSOMIASIS

Joseph Ndungu
Foundation for Innovative New Diagnostics, Geneva, Switzerland

Symposium 4A

The Current Status of Surveillance and Laboratory Diagnostics of Monkeypox as an Emergent Zoonotic Disease

International 7

Monday, November 13 8 a.m. – 9:45 a.m.

Over the past several years monkeypox has garnered significant academic and political attention due to its clinical similarity to variola, elusive zoonotic reservoirs and trade-related importation into North America. This symposium is intended to highlight recent outbreak investigations (including a novel area – Sudan), efforts to estimate the human burden of exposure and disease in endemic areas of the Congo Basin and to provide an update on currently available and novel diagnostics.

CHAIR

Darin S. Carroll
Centers for Disease Control and Prevention, Atlanta, GA, United States

Inger K. Damon
Centers for Disease Control and Prevention, Atlanta, GA, United States

8 a.m.
INTRODUCTION

Inger K. Damon
Centers for Disease Control and Prevention, Atlanta, GA, United States

8:05 a.m.
WHO RESPONSES TO MONKEYPOX OUTBREAKS — PAST, PRESENT AND FUTURE

Pierre Formenty
WHO, Geneva, Switzerland

8:25 a.m.
CONGO BASIN MONKEYPOX SURVEILLANCE: DEMOCRATIC REPUBLIC OF CONGO

Anne Rimoin
University of California, Los Angeles, Los Angeles, CA, United States

8:45 a.m.
CONGO BASIN MONKEYPOX SURVEILLANCE: DEMOCRATIC REPUBLIC OF CONGO

Edith R. Lederman
Centers for Disease Control and Prevention, Atlanta, GA, United States

9:05 a.m.
ORTHOPOXVIRUS IMMUNODIAGNOSTICS, BREAKING THE COLD CHAIN

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

9:25 a.m.
LABORATORY SUPPORT OF MONKEYPOX FIELD RESEARCH IN THE DEMOCRATIC REPUBLIC OF CONGO

Herman Meyer
Institute of Microbiology, Munich, Germany

Symposium 5

Clinical and Immunopathogenesis of Major Flaviviral Infections

International 5/6

Monday, November 13 8:00 a.m. – 9:45 a.m.

Among the arboviruses, flaviviruses are responsible for several important public health diseases with increased case-fatality rate. In this symposium we will discuss the state-of-art for certain flaviviral immunopathologic and clinical aspects. Four major mosquito-borne flaviviral diseases will be discussed: Dengue, Japanese Encephalitis, Tick-borne encephalitis and Yellow Fever. These will include human and/or experimental new data on pathogenesis of flaviviral infections, new data and hypothesis to explain severity of disease, including cellular and humoral immune responses, mechanisms of cell aggression, relevant clinical and laboratory aspects, etc.

CHAIR

Pedro Fernando da Costa Vasconcelos
Instituto Evandro Chagas, Belém, Brazil

Robert B. Tesh
University of Texas Medical Branch, Galveston, TX, United States

8 a.m.
INTRODUCTION

Pedro F. Vasconcelos
Instituto Evandro Chagas, Belém, Brazil

8:15 a.m.
CLINICAL EPIDEMIOLOGY AND DENGUE PATHOGENESIS

Eva Harris
University of California, Berkeley, CA, United States

8:35 a.m.
JAPANESE ENCEPHALITIS: CLINICAL FEATURES AND PATHOGEN

Tom Solomon
University of Liverpool, Liverpool, United Kingdom

8:55 a.m.
TBE-CHARACTERIZATION OF OHFV AND RSSEV INFECTION

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

9:15 a.m.

YELLOW FEVER: ROLE OF CELLULAR AND HUMORAL RESPONSES

Pedro F. Vasconcelos

Instituto Evandro Chagas, Belém, Brazil

Symposium 6

Progress Toward the Development of GM *Anopheles gambiae* for Malaria Control

Copenhagen/Stockholm/Amsterdam

Monday, November 13 8:00 a.m. – 9:45 a.m.

The concept of controlling vectorborne diseases through the development and application of genetically modified (GM) vectors was first articulated in 1989. Since then a number of research laboratories across the world have been working on various aspects this strategy. In this symposium we aim to present to the tropical disease community recent progress in this area. Talks will cover a broad range of topics in the area of GM vectors. The focus will be on *Anopheles gambiae*, the principal vector of malaria in Africa. Scientific issues, including genetic transformation, gene drive, population genetics and *An. gambiae Plasmodium* interactions.

CHAIR

Gregory C. Lanzaro

University of California Mosquito Research Program, Davis, CA, United States

Shirley Luckhart

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

8 a.m.

INTRODUCTION

Gregory C. Lanzaro

University of California, Davis, CA, United States

8:05 a.m.

APPLICATIONS OF TRANSGENESIS TO VECTORS OF HUMAN MALARIA

Anthony A. James

University of California, Irvine, Irvine, CA, United States

8:30 a.m.

PROGRESS IN THE APPLICATION OF TRANSPOSABLE ELEMENTS FOR GENE DRIVE

Peter Atkinson

University of California, Riverside, Riverside, CA, United States

8:55 a.m.

MECHANISMS UNDERLYING SUSCEPTIBILITY AND REFRACTORINESS OF *AN. GAMBIAE* TO *PLASMODIUM FALCIPARUM*

Shirley Luckhart

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

9:20 a.m.

THE MOVEMENT OF GENES AMONG NATURAL POPULATIONS OF *AN. GAMBIAE* IN WEST AND CENTRAL AFRICA

Charles E. Taylor

University of California, Los Angeles, Los Angeles, CA, United States

Symposium 7

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Malaria Research: Recent Advances Through Functional Genomics

Supported with funding from the Burroughs Wellcome Fund

Marquis 3

Monday, November 13 8:00 a.m. – 9:45 a.m.

The symposium will highlight recent advances in understanding the biology of the malaria parasites using molecular genetic approaches.

CHAIR

John H. Adams

University of Notre Dame, Notre Dame, IN, United States

8 a.m.

INVASION OF RED BLOOD CELLS BY MALARIA PARASITES

Brendan Crabb

Walter & Eliza Hall Institute of Medical Research, Parkville, Victoria, Australia

8:35 a.m.

THE ROLE OF CIRCUMSPOROZOITE PROTEIN IN PROTECTIVE IMMUNITY AGAINST MALARIA INFECTION

Victor Nussenzweig

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

9:10 a.m.

SEXUAL DEVELOPMENT IN *PLASMODIUM* AND TRANSLATIONAL REPRESSION: A FUNCTIONAL GENOMICS APPROACH

Gunnar Mair

Leiden University Medical Centre, Leiden, The Netherlands

Symposium 8

Percutaneous Treatments for Cystic Echinococcosis

Marquis 4

Monday, November 13 8:00 a.m. – 9:45 a.m.

PAIR (Puncture, Aspiration, Injection and Re-aspiration) and other percutaneous treatments are an increasingly accepted third option, after surgery and albendazole, for the treatment of abdominal cystic echinococcosis (CE). However, indications and contraindications, plus a stage specific approach still have to be defined precisely. Speakers from highly endemic areas will discuss their experience, including the use of PAIR in extrabdominal locations. They will report on teaching and diffusing the technique as a means of offering an alternative to more expensive options in their countries. A European clinician experienced in CE will discuss technical modifications of PAIR, developed to adapt the technique to cyst stages traditionally considered contraindicated for this procedure.

CHAIR

Enrico Brunetti

University of Pavia Scientific Institute for Research, Hospitalisation and Health Care S. Matteo, Pavia, Italy

Carlo Filice

University of Pavia, Pavia, Italy

8 a.m.

INTRODUCTION

Enrico Brunetti

University of Pavia, Pavia, Italy

8:05 a.m.

PERCUTANEOUS TREATMENTS FOR CE: LESSONS LEARNED

Carlo Filice

University of Pavia Scientific Institute for Research, Hospitalisation and Health Care S. Matteo, Pavia, Italy

8:30 a.m.

PERCUTANEOUS TREATMENT: THE TURKISH EXPERIENCE

Okan Akhan

Hacettepe University, Ankara, Turkey

8:55 a.m.

PAIR IN A HIGHLY ENDEMIC AFRICAN AREA, TURKANA

Eberhard Zeyhle

African Medical Research Foundation, Nairobi, Kenya

9:20 a.m.

PEVAC FOR PREDOMINANTLY SOLID AND COMPLICATED ECHINOCOCCAL CYSTS

Hans Schipper

Academic Medical Center Amsterdam University, Amsterdam, The Netherlands

Symposium 9

Non-Vaccine Interventions for Preventing Diarrheal Diseases and Deaths

Marquis 2

Monday, November 13 8:00 a.m. – 9:45 a.m.

Diarrheal diseases continue to exact an enormous burden on the health and life expectancy of populations in developing countries. Although new vaccines and vaccines that are currently under development hold promise for reducing disease caused by specific pathogens, low-cost, simple interventions to improve water and food safety, hygiene and sanitation can prevent a range of enteric diseases and their sequelae and yield dramatic health benefits in the near term. This symposium will update the audience on current developments in non-vaccine interventions to prevent diarrheal and other enteric infections and their consequences.

CHAIR

James M. Hughes

Emory University, Atlanta, GA, United States

Eric Mintz

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

8 a.m.

INTRODUCTION

James M. Hughes

Emory University, Atlanta, GA, United States

8:05 a.m.

DIARRHEAL DISEASES: THE GAP BETWEEN THE DEVELOPED AND DEVELOPING WORLD

Richard L. Guerrant

University of Virginia, Charlottesville, VA, United States

8:30 a.m.

POINT-OF-USE WATER TREATMENT INTERVENTIONS: SCALING UP TO MEET THE MILLENNIUM DEVELOPMENT GOAL

Mark D. Sobsey

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

8:55 a.m.

MEETING THE MILLENNIUM DEVELOPMENT GOAL FOR SANITATION: THE FORGOTTEN CHALLENGE

Christine L. Moe

Emory University, Atlanta, GA, United States

9:20 a.m.

RECENT TRENDS IN DIARRHEA CASE MANAGEMENT AT HOME: ARE WE LOSING GROUND?

Pavani K. Ram

State University of New York, Buffalo, Buffalo, NY, United States

Scientific Session 10

Malaria — Epidemiology I

Marquis 1

Monday, November 13 8:00 a.m. – 9:45 a.m.

CHAIR

Adiel Mushi

Ifakara Health Research & Development Centre, Dar es Salaam, United Republic of Tanzania

Joanna Schellenberg

London School of Hygiene & Tropical Medicine and Ifakara Health Research and Development Centre (IHRDC), Dar es Salaam, United Republic of Tanzania

8 a.m.

8

MALARIA VECTOR CONTROL IN SUB-SAHARAN AFRICA: INSECTICIDE-TREATED NETS VERSUS INDOOR RESIDUAL SPRAYING

Christian Lengeler[1], Frank Tanser[2], Joshua Yukich[1], Brian Sharp[2]

[1]Swiss Tropical Institute, Basel, Switzerland, [2]Medical Research Council, Durban, South Africa

8:15 a.m.

9

ANEMIA PREVALENCE AMONG CHILDREN AFTER INDOOR RESIDUAL SPRAYING (IRS) ON BIOKO ISLAND

Luis E. Benavente[1], Immo Kleinschmidt[2], Christopher Schwabe[1], Miguel Torrez[1], Brian Sharp[2]

[1]Medical Care Development Inc., Silver Spring, MD, United States, [2]Medical Research Council, Durban, South Africa

8:30 a.m.

10

MONITORING INSECTICIDE-TREATED BEDNET POSSESSION AND USE: COMPARISON OF DATA COLLECTED VIA HEALTH FACILITY AND HOUSEHOLD SURVEYS — LINDI REGION AND RUFIJI DISTRICT, TANZANIA, 2005

Jacek Skarbinski[1], Mili Patel[2], Carla A. Winston[1], S. Patrick Kachur[1], Julius J. Massaga[3], Peter B. Bloland[1], Alexander K. Rowe[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Emory University Rollins School of Public Health, Atlanta, GA, United States, [3]Centre for Enhancement of Effective Malaria Interventions, Gates Malaria Partnership, Dar es Salaam, United Republic of Tanzania

8:45 a.m.

11

ESTIMATING MALARIA INCIDENCE RATES USING LONGITUDINAL DATA: AN ANALYSIS OF THE GARKI PROJECT USING A MICRO-SIMULATION MODEL

Derek Willis[1], Burton H. Singer[2]

[1]Princeton University, Hickory, NC, United States, [2]Princeton University, Princeton, NJ, United States

9 a.m.

12

MINORITY VARIANT PFCRT K76T MUTATIONS IN MALAWI SUGGEST LURKING CHLOROQUINE RESISTANCE

Jonathan J. Juliano[1], Jesse Kwiek[2], Victor Mwapasa[3], Steven Meshnick[2]

[1]Division of Infectious Diseases, University of North Carolina, School of Medicine, Chapel Hill, NC, United States, [2]Department of Epidemiology, University of North Carolina, School of Public Health, Chapel Hill, NC, United States, [3]Department of Community Health, University of Malawi College of Medicine, Blantyre, Malawi

9:15 a.m.

13

INTERMITTENT PREVENTIVE MALARIA TREATMENT DELIVERED ALONGSIDE ROUTINE VACCINATIONS IN TANZANIAN INFANTS: COVERAGE AND IMPACT ON INDICATORS OF MALARIA AND ANAEMIA

Joanna Armstrong Schellenberg[1], Werner Mayokola[2], Kizito Shirima[2], Hamissi Yuna[2], Fatuma Manzi[2], Mwifadhi Mrisho[2], Pedro Alonso[3], Hassan Mshinda[2], Marcel Tanner[4], David Schellenberg[1]

[1]Ifakara Health Research & Development Centre and London School of Hygiene & Tropical Medicine, Dar es Salaam, United Republic of Tanzania, [2]Ifakara Health Research & Development Centre, Dar es Salaam, United Republic of Tanzania, [3]Hospital Clinic i Provincial, Barcelona, Spain, [4]Swiss Tropical Institute, Basel, Switzerland

9:30 a.m.

14

COMMUNITY LEVEL ACCEPTABILITY OF INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA CONTROL IN TANZANIAN INFANTS.

Adiel Mushi[1], Robert Pool[2], Albert Majura[1], Robert Wa-Shija[1], Mwifadhi Mrisho[1], Joanna Schellenberg[2], Pedro Alonso[3], Marcel Tanner[4], Hassan Mshinda[1], David Schellenberg[2]

[1]Ifakara Health Research & Development Centre, Dar es Salaam, United Republic of Tanzania, [2]London School of Hygiene and Tropical Medicine, London, United Kingdom, [3]Hospital Clinic, Barcelona, Spain, [4]Swiss Tropical Institute, Basel, Switzerland

Exhibit Hall Open

International Level

Monday, November 13 9:30 a.m. – 10:30 a.m.

Coffee Break

International Level

Monday, November 13 9:45 a.m. – 10:15 a.m.

Poster Session A Setup

International and Skyline Levels

Monday, November 13 9:45 a.m. – 10:15 a.m.

Poster Session A Viewing

International and Skyline Levels

Monday, November 13 10:15 a.m. – Noon

Symposium 11

Malaria Pigment: Biology, Antimalarial Inhibition and Malaria Immunopathogenesis

Sydney/Zurich

Monday, November 13 10:15 a.m. – Noon

Hemozoin, commonly known as the malaria pigment, is a unique crystalline biomolecule produced by the malaria parasite. Biogenesis of hemozoin is an essential physiochemical process linked to hemoglobin degradation and heme detoxification. However, the biological mechanisms involved in synthesis of hemozoin are still under debate. Interference with hemozoin is proven antimalarial drug target and a distinct malaria parasite biomarker. Hemozoin has been shown to have diverse immunomodulatory functions and may contribute to ineffective erythropoeisis. Review of current status of knowledge of the distinctive hemozoin functions of the malaria parasite would be useful in developing strategies for new antimalarial drug discovery and understanding the pathogenesis of the disease.

CHAIR

David J. Sullivan

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

Babu L. Tekwani

University of Mississippi, University, MS, United States

10:15 a.m.

INTRODUCTION: HEME DETOXIFICATION PATHWAYS OF MALARIA PARASITE

Babu L. Tekwani

University of Mississippi, University, MS, United States

10:20 a.m.

HEMOZOIN STRUCTURE AND ITS CONSEQUENCES: DRUG TARGETS AND BEYOND

Scott D. Bohle

McGill University, Montreal, QC, Canada

10:40 a.m.

ASSAYS FOR *IN VITRO* HEME BIOCRYSTALLIZATION AND NEW ANTIMALARIAL DRUG DISCOVERY

David J. Sullivan

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

11 a.m.

HEME GENERATION: THE MALARIA PARASITES' ACHILLES HEEL

Stephen A. Ward

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

11:20 a.m.

ROLE OF PFHRP II IN HEME DETOXIFICATION FUNCTIONS OF THE MALARIA PARASITE

Virander Chauhan

International Centre Genetic Engineering Biotechnology, New Delhi, India

11:40 a.m.

MODULATION OF MONOCYTE/MACROPHAGE FUNCTIONS BY HEMOZOIN

Paolo Arese

University of Torino, Torino, Italy

Symposium 12

Public Health Training for the 21st Century — The Cutting-Edge of Preparation

Bonn/London

Monday, November 13 10:15 a.m. – Noon

This symposium presents an array of successful and sustainable public health training programs, including efforts from Centers for Disease Control and Prevention, WHO, DoD and academia. The symposium aims to illustrate the objectives, approaches, partners and target populations of selected public health training programs in the developed and developing world. Presentations will emphasize the diversity of the different training needs of epidemiologists, researchers, laboratorians and other public health workers. These experiences will hopefully serve as models for future programs and as a foundation to extend their reach to other countries and regions.

CHAIR

David L. Blazes

US Naval Medical Research Center Detachment, Lima, Peru

Barbara J. Sina

Fogarty International Center/National Institutes of Health, Bethesda, MD, United States

10:15 a.m.

INTRODUCTION

David Blazes

Naval Medical Research Center Detachment, Lima, Peru

Barbara Sina

Fogarty International Center, National Institutes of Health, Bethesda, MD, United States

10:25 a.m.

CENTERS FOR DISEASE CONTROL AND PREVENTION'S EPIDEMIC INTELLIGENCE SERVICE — OVER 50 YEARS OF FIELD EPIDEMIOLOGY TRAINING

Douglas H. Hamilton

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

10:50 a.m.

PUBLIC HEALTH TRAINING IN THE DEVELOPING WORLD — 20 YEARS OF ACADEMIC EXPERIENCE IN PERU

Robert H. Gilman

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

11:15 a.m.

WHO'S INTEGRATED CAPACITY DEVELOPMENT PROGRAMME FOR LABORATORY SPECIALISTS

Philippe F. Dubois

WHO Lyon Office for National Epidemic, Lyon, France

11:40 a.m.

PREPARING FOR THE WORST — TEACHING OUTBREAK INVESTIGATION AND RESPONSE IN THE AMERICAS: 2002–2006

Andres G. Lescano

US Naval Medical Research Center Detachment, Lima, Peru

Scientific Session 13

Mosquitoes — Biochemistry, Molecular Biology and Molecular Genetics I

International 4

Monday, November 13 10:15 a.m. – Noon

CHAIR

Clare Strode

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Ken Vernick

University of Minnesota, St. Paul, MN, United States

10:15 a.m.

15

DISTRIBUTION OF TWO ESSENTIAL AMINO ACID TRANSPORTERS IN THE LARVAL ALIMENTARY CANAL OF THE AFRICAN MALARIA MOSQUITO *AN. GAMBIAE* (DIPTERA: CULICIDAE)

Bernard A. Okech, William R. Harvey, Dmitri Y. Boudko

Whitney Laboratory for Marine Bioscience, University of Florida, St. Augustine, FL, United States

10:30 a.m.

16

MICROARRAY ANALYSIS OF DIFFERENTIAL GENE EXPRESSION IN THE MIDGUT OF *ANOPHELES GAMBIAE* LARVAE

Marco V. Neira Oviedo[1], Leslie vanEkeris[1], Maria del Pilar Corena[2], Paul J. Linser[1]

[1]The Whitney Laboratory/University of Florida, St. Augustine, FL, United States, [2]Mayo Clinic, Jacksonville, FL, United States

10:45 a.m.

17

THE DIFFERENTIAL GENE EXPRESSION OF DETOXIFICATION ENZYMES IMPLICATED IN INSECTICIDE RESISTANCE OF *AEDES AEGYPTI* USING A SMALL SCALE MICROARRAY

[1]Parakma S. Karunarate[1], William C. Black[2], Hilary Ranson[3]

[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Colorado State University, Colorado, CO, United States, [3]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

11 a.m.

18

DIFFERENTIAL GENE EXPRESSION BETWEEN M AND S FORMS OF *ANOPHELES GAMBIAE*

Bryan J. Cassone[1], Matthew W. Hahn[2], Karine Mouline[1], Bradley J. White[1], Nora J. Besansky[1]

[1]University of Notre Dame, Notre Dame, IN, United States, [2]Indiana University, Bloomington, IN, United States

11:15 a.m.

19

GENETIC LINKAGE MAPPING AND EVIDENCE OF POPULATION EXPANSION IN THE WEST NILE VIRUS VECTOR *CULEX TARSALIS*

Meera Venkatesan[1], M. Claire Hauer[1], Catherine J. Westbrook[2], Jason L. Rasgon[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Walter Reed Army Institute of Research (Walter Reed Army Institute of Research), Silver Spring, MD, United States

11:30 a.m.

20

AGING, REPRODUCTION, AND INSULIN SIGNALING IN THE MOSQUITO *AEDES AEGYPTI*

Michael Riehle, Jessica Brown, Frank Ramberg, Anam Javed

University of Arizona, Tucson, AZ, United States

11:45 a.m.

21

QUANTITATIVE ANALYSIS OF THE *ANOPHELES GAMBIAE* HEMOLYMPH IMMUNE PROTEOME

Frederick Oduol[1], Jun Li[1], LeeAnn Higgins[1], Lori Anderson[1], Beatrix Ueberheide[2], Jiannong Xu[1], Donald F. Hunt[2], Kenneth D. Vernick[1]

[1]University of Minnesota, St Paul, MN, United States, [2]University of Virginia, Charlottesville, VA, United States

Symposium 14

Likelihood of Human Transmission and Possibility of Elimination of *Leishmania infantum* From the US Foxhound Population

International 7

Monday, November 13 10:15 a.m. – Noon

Endemic canine visceral Leishmania infection is a predominant risk factor for this same infection in humans. This symposium will review the complexities of zoonotic visceral Leishmaniasis in the United States, highlighting the risks of maintaining Leishmania-infected dogs within this country and outlining the diagnostic tests available to aid in elimination of this disease from North America. The speakers will discuss clinical visceral Leishmaniasis and how it compares to disease currently seen in U.S. foxhounds, the current status of diagnostics available for this disease in dogs, the latest epidemiology of canine disease in the U.S. and review data-supported possibilities for disease transmission between canines and humans.

CHAIR

Christine Petersen

Iowa State University, Ames, IA, United States

10:15 a.m.

OVERVIEW AND INTRODUCTION TO CANINE VISCERAL LEISHMANIASIS IN U.S.

Christine A. Petersen

Iowa State University, Ames, IA, United States

10:20 a.m.

CLINICAL ASPECTS OF VISCERAL LEISHMANIASIS: A COMPARISON OF CANINE TO HUMAN DISEASE

James H. Maguire, Stephen C. Barr

University of Maryland, Baltimore, MD, United States

10:45 a.m.

COMPLEXITIES OF DIAGNOSING CANINE PROTOZOAL DISEASE IN THE UNITED STATES

Louis V. Kirchhoff

University of Iowa, Iowa City, IA, United States

11:10 a.m.

SURVEILLANCE OF CANINE LEISHMANIASIS IN US TO MONITOR RISK OF TRANSMISSION TO EITHER VECTOR SPECIES OR HUMANS

Peter M. Schantz

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

11:35 a.m.

CANINE VISCERAL LEISHMANIASIS IN THE U.S: TRANSMISSION WITHOUT VECTOR INVOLVEMENT?

Edgar Rowton, Joan E. Jackson

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

Symposium 15

Global Filariasis Elimination: Do We Need to Refine the Strategies?

International 5/6

Monday, November 13 10:15 a.m. – Noon

The Global Program to Eliminate Filariasis is the largest drug distribution ever planned and is aimed at providing treatment to the 1.2 billion people at risk to this infection. As originally implemented, countries developed mass treatment administration (MDA) to reach all at-risk populations will annual treatment for 5 years. Readdressing the approaches being used is timely, as this annual mass drug administration program has now reached, in many countries, the important timeline of five years of implementation originally set as the period required for successful elimination of this devastating infection. This symposium will discuss the current status of the program and its effects, while reevaluating the original concepts and policies that the effort was based upon. This will provide a basis for planning the next phase of this major global drug distribution program. The panel members include representatives from the endemic countries, WHO, the donor institutions and the scientific community.

CHAIR

Charles Mackenzie

Michigan State University, East Lansing, MI, United States

Pat Lammie

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

10:15 a.m.

THE PROGRESS OF THE GLOBAL PROGRAM

Dirk Engels

World Health Organization, Geneva, Switzerland

10:40 a.m.

FROM THE DONOR'S PERSPECTIVE

Mark Bradley

GlaxoSmithKline, London, United Kingdom

11:05 a.m.

EXPERIENCES FROM THE FIELD

Mwele N. Malecela

National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

11:30 a.m.

IS THE SCIENCE ADEQUATE?

Patrick J. Lammie

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

Scientific Session 16

Schistosomiasis I — Immunology

Copenhagen/Stockholm/Amsterdam

Monday, November 13 10:15 a.m. – Noon

CHAIR

W. Evan Secor

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

David Williams

Illinois State University, Normal, IL, United States

10:15 a.m.

22

ELEVATED HEPCIDIN LEVELS ARE ASSOCIATED WITH ADVERSE BIRTH OUTCOMES IN SCHISTOSOME INFECTED PREGNANT WOMEN

Jonathan D. Kurtis[1], Luz P. Acosta[2], Jeannette Kanefsky[3], Daria Manalo[2], Jemaima Yu[2], MaryPaz Urbina[4], Gretchen C. Langdon[3], Remigio Olveda[2], Jennifer Friedman[5]

[1]Center for International Health Research, Rhode Island Hospital; Department of Pathology and Laboratory Medicine, Brown University Medical School, Providence, RI, United States, [2]Research Institute for Tropical Medicine, Manila, Philippines, [3]Center for International Health Research, Rhode Island Hospital, Providence, RI, United States, [4]Research Institute for Tropical Medicine, Manila, Philippines, [5]Center for International Health Research, Rhode Island Hospital; Department of Pediatrics, Brown University Medical School, Providence, RI, United States

10:30 a.m.

23

***SCHISTOSOMA JAPONICUM* REINFECTION AFTER PRAZIQUANTEL TREATMENT CAUSES ANEMIA OF INFLAMMATION**

Tjalling Leenstra[1], Hannah M. Coutinho[2], Luz P. Acosta[3], Gretchen C. Langdon[4], Li Su[5], Remigio M. Olveda[3], Stephen T. McGarvey[6], Jonathan D. Kurtis[7], **Jennifer Friedman[8]**

[1]Department of Pediatrics, Brown University Medical School; Center for International Health Research, Lifespan Hospitals, Providence, RI, United States, [2]Center for International Health Research, Lifespan Hospitals; Brown University, Providence, RI, United States, [3]Research Institute for Tropical Medicine, Manila, Philippines, [4]Center for International Health Research, Lifespan Hospitals, Providence, RI, United States, [5]Center for Statistical Sciences, Brown University, Providence, RI, United States, [6]International Health Institute, Brown University, Providence, RI, United States, [7]Center for International Health Research, Lifespan Hospital, Department of Pathology and Laboratory Medicine, Brown University Medical School, Providence, RI, United States, [8]Center for International Health Research, Department of Pediatrics, Brown University Medical School, Providence, RI, United States

10:45 a.m.

24

TH2 CYTOKINES ARE ASSOCIATED WITH PERSISTENT HEPATIC FIBROSIS IN HUMAN *S. JAPONICUM* INFECTION

Hannah M. Coutinho[1], Luz P. Acosta[2], Stephen T. McGarvey[3], Li Su[4], Gretchen C. Langdon[1], Mario A. Jiz[2], Blanca Jarilla[2], Remigio M. Olveda[2], Jennifer F. Friedman[5], Jonathan D. Kurtis[6]

[1]Center for International Health Research, Rhode Island Hospital, Brown University Medical School, Providence, RI, United States, [2]Research Institute of Tropical Medicine, Manila, Philippines, [3]Epidemiology Section, Department of Community Health and International Health Institute, Brown University, Providence, RI, United States, [4]Center for Statistical Sciences, Brown University, Providence, RI, United States, [5]Center for International Health Research and Department of Pediatrics, Rhode Island Hospital, Brown University Medical School, Providence, RI, United States, [6]Center for International Health Research and Department of Pathology and Laboratory Medicine, Rhode Island Hospital, Brown University Medical School, Providence, RI, United States

(ACMCIP Abstract)

11 a.m.

25

SCHISTOSOMA MANSONI* DERIVED HIGH MOBILITY GROUP BOX-1 (HMGB-1) PROTEIN MAY HAVE AN IMPORTANT ROLE IN EGG-INDUCED GRANULOMA IN *SCHISTOSOMIASIS MANSONI

Gnanasekar Munirathinam, Velusamy Rangasamy, He Yi-Xun, Bernard Salafsky, Ramaswamy Kalyanasundaram

University of Illinois, Rockford, IL, United States

(ACMCIP Abstract)

11:15 a.m.

26

THE EFFECT OF PRAZIQUANTEL TREATMENT ON IMMUNE RESPONSES AGAINST *SCHISTOSOMIASIS MANSINI* DURING PREGNANCY: CYTOKINE AND ANTIBODY RESPONSES IN PREGNANT WOMEN AND THEIR INFANTS

Robert Tweyongyere[1], Patrice A. Mawa[2], Proscovia B. Namujju[2], Frances M. Jones[3], Juliet Ndibazza[2], Nicholas Omoding[2], Lawrence Muhangi[2], Narcis B. Kabatereine[4], Birgitte J. Vennervald[5], David W. Dunne[3], Eli Katunguka-Rwakishaya[6], Alison M. Elliott[7]

[1]Makerere University, Cambridge, United Kingdom, [2]Medical Research Council/Uganda Virus Research Institute Uganda Research Unit on AIDS, Kampala, Uganda, [3]University of Cambridge, Department of Pathology, Cambridge, United Kingdom, [4]Vector Control Division, Ministry of Health, Kampala, Uganda, [5]Denish Bilharzia Laboratory - Institute for Health Research and Development, Copenhagen, Denmark, [6]Makerere University, Kampala, Uganda, [7]London School of Hygiene and Tropical Medicine, London, United Kingdom

11:30 a.m.

27

***SCHISTOSOMA MANSONI* INFECTION INCREASES SUSCEPTIBILITY TO AIDS VIRUS INFECTION TRANSMISSION AND REPLICATION IN NON-HUMAN PRIMATES**

Agnes-Laurence Chenine[1], Ela Shai-Kobiler[2], Lisa N. Steele[3], Peter Augostini[3], Ruth M. Ruprecht[2], W. Evan Secor[3]

[1]Dana-Farber Cancer Institute and Department of Medicine, Harvard Medical School, Atlanta, GA, United States, [2]Dana-Farber Cancer Institute and Department of Medicine, Harvard Medical School, Boston, MA, United States, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

11:45 a.m.

28

RESISTANCE TO *S. JAPONICUM* REINFECTION IN MATURE WOMEN IS NOT MEDIATED BY ADAPTIVE CYTOKINE RESPONSES

Gretchen Langdon[1], Hannah Coutinho[1], Tjalling Leenstra[2], Luz P. Acosta[3], Jennifer Friedman[2], Jonathan Kurtis[4]

[1]Center for Intenational Health Research, Rhode Island Hospital, Providence, RI, United States, [2]Center for International Health Research, Rhode Island Hospital; Department of Pediatrics, Brown University Medical School, Providence, RI, United States, [3]Research Institute for Tropical Medicine, Manila, Philippines, [4]Center for Intenational Health Research, Rhode Island Hospital; Department of Pathology and Laboratory Medicine, Brown University Medical School, Providence, RI, United States

Symposium 17

Malaria: Genetic Diversity in the Parasite and Human Host

Marquis 3

Monday, November 13 10:15 a.m. – Noon

This symposium is designed to review and update progress toward understanding genetic diversity within *Plasmodium falciparum*, and how this information may be applied to understanding the biology of the parasite and the development of intervention strategies. The speakers will describe the development of a genome-wide diversity map for *P. falciparum*, our understanding of the population structure and evolution of the parasite, malaria pathogenesis and the genome, and how host genetic variation contributes to malaria 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

10:20 a.m.

GENOME-WIDE MAP OF DIVERSITY IN *PLASMODIUM FALCIPARUM*

Sarah K. Volkman

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

10:45 a.m.

GENOME-WIDE GENETIC VARIATION, POPULATION STRUCTURE, AND EVOLUTION OF *PLASMODIUM FALCIPARUM*

Xinzhuan Su

National Institutes of Health, Laboratory of Malaria and Vector Research, Rockville, MD, United States

11:10 a.m.

PARASITE DIVERSITY AND THE SPECTRUM OF DISEASE DUE TO *PLASMODIUM FALCIPARUM*

Patrick E. Duffy

Seattle Biomedical Research Institute, Seattle, WA, United States

11:35 a.m.

HOST GENETIC DIVERSITY AND MALARIA PATHOGENESIS

Abdoulaye A. Djimde

University of Bamako, Mali, Bamako, Mali

Symposium 18

ACT's: Principle into Practice — Not so Easy

Supported with funding from GlaxoSmithKline

Marquis 4

Monday, November 13 10:15 a.m. – Noon

Public-private partnerships, such as that between Medicines for Malaria Venture (MMV) and GlaxoSmithKline (GSK), are developing next-generation artemisinin combination therapy (ACT) for uncomplicated *P. falciparum* malaria. As these new medicines approach the end of the drug development pipeline, overcome post-launch issues involving supply, access, ICE, distribution, pharmacovigilance, resistance monitoring, treatment of extra vulnerable groups, life cycle management, and new indications or formulations are critical in a successful drug deployment in order to ultimately make a public health impact. The symposium will discuss how a multi-faceted approach from the early stages of a drug's development can ensure optimal use in malaria endemic areas.

SYMPOSIUM ORGANIZER

Peter G. Borrett

Hera.Com, Richmond, United Kingdom

CHAIR

Christopher Hentschel

Medicines for Malaria Venture, Geneva, Switzerland

10:15 a.m.

INTRODUCTION

Christopher Hentschel

Medicines for Malaria Venture, Geneva, Switzerland

10:20 a.m.

FORWARD PLANNING ENSURES REAL SUCCESS: DEPLOYMENT

Silvio Gabriel

Novartis AG, Basel, Switzerland

10:45 a.m.

BETTER SAFE THEN SORRY: PHARMACOVIGILANCE AND RESISTANCE MONITORING

Ambrose Talisuna

Ugandan Ministry of Health, Kampala, Uganda

11:10 a.m.

PLANNING FOR THE FUTURE: PHASE IV STUDIES

Umberto D'Alessandro

Prince Leopold Institute of Tropical Medicine, Antwerp, Belgium

11:35 a.m.

CLINICAL CONUNDRUM — LIFE CYCLE MANAGEMENT

Theodore K. Mutabingwa

National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania

Symposium 19

American Committee on Arthropod-Borne Viruses (ACAV): International Field Research on Arboviruses

Marquis 2

Monday, November 13 10:15 a.m. – 12:45 p.m.

The symposium will serve as a forum to highlight the importance of international field research on arboviruses to both U.S. and foreign countries, and to emphasize the need to sustain field research both nationally and internationally.

CHAIR

Douglas 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

11:00 a.m.

SYMPOSIUM: INTRODUCTION TO INTERNATIONAL RESEARCH ON ARBOVIRUSES

Douglas M. Watts

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

11:15 a.m.

ARBOVIRAL DISEASE OUTBREAK INVESTIGATIONS

T.G. Ksiazek

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

11:40 a.m.

LONGITUDINAL ENTOMOLOGICAL AND EPIDEMIOLOGICAL RESEARCH ON DENGUE IN IQUITOS, PERU

Amy Morrison

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

12:05 p.m.

ARBOVIRUS RESEARCH IN ASIA — THE LIVERPOOL EXPERIENCE

Tom Solomon

University of Liverpool, Liverpool, United Kingdom

12:30 p.m.

OUTBREAK REPORT

Douglas M. Watts

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

Scientific Session 20

Malaria — Epidemiology II

Marquis 1

Monday, November 13 10:15 a.m. – Noon

CHAIR

Catherine O. Falade

University of Ibadan, Ibadan, Nigeria

Peter Zimmerman

Case Western Reserve University, Cleveland, OH, United States

10:15 a.m.

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BARRIERS TO PROMPT AND EFFECTIVE MALARIA TREATMENT IN RURAL TANZANIA: BETTER DRUGS IS NOT ENOUGH

Manuel W. Hetzel[1], Christian Lengeler[1], Brigit Obrist[1], Ahmed M. Makemba[2], Christopher Mshana[2], Alexander Schulze[3], Hassan Mshinda[2]

[1]Swiss Tropical Institute, Basel, Switzerland, [2]Ifakara Health Research and Development Centre, Ifakara, United Republic of Tanzania, [3]Novartis Foundation for Sustainable Development, Basel, Switzerland

10:30 a.m.

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EARLY TREATMENT OF UNCOMPLICATED MALARIA WITH A COMBINATION INCLUDING AMODIAQUINE: FOLLOW UP OF 175 CLINICAL ATTACKS IN SENEGAL, 2004-2005

Fatoumata Diène Sarr[1], Ronan Jambou[1], Richard Paul[1], Idrissa Talla[2], Moussa D. Sarr[3], Souleymane Ndour[4], Delphine Aldebert[1], Adama Tall[1], Laurence Marrama Rakotoarivony[1]

[1]Institut Pasteur in Dakar (IPD), Dakar, Senegal, [2]Ministere de la Sante, Thies, Senegal, [3]Service de Lutte Anti Parasitaire, Thies, Senegal, [4]Ministere de la Sante, Kaba, Senegal

10:45 a.m.

31

EPIDEMIOLOGY OF CONGENITAL MALARIA IN NIGERIA: A MULTI-CENTRE STUDY

Catherine O. Falade[1], Olugbenga Mokuolu[2], Henrietta Okafor[3], Adeola Orogade[4], Adegoke Falade[5], O. Adedoyin[2], Tagbo M. Oguonu[6], Davidson H. Hamer[7], Micheal V. Callaham[8]

[1]Department of Clinical Pharmacology, University College Hospital, Ibadan, Nigeria, [2]Department of Paediatrics, University of Ilorin Teaching Hospital, Ilorin, Nigeria, [3]Department of Paediatrics, University of Nigeria Teaching Hospital, Enugu, Nigeria, [4]Department of Paediatrics, Ahmadu Bello University Teaching Hospital, Kaduna, Nigeria, [5]Department of Paediatrics, University College Hospital, Ibadan, Nigeria, [6]Department of Paediatrics, University of Nigeria Teaching Hospital, Enugu, Nigeria, [7]Center for International Health and Development, Boston University School of Public Health, Boston, MA, United States, [8]Division of Infectious Disease, Massachusetts General Hospital, Boston, MA, United States

11 a.m.

32

USE OF ULTRASOUND TECHNOLOGY TO INVESTIGATE THE TEMPORAL RELATIONSHIP BETWEEN MATERNAL MALARIA INFECTION AND *IN UTERO* FETAL GROWTH

Sarah H. Landis[1], Joseph Atibu[2], Cande V. Ananth[3], Victor Lokomba[2], Antoinette Tshefu[2], Robert W. Ryder[4], Katherine E. Hartmann[4], Steven R. Meshnick[4]

[1]University of North Carolina-Chapel Hill, Carrboro, NC, United States, [2]University of North Carolina-Democratic Republic of Congo Programme, Kinshasa, Democratic Republic of the Congo, [3]UMDNJ-Robert Wood Johnson Medical School, New Brunswick, NJ, United States, [4]University of North Carolina-Chapel Hill, Chapel Hill, NC, United States

11:15 a.m.

33

CHANGING EPIDEMIOLOGY OF *PLASMODIUM* BLOOD-STAGE INFECTIONS IN THE WOSERA REGION OF PAPUA NEW GUINEA

Ivo Mueller[1], Laurin J. Kasehagen[2], David T. McNamara[2], Moses J. Bockarie[2], Benson Kiniboro[1], Lawrence Rare[1], Kerry Lorry[1], Will Kastens[2], John C. Reeder[1], James W. Kazura[2], Blaise Genton[3], **Peter A. Zimmerman[2]**

[1]Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, [2]Case Western Reserve University, Cleveland, OH, United States, [3]Swiss Tropical Institute, Basel, Switzerland

(ACMCIP Abstract)

11:30 a.m.

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TOPOGRAPHY, LAND-COVER, AND ELEVATION PREDICT AREAS AT RISK FOR MALARIA WITHIN COMMUNITIES IN A HIGHLAND REGION OF WESTERN KENYA

Justin M. Cohen[1], Kacey C. Ernst[1], Kim A. Lindblade[2], John M. Vulule[3], Chandy C. John[4], Mark L. Wilson[1]

[1]Department of Epidemiology, University of Michigan, Ann Arbor, MI, United States, [2]Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Kenya Medical Research Institute, Kisumu, Kenya, [4]Department of Pediatrics, University of Minnesota, Minneapolis, MN, United States

11:45 a.m.

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THE USE OF PERSONAL DIGITAL ASSISTANTS FOR DATA ENTRY AT THE POINT OF COLLECTION IN TROPICAL MEDICAL RESEARCH

Kizito Shirima[1], Joanna Schellenberg[2], Werner Maokola[1], Oscar Mukasa[1], Pedro Alonso[3], Marcel Tanner[4], Hassan Mshinda[1], David Schellenberg[2]

[1]Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, [2]London School of Hygiene and Tropical Medicine, London, United Kingdom, [3]Hospital Clinic, Barcelona, Spain, [4]Swiss Tropical Institute, Basel, Switzerland

Exhibit Hall Open/Light Lunch

International Level

Monday, November 13 Noon – 1:30 p.m.

Poster Session A (#36–285)

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Arthropods/Entomology – Other

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PUBLIC HEALTH ISSUES AND FIRE ANT ENVENOMATION: NEW PERSPECTIVES ON AN AGE-OLD PROBLEM

Paul Ijams[1], David P. Adams[2], Raimi Ewetola[1]

[1]Armstrong Atlantic State University, Savannah, GA, United States, [2]Armstrong Atlantic State University, MSc (Cand), London School of Hygiene and Tropical Medicine, Savannah, GA, United States

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***CUTEREBRA* CUTANEOUS MYIASIS — NEW HAMPSHIRE, 2004**

Rachel N. Plotinsky[1], Elizabeth A. Talbot[2]

[1]Centers for Disease Control and Prevention, Concord, NH, United States, [2]New Hampshire Department of Health and Human Services, Concord, NH, United States

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RESPONSE OF *AEDES ALBOPICTUS* TO SIX TRAPS IN SUBURBAN SETTINGS IN NORTH CENTRAL FLORIDA

David F. Hoel[1], Daniel L. Kline[2], Sandra Allan[2]

[1]U.S. Naval Medical Research Unit Number Three, Cairo, Egypt, [2]Center for Medical, Agricultural, and Veterinary Entomology, Gainesville, FL, United States

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TICK INDUCED TH2 POLARIZATION OF HOST INTRACELLULAR CYTOKINES BY INFESTATION WITH *IXODES SCAPULARIS* NYMPHS

Venkata D. Boppana

University of Connecticut Health Center, Farmington, CT, United States

(ACMCIP Abstract)

40

GENETIC CHARACTERIZATION OF *TRYPANOSOMA CRUZI* ISOLATES FROM *TRIATOMA* SPP. IN THE UNITED STATES BASED ON SSU RIBOSOMAL RNA GENE SEQUENCES

Sonia A. Kjos[1], Joseph J. Gillespie[2], Kathleen S. Logan[1], Jimmy K. Olson[1], Karen F. Snowden[1]

[1]Texas A&M University, College Station, TX, United States, [2]Virginia Bioinformatics Institute at Virginia Tech, Blacksburg, VA, United States

Bacteria – Diarrheal Diseases/Mucosal Immunity

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MOLECULAR QUANTIFICATION OF FECAL ANAEROBIC FLORA IN HEALTH AND IN ACUTE DIARRHEA

Ramadass Balamurugan, Balakrishnan S. Ramakrishna, Leni Mathew

Christian Medical College, Vellore, India

42

COMMUNITY PERCEPTIONS OF BLOODY DIARRHEA IN THE URBAN SLUMS OF KAMALAPUR, BANGLADESH: IMPLICATIONS FOR A SHIGELLA VACCINE

Wences Arvelo[1], Lauren S. Blum[2], Nazmun Nahar[2], Lufton Nahar[2], Al Pach[3], Robert Pack[4], Stephen P. Luby[2], Pavani K. Ram[5]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]International Centre for Diarrheal Disease Research, Bangladesh (ICDDR,B), Dhaka, Bangladesh, [3]International Vaccine Institute, Seoul, Republic of Korea, [4]West Virginia University School of Medicine, Morgantown, WY, United States, [5]University at Buffalo, Buffalo, NY, United States

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SPATIO-TEMPORAL DISTRIBUTION AND ECOLOGICAL DETERMINANTS OF ENTERIC DISEASES IN VIETNAM, 1991-2001

Louise A. Kelly-Hope[1], Wladimir J. Alonso[1], Vu Dinh Thiem[2], Dang Duc Anh[2], Do Gia Canh[2], Hyejon Lee[3], David L. Smith[1], Mark A. Miller[1]

[1]National Institutes of Health, Bethesda, MD, United States, [2]National Institute of Hygiene and Epidemiology, Hanoi, Vietnam, [3]International Vaccine Institute, Seoul, Republic of Korea

Bacteria – Other

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FIRST ISOLATION AND INITIAL MOLECULAR CHARACTERISATION OF *RICKETTSIA AFRICAE* IN GERMANY FROM A PATIENT RETURNING FROM SOUTH AFRICA

Roman Wölfel[1], Thomas Löscher[2], Gisela Bretzel[2], Martin Pfeffer[1], Sandra Essbauer[1], Gerhard Dobler[1]

[1]Bundeswehr Institute of Microbiology, Munich, Germany, [2]Department of Infectious Diseases and Tropical Medicine, University of Munich, Munich, Germany

45

STUDIES ON THE RELATION BETWEEN ARSENIC IN SURFACE WATER AND BURULI ULCER DISEASE

Dziedzom K. de Souza, Charles Quaye, Michael D. Wilson, Daniel A. Boakye

Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana

46

THE EPIDEMIOLOGY OF SYPHILIS CASES IN THREE SOCIALLY MARGINALIZED POPULATIONS OF LOW-INCOME, URBAN, COASTAL PERU

Kelika A. Konda[1], Segundo R. Leon[2], Andres G. Lescano[3], Jeffrey D. Klausner[4], Rina Meza[3], Franca R. Jones[5], Carlos F. Caceres[2], Thomas J. Coates[1], NIMH Collaborative HIV/STD Prevention Trial Group[6]

[1]University of California, Los Angeles, Los Angeles, CA, United States, [2]Universidad Peruana Cayetano Heredia, Lima, Peru, [3]US Naval Medical Research Center Detachment, Lima, Peru, [4]San Francisco Department of Public Health, San Francisco, CA, United States, [5]US Naval Medical Research Center, Bethesda, MD, United States, [6]NIMH Multisite International Group, Bethesda, MD, United States

Bacteria – Systemic Infections

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BUBONIC PLAGUE IN THE CITY OF LOS ANGELES: "FINDING AN EPIDEMIOLOGIC NEEDLE IN A HAYSTACK OF CA-MRSA"

Anne M. Anglim[1], Roshan Reporter[2], Gail VanGordon[2], Anthony Gonzales[2], Santhi Iyer[3], Jens J. Kort[1], Laurene Mascola[2]

[1]Keck School of Medicine-University of Southern California, Los Angeles, CA, United States, [2]Los Angeles County Department of Health Services, Los Angeles, CA, United States, [3]Los Angeles County-University of Southern California Medical Center, Los Angeles, CA, United States

48

OPTIMAL DIAGNOSIS OF ENTERIC FEVER IN CHILDREN IN PAKISTAN

Megan E. Reller[1], Anita K. Zaidi[2], Zulfiqar A. Bhutta[2], Shazia Sultana[2], Beenish Hanif[2], Shahida Qureshi[2], Rumina Hasan[2], Donald A. Goldmann[1]

[1]Childrens Hospital Boston, Boston, MA, United States, [2]Aga Khan University Hospital, Karachi, Pakistan

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MICROBIAL ETIOLOGIES OF DISSEMINATED PNEUMONIA AND SEPSIS IN SA KAEO PROVINCE, THAILAND

Possawat Jornrakate[1], Julie E. Fischer[1], Boonchuay Eampokalap[2], Wanna Wongjindanon[1], Leelawadee Sangsuk[3], Somsak Rientong[4], Pokasem Sirinarm[5], Wiwan Sanasuttipun[1], Sonja J. Olsen[1], Scott F. Dowell[1], **Leonard F. Peruski[6]**

[1]International Emerging Infections Program, Thailand MOPH-US Centers for Disease Control and Prevention Collaboration, Bangkok, Thailand, [2]Bamrasnaradura Institute, Ministry of Public Health, Nonthaburi, Thailand, [3]National Institute of Health, Department of Medical Sciences, Ministry of Public Health, Nonthaburi, Thailand, [4]National Tuberculosis Reference Center, Ministry of Public Health, Bangkok, Thailand, [5]Crown Prince Hospital, Sa Kaeo Provincial Health Office, Ministry of Public Health, Sa Kaeo, Thailand, [6]International Emerging Infections Program, Thailand MOPH-US Centers for Disease Control and Prevention Collaboration, Bangkok, Thailand

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OUTBREAK OF LEPTOSPIROSIS AMONG ADVENTURE RACE PARTICIPANTS — TAMPA, FLORIDA, 2005

Eric J. Stern[1], Diane Gross[1], Sarah Reagan[1], Mary D. Ari[1], Lazenia Harris[1], Renee Galloway[1], Kathleen Wannemuehler[1], Taylor Wofford[1], David Atrubin[2], Kelly Granger[3], Simone Daniels[3], Patricia Wilkins[1], Thomas A. Clark[1]

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Cestodes – Cysticercosis

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EVALUATION OF IGG-ELISA USING *CYSTICERCUS CELLULOSAE* SOMATIC AND EXCRETORY SECRETORY ANTIGENS FOR DIAGNOSIS OF NEUROCYSTICERCOSIS REVEALING THE BIOLOGICAL STAGE OF THE PARASITE

Priyadarshi S. Sahu, Subhash C. Parija

Jawaharlal Institute of Postgraduate Medical Education and Research, Pondicherry, India

(ACMCIP Abstract)

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USE OF RT24H QUICK ELISA ASSAY IN DIAGNOSIS OF CYSTICEROSIS

Yeuk-Mui Lee[1], Sowmya Pattabhi[1], Victor A. Kovalenko[2], Sukwan Handali[1], Kathy Hancock[1], Hector H. Garcia[3], Armando E. Gonzalez[4], Robert H. Gilman[5], Victor C. Tsang[1]

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53

DIFFERENTIAL EXPRESSION OF CALRETICULIN DURING THE DEVELOPMENTAL STAGES OF *TAENIA SOLIUM*

Ana Flisser[1], Fela Mendlovic[1], Juan Pedro Laclette[2], Joaquin Carrillo-Farga[3], Jose Torres[3]

[1]Universidad Nacional Autónoma de Mexico (UNAM), Faculty of Medicine, Mexico City, Mexico, [2]Universidad Nacional Autónoma de Mexico (UNAM), Institute of Biomedical Research, Mexico City, Mexico, [3]Institute of Hematopathology, Mexico City, Mexico

(ACMCIP Abstract)

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GENETIC POLYMORPHISM IN *TAENIA SOLIUM* CYSTICERCI RECOVERED FROM EXPERIMENTAL INFECTIONS

Ana Flisser[1], Pablo Maravilla[2], Rosa Gonzalez-Guzman[3], Alvaro Peniche[4], Jose Luis Dominguez-Alpizar[4]

[1]Universidad Nacional Autónoma de Mexico (UNAM), Faculty of Medicine, Mexico City, Mexico, [2]Hospital General "Dr. Manuel Gea Gonzalez", Mexico City, Mexico, [3]Hospital General "Dr. Manuel Gea Gonzalez", Mexico, Mexico, [4]Universidad Autónoma de Yucatán (UADY), Facultad de Medicina Veterinaria y Zootecnia, Merida, Mexico

(ACMCIP Abstract)

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KINETICS OF THE IMMUNE RESPONSE IN THE INTESTINAL MUCOSA OF HAMSTERS INFECTED WITH *TAENIA SOLIUM* ADULT WORMS

Ana Flisser[1], Guillermina Avila[1], Laura Aguilar[1], Sandra Solano[1], Sofia Velasco[1], Mirza Romero[2], Angélica Olivo[2]

[1]Universidad Nacional Autónoma de Mexico (UNAM), Faculty of Medicine, Mexico City, Mexico, [2]Hospital General "Dr. Manuel Gea González", Mexico City, Mexico

(ACMCIP Abstract)

Clinical Tropical Medicine

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ZOONOTIC FILARIASIS IN THE ARABIAN PENINSULA: AUTOCHTHONOUS ONCHOCERCIASIS AND DIROFILARIASIS?

Parsotam R. Hira[1], Adel Al-Buloushi[2], Nabila Khalid[1], Jamshaid Iqbal[1], Odile Bain[3], Mark Eberhard[4]

[1]Department of Microbiology, Kuwait City, Kuwait, [2]Al-Bahar Eye Hospital, Kuwait City, Kuwait, [3]National d'Histoire Naturelle, Paris, France, [5]Centers for Disease Control and Prevention, Atlanta, GA, United States

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RISK FACTORS FOR CLINICAL PROGRESSION OF PRE-ULCERATIVE AMERICAN CUTANEOUS LEISHMANIASIS IN NORTHEASTERN BRAZIL

Alon Unger[1], Paulo R. Machado[2], Luiz H. Guimarães[2], Olivia Bacellar[2], Edgar M. Carvalho[2]

[1]University of California–San Francisco, San Francisco, CA, United States, [2]Hospital Universitário Professor Edgard Santos, Salvador, Brazil

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ACUTE HEPATITIS A IN A YOUNG RETURNING TRAVELLER FROM KENYA DESPITE IMMUNIZATION BEFORE DEPARTURE

Nicolas Senn[1], Blaise Genton[2]

[1]Policlininque Medicale Universitaire, Outpatient Clinic, Madang, Papua New Guinea, [2]Travel Clinic, Policlininque Medicale Universitaire, Outpatient Clinic, Lausanne, Switzerland

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SOLAR DISINFECTION OF DRINKING WATER IS AN EFFECTIVE INTERVENTION AGAINST WATERBORNE DISEASE IN DEVELOPING COUNTRIES OR IN THE AFTERMATH OF NATURAL (OR MAN-MADE) DISASTERS

Kevin G. McGuigan

Royal College of Surgeons in Ireland, Dublin, Ireland

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LABORATORY-BASED SURVEILLANCE FOR ACUTE FEBRILE ILLNESS IN EGYPT: A FOCUS ON LEPTOSPIROSIS

Tina M. Parker[1], Tharwat Ismail[1], Moustafa A. Fadeel[1], Mohamed Abdel Maksoud[1], Myriam Morcos[1], Enas Newire[1], Momtaz O. Wasfy[1], Clinton K. Murray[2], Guillermo Pimentel[1], Nasr El-Sayed[3], Rana Hajjeh[4]

[1]United States Naval Medical Research Unit #3, Cairo, Egypt, [2]United States Army Brooke Army Medical Center Fort Sam Houston, Houston, TX, United States, [3]Ministry of Health and Population, Cairo, Egypt, [4]Centers for Disease Control and Prevention, Atlanta, GA, United States

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[14C]ARTESUNATE TISSUE DISTRIBUTION IN PREGNANT RATS FOLLOWING A SINGLE INTRAVENOUS DOSE WITH WHOLE-BODY AUTORADIOGRAPHY

Yuanzheng Si, Qigui Li, Adam S. Haeberle, Wilbur K. Milhous, Peter J. Weina

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

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HEMATOLOGICAL COMPLICATIONS IN PATIENTS WITH IMPORTED MALARIA HOSPITALIZED AT THE MARGARITA ISLAND, VENEZUELA, 2001-2004

Alfonso J. Rodriguez-Morales[1], Maria V. Ferrer[2], M. A. Barrera[2], M. Pacheco[2], Carlos Franco-Paredes[3]

[1]Instituto Experimental Jose Witremundo Torrealba, Núcleo Universitario de Rafael Rangel (NURR), Universidad de Los Andes, Caracas, Venezuela, [2]Hospital Central Luis Ortega (HCLO), Porlamar, Margarita, Nueva Esparta, Venezuela, [3]Div. Infectious Diseases, Emory University, Atlanta, GA, United States

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MONKEY BITES IN TRAVELERS

John D. Cahill[1], Louise Nøddegaard[2]

[1]St. Lukes Roosevelt Hospital Center, New York, NY, United States, [2]Cabrini Medical Center, New York, NY, United States

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DIFFERENTIATION OF POST-TRAVEL FEVER IN A 25-YEAR-OLD MEDICAL STUDENT

Brent R. Mittelstaedt[1], Brigitte A. Flanagan[2], John Burdick[2], William Perry Baker[3]

[1]Midwestern University-Arizona College of Osteopathic Medicine, Ewing, NJ, United States, [2]Midwestern University-Arizona College of Osteopathic Medicine, Glendale, AZ, United States, [3]Midwestern University-College of Health Sciences, Glendale, AZ, United States

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CUTANEOUS LEISHMANIASIS CAUSED BY *LEISHMANIA MAJOR* IN THE FORESTED VOLTA REGION OF GHANA

Hanafi A. Hanafi[1], John D. Klena[2], David F. Fryauff[3], Gregory A. Raczniak[4], David F. Hoel[5], Naiki Puplampu[6], Maxwell Appawu[6], M. Kweku[7], K. A. Koram[8], Daniel Boakye[6], Michael D. Wilson[6]

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PRAZIQUANTEL BINDS *SCHISTOSOMA MANSONI* ADULT WORM ACTIN

Hatem A- Tallima, Rashika El Ridi

Cairo University, Faculty of Science, Cairo, Egypt

(ACMCIP Abstract)

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AUDIT OF ANTIMALARIAL DRUG PRESCRIBING PRACTICE IN PRIVATE AND PUBLIC HEALTH FACILITIES IN SOUTH-EAST NIGERIA

Martin M. Meremikwu[1], Uduak Okomo[1], Chukwuemeka Nwachukwu[1], Angela Oyo-Ita[1], John Eke-Njoku[1], Joseph Okebe[1], Esu Oyo-Ita[1], Paul Garner[2]

[1]Department of Paediatrics, University of Calabar Teaching Hospital, Calabar, Nigeria, [2]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

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CLINICAL UTILITY OF MONTENEGRO SKIN TEST IN THE DIAGNOSIS OF CUTANEOUS LEISHMANIASIS IN NORTHCENTRAL VENEZUELA

Olinda Delgado[1], Silvia Silva[1], Virginia Coraspe[1], **Alfonso J. Rodriguez-Morales[2]**, Carlos Franco-Paredes[3]

[1]Div. Immunoparasitology, Tropical Medicine Institute, UCV, Caracas, Venezuela, [2]Experimental Institute Jose Witremundo Torrealba, Universidad de Los Andes, Caracas, Venezuela, [3]Div. Infectious Diseases, Emory University, Atlanta, GA, United States

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PUBLIC HEALTH IMPACT OF A RURAL UNIVERSITY IN HAITI

Rosemary Edwards[1], Rubio M. Limonta[2], Vital Gerard[2], Amenold Pierre[2], Brian D. McElroy[2], Daniel Schnorr[2], Jean-Elie Gilles[2], Renate Schneider[2]

[1]University of Pittsburgh, Graduate School of Public Health, Gibsonia, PA, United States, [2]University of Fondwa 2004, Fondwa, Haiti

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REDUCED SERUM CONCENTRATIONS OF RETINOL AND α-TOCOPHEROL AND HIGH CONCENTRATIONS OF HYDROPEROXIDES ARE ASSOCIATED WITH INTENSITY OF *S. MANSONI* INFECTION AND LEVELS OF SCHISTOSOMAL PERIPORTAL FIBROSIS IN ETHIOPIAN SCHOOL CHILDREN

Nega Berhe[1], Bente L. Halvorsen[2], Thomas E. Gundersen[2], Bjørn Myrvang[3], Svein G. Gundersen[4], Rune Blomhoff[5]

[1]Addis Ababa University, Addis Ababa, Ethiopia, [2]Institute of Basic Medical Sciences, University of Oslo, Oslo, Norway, [3]Ullevål University Hospital, Department of Infectious Diseases, Centre for Imported and Tropical Diseases, Oslo, Norway, [4]Sorlandet Hospital HF/Agder University College, Kristiansand, Norway, [5]Institute of Basic Medical Sciences, Department of Nutrition, University of Oslo, Oslo, Norway

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DISSEMINATED BCG INFECTION, A CASE REPORT

Shadi Nourbakhsh, Roxana Mansour Ghanaie, Ahmad Siadati

Milad Hospital, Tehran, Islamic Republic of Iran

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WHAT IS DELUSIONAL PARASITOSIS?

Omar M. Amin

Parasitology Center, Inc., Tempe, AZ, United States

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CASE-CONTROL AND RETROSPECTIVE-COHORT STUDIES IN OUTBREAK INVESTIGATIONS, 1986-2005: AN UPDATE OF A CLASSICAL STUDY

Andres G. Lescano, Joshua M. Michaud, Gabriela Salmon-Mulanovich, Victor Gonzaga, David L. Blazes

US Naval Medical Research Center Detachment (NMRCD), Lima, Peru

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EPIDEMIOLOGY OF AMERICAN CUTANEOUS LEISHMANIASIS IN CHILDREN AND ADOLESCENTS FROM NORTHCENTRAL VENEZUELA

Olinda Delgado[1], Silvia Silva[1], Virginia Coraspe[1], Maria A. Ribas[1], **Alfonso J. Rodriguez-Morales**[2], Carlos Franco-Paredes[3]

[1]Div. Immunoparasitology, Tropical Medicine Institute (IMT), Universidad Central de Venezuela, Caracas, Venezuela, [2]Experimental Institute Jose Witremundo Torrealba, Universidad de Los Andes, Caracas, Venezuela, [3]Div. Infectious Diseases, Emory University, Atlanta, GA, United States

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THE INTEGRATION OF NEGLECTED DISEASE PROGRAMS: PHASE 1 OF AN ONGOING EXERCISE LED BY MINISTRY OF HEALTH PROGRAM COORDINATORS, TOGO

Gabriel A. Anthony[1], Yao K. Sodahlon[1], **Els Mathieu[2]**

[1]Ministry of Health, Lome, Togo, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States

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COMPARATIVE NEUROPATHOLOGY OF THE ARTEMESININ COMPOUNDS ARTEETHER, ARTEMETHER, ARTELINATE, AND ARTESUNATE IN *RATTUS NORVEGICUS*. I. CYTOPATHOLOGY OF THE AUDITORY NUCLEI

J.M. Petras

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

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BURDEN OF MORBIDITY AND MORTALITY ASSOCIATED TO LEISHMANIASIS AND ITS IMPACT ON CHILDHOOD HEALTH IN VENEZUELA

Jesus Benitez[1], Alfonso J. Rodriguez-Morales[2], Pedro M. Rifakis[3], Giovanni Provenza[3], **Ileana Rodriguez[4]**

[1]Ministry of Health, Maracay, Venezuela, [2]Universidad de Los Andes, Caracas, Venezuela, [3]Div. Internal Medicine, Perez de Leon Hospital, Caracas, Venezuela, [4]Div. Pediatrics, West General Hospital, Caracas, Venezuela

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THE TRADITIONAL KINSHIP SYSTEM ENHANCES COMMUNITY INVOLVEMENT AND IMPROVES IVERMECTIN COVERAGE FOR ONCHOCERCIASIS CONTROL IN SOUTHEAST NIGERIA

Chinyere Maduka[1], Emmanuel C. Emukah[2], Emmanuel S. Miri[2], Laz N. Nweke[3], Georgina Udoji[4], Steve Orogwu[5], **Moses N. Katabarwa[6]**, Frank O. Richards[6]

[1]Carter Center, Enugu, Nigeria, [2]Carter Center, Jos, Nigeria, [3]State Ministry of Health, Enugu, Nigeria, [4]State Ministry of Health, Anambra, Nigeria, [5]State Ministry of Health, Ebonyi, Nigeria, [6]Emory University/Carter Center, Atlanta, GA, United States

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RICKETTSIOSIS IN A TRAVELER RETURNING FROM HONDURAS

Lin H. Chen[1], Mary E. Wilson[2]

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DEFINING CHRONIC CIGUATERA ILLNESS BY ABNORMALITIES IN INNATE IMMUNE RESPONSES: FINAL COMMON PATHWAYS OF CHRONIC, BIOTOXIN-ASSOCIATED ILLNESS

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TOXOPLASMA GONDII INFECTION IN THE UNITED STATES, 1999-2004

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Rosmari Rodriguez-Roche[1], Mayling Alvarez[1], Edward C. Holmes[2], Lidice Bernardo[1], Gustavo Kouri Flores[1], Scott B. Halstead[3], Maria G. Guzman[1]

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CIRCULATING DENGUE VIRUS SEROTYPES SINCE THEY ENTERED PERU IN 1990 UNTIL 2006

Victoria Gutierrez, Maria García, **Enrique Mamani**, Marcela Olivares, Omar Cáceres, Cesar Cabezas

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Crisanta Rocha[1], Sheyla Silva[1], Javier Silva[1], Maria Angeles Perez[1], Angel Balmaseda[2], **Eva Harris[3]**

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Yvette A. Girard[1], George F. Mayhew[2], Jeremy F. Fuchs[2], Bradley S. Schneider[1], Thomas A. Rocheleau[2], Bruce M. Christensen[2], Stephen Higgs[1], Lyric C. Bartholomay[2]

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REAL-TIME PCR FOR THE DETECTION OF *BRUGIA* DNA IN BLOOD AND MOSQUITO SAMPLES

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Helminths – Nematodes – Intestinal and Tissue Helminths

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IMPACT OF MASS DRUG ADMINISTRATION ON THE DEVELOPMENT OF RESISTANCE IN HOOKWORM

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A RARE CASE OF TRICHURIS TRICHURA AND HOOKWORM INFESTATION

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Susiji Wickremasinghe[1], Lalani Yatawara[1], Kouji Uda[2], Mitsuru Nagataki[1], Hiroko Yano[3], Jayanthe Rajapakse[4], Yoshiya Watanabe[3], Tomohiko Suzuki[2], Takeshi Agatsuma[1]

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EPIDEMIOLOGY OF HEPATITIS C VIRUS INFECTION AND ASSOCIATION WITH HUMAN IMMUNODEFICIENCY VIRUS AMONG MEN WHO HAVE SEX WITH MEN IN LIMA, PERU

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COMPARATIVE FIELD EVALUATION OF BIFENTHRIN AND PERMETHRIN AS BARRIER TREATMENTS FOR MILITARY TENTS AGAINST MOSQUITOES IN QUEENSLAND, AUSTRALIA

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IDENTIFICATION OF DIFFERENTIALLY REGULATED MOSQUITO PROTEINS — POTENTIAL TARGETS AGAINST FLAVIVIRUSES

Jonathan Cox[1], John F. Anderson[2], Erol Fikrig[1]

[1]Yale University, New Haven, CT, United States, [2]The Connecticut Agricultural Experiment Station, New Haven, CT, United States

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GENETIC POPULATION STRUCTURE IN THE MALARIA VECTOR *ANOPHELES MARAJOARA* IN NORTHEASTERN SOUTH AMERICA

Jan E. Conn[1], Cong Li[2], Marinete M. Povoa[3], Richard C. Wilkerson[2]
[1]Wadsworth Center, NYSDOH, Slingerlands, NY, United States, [2]Walter Reed Army Institute of Research, Suitland, MD, United States, [3]Instituto Evandro Chagas, Belem, Brazil

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TRANSCRIPTOME ANALYSIS OF ARMIGERES SUBALBATUS-*BRUGIA MALAYI* INTERACTIONS

Matthew T. Aliota[1], Jeremy F. Fuchs[1], George F. Mayhew[1], Cheng C. Chen[2], Bruce M. Christensen[1]
[1]University of Wisconsin, Madison, WI, United States, [2]National Yang-Ming University, Taipei, Taiwan

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THE DISTRIBUTION OF HATCHING TIME IN *ANOPHELES GAMBIAE*

Alpha S. Yaro
Malaria Research Training Center FMPOS, Bamako, Mali

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ECOLOGY, GENETICS, AND TRANSMISSION OF *PLASMODIUM FALCIPARUM* BY *ANOPHELES ARABIENSIS* IN MACHA, ZAMBIA

Rebekah J. Kent[1], Sungano Mharakurwa[2], Philip Thuma[2], Douglas E. Norris[1]
[1]The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]The Malaria Institute at Macha, Macha, Zambia

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IDENTIFICATION AND DISTRIBUTION OF THE MOLECULAR FORMS OF *ANOPHELES GAMBIAE SENSU STRICTU* CAPTURED RESTING OUTDOORS IN VARIOUS HABITATS OF KASSENA NANKANA DISTRICT (KND) IN THE UPPER EAST REGION OF GHANA

Kwadwo K. Frempong[1], Delali Donkor[1], Beverly Egyir[1], Charles Brown[1], Millicent Cobblah[2], Maxwell Appawu[1]
[1]Parasitology Department, Noguchi Memorial Institute for Medical Research, University of Ghana, Accra, Ghana, [2]Zoology Department, University of Ghana, Accra, Ghana

(ACMCIP Abstract)

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FLUCTUATING VERSUS CONSTANT TEMPERATURES: IMPACT ON DEVELOPMENT AND SURVIVAL OF *AEDES AEGYPTI* AND *AEDES ALBOPICTUS* AND IMPLICATIONS FOR DISEASE MODELING

Constantianus J. Koenraadt, Hong-Fei Gong, Johnathan L. Licitra, Nishant Soni, Art DeGaetano, Laura C. Harrington
Cornell University, Ithaca, NY, United States

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BITING BEHAVIOR OF *ANOPHELES DARLINGI* (ROOT) IN THE SOUTHERN AMERINDIAN REGION OF SURINAME

Helene Hiwat, Sutrisno Mitro
Global Fund Malaria Program Suriname, Paramaribo, Suriname

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SPATIAL AND TEMPORAL PATTERNS IN THE RECOVERY OF *AEDES AEGYPTI* POPULATIONS AFTER INSECTICIDE TREATMENT

Constantianus J. Koenraadt[1], Jared Aldstadt[2], Udom Kijchalao[3], Ampornpan Kengluecha[3], James W. Jones[3], Thomas W. Scott[4]
[1]University of California, Ithaca, NY, United States, [2]San Diego State University, San Diego, CA, United States, [3]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [4]University of California, Davis, CA, United States

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FOCAL POPULATION GENETICS AND DENGUE VECTOR COMPETENCE OF *AEDES AEGYPTI* IN TRINIDAD, WEST INDIES

Ryan R. Hemme[1], Dave D. Chadee[2], Dave W. Severson[1]
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BITING PATTERN OF A DENGUE VECTORS, *AEDES AEGYPTI* AND *AEDES ALBOPICTUS* IN URBAN AND RURAL GRADIENT IN CHIANG MAI PROVINCE, NORTHERN THAILAND

Wannapa Suwonkerd[1], Nantawan Suwannachote[1], Thum Boonti[1], Theeraphap Charoenviriyaphap[2]
[1]Office of Disease Prevention and Control, Ministry of Public Health, Chiang Mai, Thailand, [2]Department of Entomology, Faculty of Agriculture, Bangkean, Bangkok, Thailand

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COMPARATIVE RESPONSES OF MOSQUITO VECTORS OF WEST NILE VIRUS TO LIGHT TRAPS AUGMENTED WITH CHEMICAL ATTRACTANT AND TO HUMAN HOSTS

Donald Barnard, Sandra Allan, Ulrich Bernier, Daniel Kline, Gary Clark, Kenneth Linthicum
US Department Agriculture, Gainesville, FL, United States

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DEVELOPMENT AND CHARACTERIZATION OF A PANEL OF SINDBIS VIRUS-BASED TRANSDUCING SYSTEMS EXPRESSING DIFFERENT FLUORESCENT PROTEINS AS MARKERS OF INFECTION IN *AEDES AEGYPTI* MOSQUITOES

Chris M. Cirimotich, Dennis J. Pierro, Ken E. Olson
Colorado State University, Fort Collins, CO, United States

Mosquitoes – Vector Biology – Epidemiology

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OVIPOSITION ACTIVITY PATTERNS AND WEST NILE VIRUS INFECTION RATES FOR MEMBERS OF THE *CULEX PIPIENS* COMPLEX AT DIFFERENT HABITAT-TYPES WITHIN THE HYBRID ZONE, SHELBY COUNTY, TN, 2002 (DIPTERA: CULICIDAE)

Harry M. Savage

Centers for Disease Control and Prevention, Ft. Collins, CO, United States

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THE INFLUENCE OF HOUSE CONSTRUCTION ON THE INDOOR ABUNDANCE OF MOSQUITOES: A PRELIMINARY STUDY

Paul I. Howell[1], David Chadee[2]

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DISTINGUISHING DISEASE SPREADING ANOPHELES SIBLING SPECIES IN PAPUA NEW GUINEA USING DNA-BASED ASSAYS

Emily L. Goldman[1], Melinda Susapu[2], Daphne Sepe[2], Moses J. Bockarie[1], David T. McNamara[1], Peter A. Zimmerman[1]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Papua New Guinea Institute for Medical Research, Madang, Papua New Guinea

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IMPLICATIONS OF HYBRIDIZATION, FEEDING BEHAVIOR AND PARITY RATES OF *Culex pipiens* ON WEST NILE VIRUS ACTIVITY AT A STABLE ENZOOTIC STUDY SITE

Linda-Lou O'Connor[1], John B. Gingrich[1], Dina Fonseca[2], Thomas R. Unnasch[3]

[1]University of Delaware, Newark, DE, United States, [2]Academy of Natural Sciences, Philadelphia, PA, United States, [3]University of Alabama at Birmingham, Birmingham, AL, United States

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AN AUTOMATED GIS/REMOTELY SENSED EARLY WARNING SYSTEM TO DETECT ELEVATED POPULATIONS OF VECTORS OF RIFT VALLEY FEVER, A MOSQUITO-BORNE EMERGING VIRUS THREAT

Seth C. Britch, **Kenneth J. Linthicum**

USDA-ARS/CMAVE, Gainesville, FL, United States

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ENVIRONMENTAL ABUNDANCE OF *ANOPHELES* (DIPTERA: CULICIDAE) LARVAL HABITATS ON LAND COVER CHANGE SITES IN KARIMA VILLAGE, MWEA RICE SCHEME, KENYA

Benjamin G. Jacob

Illinois Natural History Survey, Champaign, IL, United States

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TESTING THE EFFICACY OF A NOVEL STICKY TRAP IN COLLECTING *AEDES* ADULTS IN A DENGUE-ENDEMIC AREA IN THAILAND

Luca Facchinelli[1], Constantianus J. Koenraadt[2], Udom Kijchalao[3], Laura Valerio[1], James W. Jones[3], Thomas W. Scott[4], Alessandra della Torre[1]

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THE POTENTIAL SIGNIFICANCE OF "INDIRECT TRANSOVARIAL/TRANSSTADIAL TRANSMISSION" AND INFECTED MALE *AEDES MCINTOSHI* MOSQUITOES IN THE ENDEMIC MAINTENANCE AND AMPLIFICATION OF RIFT VALLEY FEVER VIRUS

William S. Romoser[1], Marco Neira[2], Calvin B. James[1]

[1]Ohio University, College of Osteopathic Medicine, Tropical Disease Institute, Athens, OH, United States, [2]The Whitney Laboratory, University of Florida, St. Augustine, FL, United States

Protozoa – Ameba/Giardia

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GENETIC DIVERSITY OF *GIARDIA LAMBLIA* CYST WALL PROTEIN 1 GENE FROM KOREA ISOLATES AND CHARACTERIZATION OF RECOMBINANT PROTEIN EXPRESSED IN *E. COLI*

Chang Mi Oh[1], Hyeong Woo Lee[1], Shin Hyeong Cho[1], Jung Yeon Kim[1], Seung Ung Moon[1], Hye Sun Ryu[1], Young Hee Lee[1], Gi Sik Min[2], Tong Soo Kim[1]

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(ACMCIP Abstract)

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EHGEF2, A NEW DBL-RHOGEF FROM *ENTAMOEBA HISTOLYTICA* CONTAINING *ARMADILLO*-LIKE REPEATS: OVERALL CHARACTERIZATION AND ITS POSSIBLE PARTICIPATION IN ERYTHROPHAGOCYTOSIS, PROLIFERATION AND CHEMOTAXIS

Claudia H. González De la Rosa[1], Ma. De Jesús Almaráz Barrera[1], Arturo Rojo Domínguez[2], Martha Robles Flores[3], Miguel Vargas[1]

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(ACMCIP Abstract)

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CHANGES IN BACTERIAL PROFILE DURING AMEBIASIS

Jaishree Paul[1], Rekha Rani[1], Vineet Ahuja[2], Sudha Bhattacharya[1]

[1]Jawaharlal Nehru University, Delhi, India, [2]All India Institute of Medical Sciences, Delhi, India

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ELECTROPHORETIC ISOLATION OF *ENTAMOEBA*

***HISTOLYTICA* AND *ENTAMOEBA DISPAR* FROM STOOL SAMPLES IN SOUTHERN PART OF IRAN**

Nematallah Sahebani, *Hatam Gholamreza University, Shiraz, Islamic Republic of Iran*

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A NOVEL NESTED MULTIPLEX POLYMERASE CHAIN REACTION (PCR) ASSAY FOR DIFFERENTIAL DETECTION OF *ENTAMOEBA HISTOLYTICA, E. MOSHKOVSKII* AND *E. DISPAR* DNA IN STOOL SAMPLES

Krishna S. Khairnar, Subhash Chandra Parija
Jawaharlal Institute of Post Graduate Medical Education and Research, Pondicherry, India

Protozoa – Opportunistic Protozoa

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***CRYPTOSPORIDIUM* INFECTION OF HUMAN INTESTINAL TISSUES CAUSES INCREASED EXPRESSION OF THE OSTEOPROTEGERIN (A TNF RECEPTOR FAMILY SECRETED DECOY RECEPTOR)**

Alejandro Castellanos, Linda S. Yancey, Huey-Ching H. Wang, Kathleen R. Liscum, A. Clinton White, Jr.
Baylor College of Medicine, Houston, TX, United States

(ACMCIP Abstract)

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REAL TIME PCR: A SENSITIVE METHOD FOR DETECTION OF *BABESIA MICROTI* IN BLOOD DONOR SAMPLES

Laura Tonnetti[1], Megan L. Nguyen[1], Stephanie T. Johnson[2], Ritchard G. Cable[2], David A. Leiby[1]
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(ACMCIP Abstract)

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MIXED PROTOZOAN INFECTION IN CROSS BRED COWS

Prince Y. Singh[1], M. P. Gupta[2], L. D. Singla[2]
[1]PAU, DLudhiana, India, [2]PAU, Ludhiana, India

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PREVALENCE OF MICROSPORIDIA IN STOOL SAMPLES OF HOSPITAL PATIENTS AND SCHOOL CHILDREN IN THE VHEMBE DISTRICT, LIMPOPO PROVINCE, SOUTH AFRICA

Amidou Samie[1], Larry Obi[1], Leah Barrett[2], Saul Tzipori[3], Richard L. Guerrant[2]
[1]University of Venda for Science and Technology, Thohoyandou, South Africa, [2]University of Virginia, Charlottesville, VA, United States, [3]Tufts University School of Veterinary Medicine, Grafton, MA, United States

Trematodes – Other

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MOLECULAR CLONING AND CHARACTERIZATION OF A MEMBER OF THE *FASCIOLA HEPATICA* FERRITIN-LIKE PROTEIN FAMILY EXPRESSED AT EARLY STAGE OF INFECTION

Julia Quetel, Daricel Torres, **Ana M. Espino**
University of Puerto Rico, School of Medicine, San Juan, Puerto Rico

(ACMCIP Abstract)

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MAPPING OF B-CELL EPITOPES ON A NOVEL 11.5KDA *FASCIOLA HEPATICA/SCHISTOSOMA MANSONI* CROSS-REACTIVE ANTIGEN BELONGING TO A MEMBER OF THE *F. HEPATICA* SAPOSIN-LIKE PROTEIN FAMILY

Daricel Torres, **Ana M. Espino**
University of Puerto Rico, School of Medicine, San Juan, Puerto Rico

(ACMCIP Abstract)

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IDENTIFICATION OF CD4$^+$ T-CELL EPITOPES FROM *FASCIOLA HEPATICA* 11.5KDA SAPOSIN-LIKE PROTEIN, A VACCINE CANDIDATE

Ana M. Espino[1], Daricel Torres[1], Cristina Jimenez[1], Julia Quetel[1], Adelaida Morales[1], Bonnibel Delgado[1], Antonio Osuna[2]
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(ACMCIP Abstract)

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GENE EXPRESSION PROFILE OF GAMMA-RAY IRRADIATED *CLONORCHIS SINENSIS* METACERCARIAE

Sung-Jong Hong, Pyo Yun Cho, Tae Im Kim, Shunyu Li, Shin-Yong Kang
Chung-Ang University, Seoul, Republic of Korea

Trematodes – Schistosomiasis

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CIRCULATING CALCIUM-BINDING PROTEINS (MRP-8 AND MRP-14) IN MURINE SCHISTOSOMIASIS

Jack Preis, Anthony Lubinsky, **M. A. Haseeb**
State University of New York, Brooklyn, NY, United States

(ACMCIP Abstract)

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PREVALENCE AND INTENSITY OF URINARY TRACT SCHISTOSOMIASIS AND ASSOCIATED BACTERIAL INFECTIONS IN EBONYI LGA OF EBONYI STATE NIGERIA

Campbell Akujobi, Chinwe Eyiuche Iheanacho
Federal University of Technology, Owerri, Owerri Imo State, Nigeria

Viruses – Other

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MOLECULAR DETECTION AND SEQUENCE ANALYSIS OF A NEW HEPATITIS E VIRUS ISOLATE FROM PAKISTAN

Junkun He

Armed Forces Institute of Pathology, Rockville, MD, United States

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CHARACTERIZATION OF MONOCLONAL ANTIBODIES TO HEPATITIS E VIRUS (HEV) CAPSID PROTEIN AND IDENTIFICATION OF THEIR BINDING AND NEUTRALIZATION ACTIVITIES

Junkun He[1], David W. Vaughn[2], Vincent Dewar[3], Pierre Voet[3]

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RAPID RESPONSE TO A CASE OF MUMPS PREVENTS AN OUTBREAK AT A RESEARCH FACILITY

Gabriela Salmón-Mulanovich[1], Gregory C. Utz[2], Andrés G. Lescano[3], David L. Blazes[3]

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PROTECTION AGAINST HEPATITIS A AND B WITH A COMBINATION VACCINE ADMINISTERED USING AN ACCELERATED ADMINISTRATION SCHEDULE

Bradley A. Connor

The New York Center for Travel and Tropical Medicine, New York, NY, United States

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DEVELOPMENT AND CHARACTERIZATION OF RECOMBINANT ARENAVIRUS PROTEINS AND VIRUS-SPECIFIC MONOCLONAL ANTIBODIES FOR USE IN DIAGNOSTIC AND THERAPEUTIC APPLICATIONS: AN INTEGRATED APPROACH TO PUBLIC HEALTH AND BIODEFENSE

Joseph N. Fair[1], Luis Branco[2], Darryl Sampey[2], Alex Matschiner[2], Corina Monagin[3], Kathleen Cashman[4], Philip Ferro[4], Augustin Goba[5], Daniel Bausch[3], Russell Wilson[6], Robert Garry[3], Mary Guttieri[4]

[1]Tulane University, Ft. Detrick, MD, United States, [2]Biofactura, Inc, Rockville, MD, United States, [3]Tulane University, New Orleans, LA, United States, [4]USAMRIID, Ft. Detrick, MD, United States, [5]Lassa Fever Laboratory, Kenema Government Hospital, Kenema, Sierra Leone, [6]Autoimmune Technologies, Inc, New Orleans, LA, United States

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RISK FACTORS FOR MONKEYPOX ILLNESS DURING AN OUTBREAK IN THE UNITED STATES, 2003

Whitni Davidson[1], Mary Reynolds[1], Aaron Curns[1], Craig Conover[2], Gregory Huhn[3], Jeffrey P. Davis[4], Mark Wegner[4], Donita Croft[4], Alexandra Newman[4], Nkolika Obiesie[5], Gail Hansen[5], Pat Haynes[5], Pam Pantones[6], Brad Beard[6], Robert Teclaw[6], James Howell[6], Zachery Braden[1], Robert Holman[1], Kevin Karem[1], Inger Damon[1]

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SMALLPOX RESEQUENCING GENECHIP HYBRIDIZATION CAN DETECT HUMAN COWPOX VIRUS

Irshad M. Sulaiman, Scott A. Sammons, Robert M. Wohlhueter

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ECOLOGICAL CORRELATES OF BUGGY CREEK VIRUS INFECTION IN CIMICID SWALLOW BUGS *OECIACUS VICARIUS*, SOUTHWESTERN NEBRASKA, 2004

Amy Moore[1], Eric A. Edwards[2], Mary Bomberger Brown[1], Nicholas Komar[2], Charles R. Brown[1]

[1]University of Tulsa, Tulsa, OK, United States, [2]Division of Vector-borne Infectious Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States

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MULTIPLEX REAL-TIME RT-PCR SHOWS A WEAK RELATIONSHIP BETWEEN PLAQUE GROWTH AND VIRUS CONCENTRATION FOR BUGGY CREEK VIRUS

Jerome Foster[1], Amy Moore[1], Eric A. Edwards[2], Nicholas Komar[3], Kenton S. Miller[1], Charles R. Brown[1]

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(ACMCIP Abstract)

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PHYLOGENETIC ANALYSIS OF BUGGY CREEK VIRUS: EVIDENCE FOR MULTIPLE CLADES IN THE WESTERN GREAT PLAINS, U.S.A.

Martin Pfeffer[1], **Jerome Foster[2]**, Eric A. Edwards[3], Mary Bomberger Brown[2], Nicholas Komar[3], Charles R. Brown[2]

[1]Bundeswehr Institute of Microbiology, Neuherbergstrasse, Munich, Germany, [2]University of Tulsa, Tulsa, OK, United States, [3]Division of Vector-Borne Infectious Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States

(ACMCIP Abstract)

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A CLINICAL STUDY TO ASSESS THE SAFETY AND IMMUNOGENICITY OF ATTENUATED MEASLES VACCINE ADMINISTERED INTRANASALLY TO HEALTHY ADULTS

Jakub K. Simon[1], Marcela F. Pasetti[1], Jean-François Viret[2], Alma Muñoz[3], Rosanna Lagos[3], Myron M. Levine[1], James D. Campbell[1]

[1]Division of Infectious Disease and Tropical Pediatrics, Department of Pediatrics, Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD, United States, [2]Berna Biotech Ltd., Bern, Switzerland, [3]Center for Vaccine Development, Hospital Roberto del Rio, Santiago, Chile

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ULTRASTRUCTURAL PATHOLOGY OF THE LUNGS OF SYRIAN HAMSTERS INFECTED WITH ANDES VIRUS

Ludmila V. Asher, Victoria Wahl-Jensen, Michael Zimmerman, Tom Larsen, Jay W. Hooper

U.S. Army Medical Research Institute of Infectious Diseases, Ft. Detrick, MD, United States

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PREVALENCE OF IGG AGAINST SELECTED ARBOVIRUSES AMONG PATIENTS ADMITTED WITH FEBRILE ILLNESSES AT THREE HOSPITALS IN KENYA

Rodney L. Coldren[1], Victor O. Ofula[2], Clayton Onyango[2], Nicholas Adungo[3], Jane Mbui[4]

1USAMC-Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, 2US Army Medical Research Unit - Kenya, Nairobi, Kenya, 3KEMRI Centre for Infectious and Parasitic Disease Control Research, Busia, Kenya, 4KEMRI Centre for Clinical Research, Nairobi, Kenya

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Clinical Group Education Curriculum Committee Meeting

Room 3914

Monday, November 13 Noon – 1:30 p.m.

Certificate Exam Executive Committee

Room 3908

Monday, November 13 12:15 p.m. – 1:15 p.m.

Clinical Group Board Certification Committee Meeting

Room 3934

Monday, November 13 12:15 p.m. – 1:15 p.m.

Meet the Professors 21

Meet the Professors B: Enigmatic and Teaching Cases

International 5/6

Monday, November 13 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.

SERIES ORGANIZER

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

PANELISTS

Herbert DuPont

St Luke's Episcopal Hospital Internal Medical Services, Houston, TX, United States

Alan Magill

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

Mid-Day Session 21A

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

Copenhagen/Stockholm/Amsterdam

Monday, November 13 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 ASTMH 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

American Journal of Tropical Medicine & Hygiene, *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

12:25 p.m.

MANUSCRIPT PROCESSING AT AJTMH

Cathi Siegel

American Journal of Tropical Medicine and Hygiene, *Cleveland, OH, United States*

12:35 p.m.

WHAT CONSTITUTES A WELL VERSUS POORLY WRITTEN MANUSCRIPT? RESPONDING TO REVIEWERS' COMMENTS

James Kazura[1], Joe Vinetz[2]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]University of California at San Diego, San Diego, CA, United States

12:45 p.m.

THE GOOD, BAD, AND UGLY OF THE REVIEW: EDITORIAL, CORRESPONDING AUTHOR AND REVIEWER PERSPECTIVES

James Kazura[1], Joe Vinetz[2], Cathi Siegel[3]

*[1]Case Western Reserve University, Cleveland, OH, United States, [2]University of California at San Diego, San Diego, CA, United States, [3]*American Journal of Tropical Medicine & Hygiene, *Cleveland, OH, United States*

12:55 p.m.

OPEN FORUM WITH AUDIENCE

Mid-Day Session 22

Tropical Medicine and the Media

Marquis 3

Monday, November 13 12:15 p.m. – 1:15 p.m.

Please note that CME credit is not offered for this session.

Popular books, newspaper, and magazine articles can have a powerful impact on the public's understanding of global health. ASTMH has demonstrated its commitment to outstanding tropical medicine journalism through the creation of an annual Communications Award. This interactive session will feature two nationally-known journalists who have written extensively about diseases of the developing world, in some cases researching, interviewing and reporting directly from the field. Each panelist will discuss recent works and the process by which stories are developed, written and edited. The session will conclude with a question and answer period.

CHAIR

Claire Panosian

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

12:15 p.m.

INTRODUCTION

Claire Panosian

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

12:25 p.m.

MEDIA REPRESENTATIVE

Donald McNeil, Jr.

New York Times, *New York, NY, United States*

12:45 p.m.

ASTMH COMMUNICATIONS AWARD COMMITTEE MEMBER

Jon Cohen

Science Magazine, *Cardiff-by-the-Sea, CA, United States*

Mid-Day Session 23

AIDS at 25 and Beyond: Treat, Protect and Prevent

Supported with funding from GlaxoSmithKline

Marquis 4

Monday, November 13 12:15 p.m. – 1:15 p.m.

Varied social factors, such as sex and sexuality, gender and economic inequalities and drug use drive differences in the HIV epidemic. Despite availability of preventive measures, such as condoms, needle exchange, blood screening and antiretroviral therapy for the reduction of viral load and the prevention of mother to child transmission (pMTCT), alternatives are needed as HIV infections increase yearly. Public-private partnerships are a critical component to effectively treat and prevent HIV infection, progression and transmission in the resource poor setting.

SYMPOSIUM ORGANIZER

Peter G. Borrett

Hera.Com, Richmond, United Kingdom

CHAIR

Richard Harrigan

University of British Columbia, Vancouver, BC, Canada

12:15 p.m.

PREVENTION OF HIV TRANSMISSION: PLANNING FOR THE FUTURE

Richard Harrigan

University of British Columbia, Vancouver, BC, Canada

12:45 p.m.

EXPERIENCE IN HIV/AIDS AND TUBERCULOSIS IN RESOURCE-LIMITED SETTINGS

Humphrey Shao

Duke University, Durham, NC, United States

Mid-Day Session 24

Disaster Medicine

Marquis 1

Monday, November 13 12:15 p.m. – 1:15 p.m.

Dr. Christopher Sanford will discuss the medical operation at the New Orleans Airport immediately following Hurricane Katrina. Dr. Mark Oberle will describe his relief work on Phuket, Thailand, where he was vacationing at the time of the tsunami in December of 2004. Dr. Vernon Ansdell will discuss his recent work in the Philippines following a massive mudslide.

CHAIR

Christopher Allen Sanford

University of Washington, Seattle, WA, United States

12:15 p.m.

WHEN THE LEVEE BREAKS: LESSONS LEARNED FROM HURRICANE KATRINA

Christopher Allen Sanford
University of Washington, Seattle, WA, United States

12:35 p.m.

TSUNAMI IN SOUTHERN THAILAND

Mark W. Oberle
University of Washington, Seattle, WA, United States

12:55 p.m.

MEDICAL RESPONSE TO THE MUDSLIDE IN THE PHILIPPINES

Vernon Ansdell
Kaiser Permanente, Honolulu, HI, United States

Poster Session A Viewing

International and Skyline Levels

Monday, November 13 1:30 p.m. – 7 p.m.

Scientific Session 25

Bacteriology I — Diarrhea I

International 4

Monday, November 13 1:30 p.m. – 3:15 p.m.

CHAIR
Adam Armstrong
NAMRU-3, Cairo, Egypt

Mickey Bridges
Vanson Halosource Inc., Redmond, WA, United States

1:30 p.m.

286

EFFICACY OF DNA EXTRACTION AND REAL TIME PCR FOR DETECTION OF PLASMID *IPAH* OF *SHIGELLA SPP.* IN UNIDENTIFIED LYOPHILIZED STOOL SAMPLES

Aybek V. Khodiev[1], Gulnara A. Ibadova[1], R. Phasuk[2], K. Nakjarung[2], L. Bodhidatta[2]
[1]SRIEMID, Tashkent, Uzbekistan, [2]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

(ACMCIP Abstract)

1:45 p.m.

287

HIGH RATES OF CARRIAGE OF DRUG-RESISTANT *ENTEROBACTERIACEAE* IN HEALTHY VOLUNTEERS IN HO CHI MINH CITY

Minh Vien T. Le[1], My Linh Nguyen Le[1], Jim Campbell[1], Thanh Truong Nguyen[2], Dung Nguyen Thi[2], Christiane Dolecek[1], Constance Schultsz[1]
[1]Oxford University Clinical Research Unit, Hospital for Tropical Diseases, Vietnam, Ho Chi Minh, Vietnam, [2]Hospital for Tropical Diseases, Vietnam, Ho Chi Minh, Vietnam

2 p.m.

288

IS NALIDIXIC ACID-RESISTANCE LINKED TO CLINICAL VIRULENCE IN *SALMONELLA ENTERICA* SEROTYPE *TYPHI* INFECTIONS?

Tamilarasu Kadhiravan, Naveet Wig, K. Renuka, Arti Kapil, Sushil K. Kabra, Anoop Misra
All India Institute of Medical Sciences, New Delhi, India

2:15 p.m.

289

ENTEROINVASIVE *ESCHERICHIA COLI* ISOLATED FROM EGYPTIAN CHILDREN WITH ACUTE GASTROENTERITIS ARE MULTI-DRUG RESISTANT AND ENCODE FOR MULTIPLE VIRULENCE FACTORS

Rania A. Nada[1], Zaynab Mohran[1], John D. Klena[1], Sohair A. Mostaafa[2], Hind I. Shaheen[1], Shannon D. Putnam[1], Mark S. Riddle[1], Marshall R. Monteville[1]
[1]NAMRU-3, FPO, AE, United States, [2]Ain Shams University, Cairo, Egypt

2:30 p.m.

290

PROTEOMIC ANALYSIS OF *IN VIVO* EXPRESSED AND IMMUNOGENIC PROTEINS OF *VIBRIO CHOLERAE*

Regina C. LaRocque[1], Jason B. Harris[1], Bryan Krastins[2], Edward T. Ryan[1], David Sarracino[2], Firdausi Qadri[3], Stephen B. Calderwood[1]
[1]Massachusetts General Hospital, Boston, MA, United States, [2]Harvard-Partners Center for Genetics and Genomics, Boston, MA, United States, [3]International Center for Diarrheal Disease Research, Dhaka, Bangladesh

2:45 p.m.

291

TRANSCUTANEOUS IMMUNIZATION WITH A NEOGLYCOCONJUGATE CONTAINING A *VIBRIO CHOLERAE* HEXASACCHARIDE DERIVED FROM *V. CHOLERAE* O1 OGAWA LIPOPOLYSACCHARIDE BOUND TO A PROTEIN CARRIER

Julianne E. Rollenhagen[1], Anuj Kalsy[1], Rina Saksena[2], Firdausi Qadri[3], Stephen B. Calderwood[1], Paul Kovac[2], William Wade[4], **Edward T. Ryan[1]**
[1]Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, [2]National Institute of Diabetes and Digestive and Kidney Diseases, Laboratory of Medicinal Chemistry, Carbohydrates, National Institutes of Health, Bethesda, MD, United States, [3]International Centre for Diarrheal Disease Research, Bangladesh (ICDDR,B), Centre for Health and Populations Studies, Dhaka, Bangladesh, [4]Dartmouth Medical School, Hanover, NH, United States

3 p.m.

292

BROMINATED POLYSTYRENE-HYDANTOIN BEADS FOR LOW-COST, HOUSEHOLD DISINFECTION OF DRINKING WATER

Michael Bridges[1], David Dunk[1], Jose Santiago[1], N. VanKirk[1], B. Kawai[1], A. Chen[1], Charles D. Mackenzie[2], Carol Flegler[2], David Worley[3], Jeffrey F. Williams[1]
[1]Vanson Inc., Redmond, WA, United States, [2]Michigan State University, East Lansing, MI, United States, [3]Auburn University, Auburn, AL, United States

Symposium 26

Coordination of Research to Achieve Successful Control of Malaria in Pregnancy

International 7

Monday, November 13 1:30 p.m. – 3:15 p.m.

This symposium is designed to present the current state-of-knowledge and key research gaps to successful control of malaria in pregnancy (MiP). The speakers represent a larger MiP working group that has been tasked to develop a prioritized research strategy for future MiP studies. This symposium will present an update on the current state of knowledge on MiP in the following areas: 1) epidemiology and burden of disease; 2) immunity and pathophysiology; 3) preclinical data and pharmacokinetics of antimalarial drugs; and 4) prevention.

CHAIR

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

Robert D. Newman
Centers for Disease Control and Prevention, Atlanta, GA, United States

1:30 p.m.

INTRODUCTION

Meghna Desai, Robert Newman
Centers for Disease Control and Prevention, Atlanta, GA, United States

1:35 p.m.

THE MALARIA IN PREGNANCY CONSTORTIUM

Feiko O. ter Kuile
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

1:55 p.m.

THE EPIDEMIOLOGY AND BURDEN OF MALARIA IN PREGNANCY

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

2:15 p.m.

PATHOGENESIS AND IMMUNITY OF MALARIA IN PREGNANCY

Steven Rogerson
University of Melbourne, Parkville, Australia

2:35 p.m.

PHARMACOVIGILANCE, SAFETY AND PHARMACOKINETICS OF ANTIMALARIALS IN PREGNANCY

Steve Ward
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

2:55 p.m.

CONTROL OF MALARIA IN PREGNANCY

Clara Menendez
Center for International Health, Barcelona, Spain

Symposium 27

The Interdisciplinary Monitoring for Antimalarial Combination Therapy in Tanzania: Lessons from the Routine Use of Artemisinin-Containing Antimalarial Combination Therapy in Sub-Saharan Africa

International 5/6

Monday, November 13 1:30 p.m. – 3:15 p.m.

Since 2000, Centers for Disease Control and Prevention and the Ifakara Health Research and Development Centre have assisted the National Malaria Control Programme with investigating recommended and alternative treatment regimens. In late 2001, chloroquine was replaced by sulfadoxine/pyrimethamine (SP) for first line treatment. However, health officials were interested in gaining experience with artemisinin-containing combination therapies (ACT)s. Accordingly in early 2003, SP plus artesunate became the first-line treatment for malaria in Rufiji District, a holoendemic rural area with a population of 200,000 people. To date more than 1,000,000 doses have been provided. Trends in health facility utilization, malaria prevalence, morbidity and mortality from malaria have been tracked closely in Rufiji District, as well as adjacent districts where monotherapy has been used consistently since 2001. This symposium will provide the first comprehensive insight into the challenges and potential benefits that can be expected as ACTs roll out across the continent.

CHAIR

S. Patrick Kachur
Centers for Disease Control and Prevention/Ifakara Health Research and Development Centre (IHRDC) Malaria Program in Tanzania

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

1:30 p.m.

INTRODUCTION

S. Patrick Kachur, Peter Brent Bloland
Centers for Disease Control and Prevention Malaria Programme in Tanzania, Dar es Salaam, United Republic of Tanzania

1:45 p.m.

CHANGES IN HEALTH FACILITY UTILIZATION AND COMMUNITY PERCEPTIONS ASSOCIATED WITH THE ROUTINE AVAILABILITY AND USE OF ACT

Rashid Ali Khatib
Ifakara Health Research and Development Centre, Ifakara, United Republic of Tanzania

2 p.m.

INTRODUCTION AND MANAGEMENT OF ACT INTERVENTION IN RUFIJI DISTRICT, TANZANIA

S. Patrick Kachur
Centers for Disease Control and Prevention/Ifakara Health Research and Development Centre (IHRDC) Malaria Program in Tanzania, Dar es Salaam, United Republic of Tanzania

2:15 p.m.

PREVALENCE OF MALARIA PARASITEMIA, FEBRILE ILLNESS, AND MALARIA-RELATED ANEMIA AMONG POPULATIONS RECEIVING ACT OR CONVENTIONAL MONOTHERAPY

Salim M. K. Abdulla

Ifakara Health Research and Development Centre, Ifakara, United Republic of Tanzania

2:30 p.m.

TRENDS IN ANTIMALARIAL DRUG RESISTANCE AND MOLECULAR MARKERS FOR ANTIMALARIAL DRUG RESISTANCE BEFORE, DURING AND AFTER INTRODUCTION OF NEW MALARIA TREATMENT PRACTICES

Allen Malisa

Ifakara Health Research and Development Centre, Ifakara, United Republic of Tanzania

2:40 p.m.

TRENDS IN ANTIMALARIAL DRUG RESISTANCE AND MOLECULAR MARKERS FOR ANTIMALARIAL DRUG RESISTANCE BEFORE, DURING AND AFTER INTRODUCTION OF NEW MALARIA TREATMENT PRACTICES

Cally Roper

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

2:50 p.m.

DISCUSSION

Symposium 28

Social and Political Issues in Tropical Medicine

Copenhagen/Stockholm/Amsterdam

Monday, November 13 1:30 p.m. – 3:15 p.m.

The members of the ASTMH logically focus the bulk of their scientific endeavors on entities that exist in tropical or "developing" countries. In addition to classic tropical disease pathogens, residents of these countries often combat a complicated host of social and political problems, including civil strife, unstable transitions of government and extreme poverty. In order to conduct our work ethically and efficiently, we must realize that these countries represent much more than simply sources of pathogens not commonly found in the industrialized world. In fact, the prevalent health issues and socio-political environment are often inextricably linked. This session is designed to provide an open forum for presentation and discussion of pertinent social and political issues related to tropical medicine research and development.

CHAIR

Frank Mannix

Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States

Frederique A. Jacquerioz

Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States

1:30 p.m.

INTRODUCTION

Frank Mannix, Frederique Jacquerioz

Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States

1:40 p.m.

PROGRESS IN THE SOCIOPOLITICAL WAR ON TROPICAL DISEASES: 5 YEAR FOLLOW-UP TO A PRESIDENTIAL ADDRESS

Michele Barry

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

2:05 p.m.

THE CHALLENGE OF GLOBAL HEALTH: INFORMING THE MASSES, ENGAGING YOUTH, CHALLENGING NORMS

Kevin Chan

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

2:30 p.m.

BIOTERRORISM PREPARATION: IS OVEREMPHASIS ON BIOTERRORISM A VEHICLE FOR SOCIAL INJUSTICE AND DESTRUCTION OF OUR PUBLIC HEALTH SYSTEM?

Vic Sidel

Montefiore Medical Center, Albert Einstein College of Medicine, Bronx, NY, United States

2:55 p.m.

ETHIOPIAN COMMUNITIES IDENTIFYING AND ADDRESSING THEIR HEALTH PRIORITIES

Stanley O. Foster

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

Scientific Session 29

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) — Molecular Parasitology I

Supported with funding from the Burroughs Wellcome Fund

Marquis 3

Monday, November 13 1:30 p.m. – 3:15 p.m.

CHAIR

Daniel J. Carucci

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

Kami Kim

Albert Einstein School of Medicine, Bronx, NY, United States

1:30 p.m.

1110

AN INTEGRATED GENOMIC APPROACH TO DISSECTING DRUG RESPONSE TRAITS IN PLASMODIUM FALCIPARUM

Jigar J. Patel, John C. Tan, Joseph M. Gonzales, J. Craig Blain, Bingbing Deng, Lisa C. Checkley, Michael T. Ferdig

University of Notre Dame, Notre Dame, IN, United States

1:45 p.m.

295

A DETERMINATE OF SPECIES RANGE AND VIRULENCE IN *PLASMODIUM FALCIPARUM* MALARIA

Karen Hayton, Anna Liu, Fatima Nawaz, Michelle Doll, Thomas E. Wellems

National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

2 p.m.

293

ANALYSIS OF THE *BRUGIA MALAYI* RPS12 PROMOTER IN A HOMOLOGOUS TRANSFECTION SYSTEM

Ana deOliveira, Tarig B. Higazi, **Thomas R. Unnasch**

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

(ACMCIP Abstract)

2:15 p.m.

294

DISRUPTION OF *PLASMODIUM* TRANSCRIPTION FACTOR *HMGB2* IMPAIRS OOCYST FORMATION

Mathieu Gissot[1], Li-Min Ting[1], Photini Sinnis[2], Kami Kim[1]

[1]Albert Einstein College of Medicine, Bronx, NY, United States, [2]New York University School of Medicine, New York, NY, United States

(ACMCIP Abstract)

2:30 p.m.

296

RECOMBINATION PATTERNS IN *VAR* GENE REPERTOIRES OF *P. FALCIPARUM*

Susan M. Kraemer[1], Gautam Aggarwal[1], Sue Kyes[2], Amy Springer[1], Siri Nelson[1], Leia Smith[1], Wendy Wang[1], Emily Levin[1], Chris Newbold[2], Peter Myler[1], Joe D. Smith[1]

[1]Seattle Biomedical Research Institute, Seattle, WA, United States, [2]John Radcliffe Hospital, University of Oxford, Oxford, United Kingdom

(ACMCIP Abstract)

2:45 p.m.

297

MULTIPLE INDEPENDANT ORIGINS OF ATOVAQUONE-PROGUANIL *FALCIPARUM* RESISTANCE

Lise Musset[1], Jacques Le Bras[2], Jérôme Clain[3]

[1]Hopital Bichat Claude Bernard, Paris Cedex, France, [2]Hopital Bichat Claude Bernard, Paris, France, [3]Université Paris, Paris, France

(ACMCIP Abstract)

Symposium 30

American Committee of Medical Entomology (ACME) I: Genetic Manipulation of Mosquitoes for Arbovirus Control

Marquis 4

Monday, November 13 1:30 p.m. – 3:15 p.m.

Mosquito-borne viruses are responsible for millions of human infections every year, and are emerging/re-emerging in many parts of the world. In the absence of effective vaccines, the control of most mosquito-borne diseases relies on vector control. Recent technology and molecular tools have facilitated the genetic manipulation of mosquito vectors. The proposal to develop and use incompetent mosquitoes as a novel strategy to control mosquito-borne diseases is now becoming a credible goal. This symposium will discuss strategies to genetically manipulate the competence of vector mosquitoes to transmit arboviruses, their potential to reduce the impact of mosquito-borne diseases and issues related to the implementation of this control strategy.

CHAIR

Stephen Higgs

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

1:30 p.m.

STRATEGIES TO DEVELOP ARBOVIRUS-RESISTANT MOSQUITOES

Anthony A. James

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

1:55 p.m.

ETHICAL, SOCIAL AND CULTURAL ISSUES RELATED TO VECTOR POPULATION REPLACEMENT

Jim Lavery

National Institutes of Health, Fogarty International Center, Bethesda, MD, United States

2:15 p.m.

PLANNING AND CONDUCTING SAFE FIELD TRIALS

Mark Q. Benedict

Centers for Disease Control and Prevention/National Center for Infectious Diseases, Chamblee, GA, United States

2:40 p.m.

CONDITIONS FOR RELEASE OF TRANSGENIC MOSQUITOES

Andrew Spielman

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

Scientific Session 31

Malaria — Genetic Diversity in Parasite and Host

Marquis 2

Monday, November 13 1:30 p.m. – 3:15 p.m.

CHAIR

James Colborn

Tulane University, New Orleans, LA, United States

Johanna P. Daily

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

1:30 p.m.

298

THE EVOLUTION OF GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE IN PLASMODIUM

Sheila Akinyi[1], Jenny Gaona[2], Esmeralda V. Meyer[1], John W. Barnwell[3], Mary R. Galinski[1], Vladimir Corredor[2]

[1]Emory Vaccine Center at Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, [2]Unidad de Parasitologia, Departamento de Salud Publica, Facultad de Medicina, Universidad Nacional de Colombia, Bogota, Colombia, [3]Malaria Branch, Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States

1:45 p.m.

299

GENOME-WIDE VARIATION AND IDENTIFICATION OF VACCINE TARGETS IN THE *PLASMODIUM FALCIPARUM* GENOME

Jianbing Mu[1], Philip Awadalla[2], Junhui Duan[1], Kate M McGee[2], jon Keebler[2], Karl Siydel[1], Gilean A. T. McVean[3], Xin-zhuan Su[1]

[1]National Institutes of Allergy and Infectious Disease, Rockville, MD, United States, [2]Department of Genetics, North Carolina State University, Raleigh, NC, United States, [3]Department of Statistics, University of Oxford, Oxford, United Kingdom

2 p.m.

300

IDENTIFICATION OF GENETIC POLYMORPHISMS WITHIN THE TNFα AND COMPLEMENT PATHWAYS INFLUENCING RESISTANCE TO MALARIA-ASSOCIATED SEVERE ANEMIA IN KENYA

Donald M. Prather[1], Lyna Zhang[1], Jodi Vanden Eng[1], Simon Kariuki[2], Prescott Atkinson[3], Feiko ter Kuile[4], Bernard Hahlen[1], Ya Ping Shi[1], Venkatachalam Udhayakumar[1]

[1]Centers for Disease Control and Prevention, Chamblee, GA, United States, [2]Kenya Medical Research Institute, Kisumu, Kenya, [3]University of Alabama, Birmingham, AL, United States, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom

(ACMCIP Abstract)

2:15 p.m.

301

QUANTITATIVE DETECTION OF TRANSCRIPTS OF *PLASMODIUM VIVAX* MEROZOITE SURFACE PROTEIN-3 (PVMSP-3) ELEVEN GENE FAMILY MEMBERS BY REAL-TIME PCR

Jianlin Jiang[1], John W. Barnwell[2], Esmeralda V. Meyer[1], Mary R. Galinski[1]

[1]Emory Vaccine Center at Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, [2]Malaria Branch, Division of Parasitic Diseases, Centers for Disease Control and Prevention, Chamblee, GA, United States

2:30 p.m.

302

ANTISENSE RNA AND ANTIGENIC VARIATION IN *PLASMODIUM KNOWLESI*

Stacey A. Lapp[1], Vladimir Corredor[2], Mary R. Galinski[1]

[1]Emory Vaccine Center at Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, [2]Unidad de Parasitologia, Departamento de Salud Publica, Facultad de Medicina, Universidad Nacional de Colombia, Bogota, Colombia

2:45 p.m.

303

ASSOCIATION OF PATIENT CHARACTERISTICS AND *P. FALCIPARUM* STEADY STATE MRNA ABUNDANCE

Johanna P. Daily[1], Karine G. Le Roch[2], Daouda Ndiaye[3], Yingyao Zhou[2], Omar Ndir[3], Soulyemane Mboup[3], Dan Scanfeld[4], Pablo Tamayo[4], Jill Mesirov[4], Elizabeth A. Winzeler[5]

[1]Harvard School of Public Health, Boston, MA, United States, [2]Genomics Institute of the Novartis Research Foundation, San Diego, CA, United States, [3]Cheikh Anta Diop University, Dakar, Senegal, [4]Broad Institute of MIT and Harvard University, Cambridge, MA, United States, [5]The Scripps Research Institute, La Jolla, CA, United States

3 p.m.

304

CHANGES IN HUMAN GENE EXPRESSION DURING UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA

James M. Colborn[1], Joni J. Ylostälo[1], Ousmane A. Koita[2], Ousmane H. Cissé[2], Donald J. Krogstad[1]

[1]Tulane University, New Orleans, LA, United States, [2]University of Bamako, Bamako, Mali

(ACMCIP Abstract)

Scientific Session 32

Clinical Tropical Medicine I

Marquis 1

Monday, November 13 1:30 p.m. – 3:15 p.m.

CHAIR

Alan Magill

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

Philip Thuma

Malaria Institute at Macha, Choma, Zambia

1:30 p.m.

305

ARTEMETHER-LUMEFANTRINE VERSUS DIHYDROARTEMISININ-PIPERAQUINE FOR TREATMENT OF UNCOMPLICATED MALARIA IN UGANDA: A RANDOMIZED CLINICAL TRIAL AT A SITE WITH HIGH TRANSMISSION INTENSITY

Yeka Adoke[1], Hasifa Bukirwa[1], Myers Lugemwa[2], John B. Rwakimari[2], Sarah G. Steadke[3], Heidi Hopkins[3], Moses R. Kamya[4], Ambrose O. Talisuna[2], Philip J. Rosenthal[3], Fred Wabwire-Mangen[4], Grant Dorsey[3]

[1]Uganda Malaria Surveillance Project, Kampala, Uganda, [2]Ministry of Health, Kampala, Uganda, [3]University of California, San Francisco, CA, United States, [4]Makerere University, Kampala, Uganda

1:45 p.m.

306

ARTESUNATE (AS) PLUS AMODIAQUINE (AQ) FOR TREATING FALCIPARUM MALARIA — ASSESSING ITS EFFICACY AND TOLERABILITY DURING SIX YEARS OF FIELD DEPLOYMENT IN SOUTHERN SENEGAL

Philippe Brasseur[1], Patrice Agnamey[2], Moustafa Cisse[3], Philippe Eldin De Pecoulas[4], Jean-François Faucher[5], Michel Vaillant[6], Oumar Gaye[7], Walter (Bob) R. Taylor[8], **Piero L. Olliaro[8]**

[1]IRD, Dakar, Senegal, [2]Laboratoire de parasitologie/mycologie, Université Paris V, Paris, France, [3]Centre Hospitalier, Oussouye, Senegal, [4]Faculté de Pharmacie, Université de Caen, Caen, France, [5]Service des Maladies Infectieuses, Besançon, France, [6]CRP-Santé, Luxembourg, Luxembourg, [7]Faculté de Médecine, Université Cheik Anta Diop, Dakar, Senegal, [8]UNICEF/UNDP/WB/WHO Special Programme for Research and Training in Tropical Diseases (TDR), Geneva, Switzerland

2 p.m.

307

ARTESUNATE + AMODIAQUINE (AS+AQ) FOR THE TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA: AN INVENTORY AND SYSTEMATIC REVIEW OF SAFETY AND EFFICACY DATA

Piero L. Olliaro[1], Michel Vaillant[2], Revati Phalkey[3], Jean-Paul Guthmann[4], Grant Dorsey[5], Philippe Brasseur[6], Umberto D'alessandro[7], Pascal Millet[3], Walter (Bob) R. Taylor[1]

[1]UNICEF/UNDP/WB/WHO Special Programme for Research and Training in Tropical Diseases (TDR), Geneva, Switzerland, [2]CRP-Santé, Luxembourg, Luxembourg, [3]Université Victor Segalen Bordeaux 2, Bordeaux, France, [4]Epicentre, Paris, France, [5]University of California at San Francisco, San Francisco, CA, United States, [6]IRD, Dakar, Senegal, [7]Institut Prince Leopold, Antwerp, Belgium

2:15 p.m.

308

A DOUBLE BLINDED RANDOMISED CONTROLLED TRIAL COMPARING SULFADOXINE-PYRIMETHAMINE (SP) + PLACEBO TO SP+CHLOROQUINE, SP+ARTESUNATE OR SP+AMODIAQUINE FOR THE TREATMENT OF UNCOMPLICATED MALARIA IN MALAWI

David J. Bell[1], Mavuto Mukaka[2], Suzgo Nyirongo[2], Edward Zijlstra[3], Chris V. Plowe[4], Malcolm E. Molyneux[2], Steve A. Ward[5], Peter A. Winstanley[1]

[1]University of Liverpool, Liverpool, United Kingdom, [2]Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, [3]College of Medicine, Blantyre, Malawi, [4]Centre for Vaccine Development, University of Maryland, Baltimore, MD, United States, [5]Liverpool School of Tropical Medicine, University of Liverpool, Liverpool, United Kingdom

2:30 p.m.

309

A CONTROLLED TRIAL ON EXTENDED INTERMITTENT PREVENTIVE TREATMENT WITH SULFADOXINE-PYRIMETHAMINE FOR MALARIA CONTROL IN INFANTS IN AN AREA OF INTENSE PERENNIAL TRANSMISSION

Robin Kobbe[1], Christina Kreuzberg[1], Samuel Adjei[2], Benedicta Thompson[3], Iris Langefeld[1], Peter Apia Thompson[3], Harry Hoffman Abruquah[3], Benno Kreuels[1], Matilda Ayim[3], Wibke Busch[1], Florian Marks[1], Kwado Amoah[3], Ernest Opoku[3], Christian G. Meyer[1], Ohene Adjei[3], Jürgen May[1]

[1]Bernhard-Nocht-Institute for Tropical Medicine, Hamburg, Germany, [2]Ministry of Health/Ghana Health Service, District Health Directorate, Agona, Ashanti Region, Ghana, [3]Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana

2:45 p.m.

310

CHANGES IN HOSPITAL CASES OF MALARIA AFTER THE INTRODUCTION OF ARTEMISININ COMBINATION THERAPY IN ZAMBIA

Philip Thuma, Janneke van Dijk, Sungano Mharakurwa

Malaria Institute at Macha, Choma, Zambia

3 p.m.

311

COUNTERFEIT ARTESUNATE AND MALARIA IN ASIA AND AFRICA

Paul N. Newton[1], Facundo Fernandez[2], Michael Green[3]

[1]Mahosot Hospital, Vientiane, Lao People's Democratic Republic, [2]Georgia Institute of Technology, Atlanta, GA, United States, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States

Exhibit Hall Open

International Level

Monday, November 13 3 p.m. – 4 p.m.

Coffee Break

International Level

Monday, November 13 3:15 p.m. – 3:45 p.m.

Symposium 33

The EDEN Project: European Diseases in a Changing Environment

Sydney/Zurich

Monday, November 13 3:45 p.m. – 5:30 p.m.

EDEN is a project funded by the European Commission to study the impacts of environmental, social and economic changes on distribution and dynamics of zoonoses affecting humans in Europe. The project includes 48 institutions from 24 countries. The symposium will give an overview and preliminary findings of the five sub-projects—leishmaniasis, malaria, rodent-borne, tick-borne and West Nile virus—plus the 'horizontal' component that includes data management and information systems, high and low resolution remote sensing, transmission modeling and biodiversity studies.

CHAIR

Paul Reiter

Institut Pasteur, Paris, France

Stephane de la Rocque

CIRAD (Centre de Co-opération Internationale en Recherche Agronomique pour le Développement), Montpellier, France

3:45 p.m.

EDEN SUB-PROJECT: RODENT-BORNE PATHOGENS

Heikki Henttonen

Finnish Forest Research Institute, Vantaa, Finland

4:10 p.m.

EDEN SUB-PROJECT: TICK-BORNE PATHOGENS

Sarah Randolph

University of Oxford, Oxford, United Kingdom

4:35 p.m.

EDEN SUB-PROJECTS: WEST NILE VIRUS AND MALARIA

Paul Reiter

Pasteur Institute, Paris, France

4:55 p.m.

EDEN HORIZONTAL PROJECT: REMOTE SENSING COMPONENT

David Rogers

University of Oxford, Oxford, United Kingdom

Symposium 34

Toxics in the Tropics

Bonn/London

Monday, November 13 3:45 p.m. – 5:30 p.m.

Health impacts analysis and assessment from large industrial projects in low human development index settings. The role of the large multi-lateral funding agencies (e.g., World Bank Group, IFC) will be presented. Representative examples of current projects will be presented.

CHAIR

Gary R. Krieger

NewFields, LLC and University of Colorado, Denver, CO, United States

Juerg Utzinger

Swiss Tropical Institute, Basel, Switzerland

3:45 p.m.

INTRODUCTION

Gary Krieger[1], Juerg Utzinger[2]

[1]University of Colorado, Denver, CO, United States, [2]Swiss Tropical Institute, Basel, Switzerland

3:55 p.m.

FINANCING PROJECTS IN DEVELOPING COUNTRIES: POLICIES ON HEALTH AND ENVIRONMENT

Christopher Sheldon

World Bank Group, Washington, DC, United States

4:15 p.m.

INSTITUTIONALIZING HEALTH IMPACT ASSESSMENTS: HOW AND WHY

Burt Singer

Princeton University Office of Population Research, Princeton, NJ, United States

4:35 p.m.

HEALTH IMPACT ASSESSMENT OF THE NT 2 HYDROELECTRIC PROJECT IN CENTRAL LAO PDR

Juerg Utzinger

Swiss Tropical Institute, Basel, Switzerland

4:55 p.m.

AROUND THE WORLD IN TWENTY MINUTES: POTENTIAL HEALTH IMPACTS OF LARGE INDUSTRIAL PROJECTS: AFRICA, ASIA-PACIFIC AND SOUTH AMERICA

Gary Krieger

NewFields, LLC and University of Colorado, Denver, CO, United States

4:15 p.m.

DISCUSSION

Scientific Session 35

Bacteriology II — Diarrhea II

International 4

Monday, November 13 3:45 p.m. – 5:30 p.m.

CHAIR

Andrea A. Kim

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

Stephen T. McGarvey

International Health Institute, Brown University, Providence, RI, United States

3:45 p.m.

312

SEVERE OUTBREAK OF DIARRHEAL DISEASE AND ACUTE MALNUTRITION AMONG YOUNG CHILDREN — BOTSWANA

Andrea A. Kim[1], Tracy Creek[1], Lydia Lu[1], Wences Arvelo[1], Ondrej Mach[1], Thomas Finkbeiner[1], Laurel Zaks[1], Margarett Davis[2], Loeto Mazhani[3], Japhter Masunge[4], Nancy Purh[1], Suzanne Beard[1], Stephanie Johnston[1], Alexandre da Silva[1], Henry Bishoop[1], Anna Bowen[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]BOTUSA Project, Gabarone, Botswana, [3]Botswana Ministry of Health, Gabarone, Botswana, [4]Ngwangwe Hospital, Francistown, Botswana

4 p.m.

313

CHANGES IN THE SPATIAL DYNAMICS OF SEASONAL DIARRHEA IN MEXICO IN 1979-2001

Wladimir J. Alonso[1], Louise A. Kelly-Hope[1], Cecile Viboud[1], Eduardo W. Hirano[2], Mark A. Miller[1]

[1]National Institutes of Health, Bethesda, MD, United States, [2]Mechanical Engineering Department - UFSC, Florianópolis, Brazil

4:15 p.m.

314

ETIOLOGY OF ACUTE DIARRHEA IN A POPULATION LIVING IN UZBEKISTAN

Gulnara A. Ibadova, Gulnara K. Abdukhalilova, Aybek V. Khodiev

SRIEMID, Tashkent, Uzbekistan

4:30 p.m.

315

DIARRHEAL DISEASE AND HOUSEHOLD DRINKING WATER QUALITY IN BONAO, DOMINICAN REPUBLIC

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

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

4:45 p.m.

316

INTEGRATING PUBLIC HEALTH CONTROL STRATEGIES: BALANCING WATER SANITATION, AND HYGIENE INTERVENTIONS TO REDUCE DIARRHEAL DISEASE BURDEN

Joseph N. Eisenberg[1], James C. Scott[2], Travis Porco[3]

[1]University of Michigan, Ann Arbor, MI, United States, [2]University of California, Berkeley, CA, United States, [3]California Department of Health Services, Richmond, CA, United States

5 p.m.

317

DETERMINANTS OF HOUSEHOLD WATER QUALITY IN COASTAL GHANA

Stephen T. McGarvey[1], Justin Buszin[1], David C. Smith[2], Holly Reed[1], Kofi Awusabo-Asare[3], Michael J. White[1]

[1]Brown University, Providence, RI, United States, [2]University of Rhode Island, Kingston, RI, United States, [3]University of Cape Coast, Cape Coast, Ghana

5:15 p.m.

318

CERAMIC FILTERS FOR HOUSEHOLD-SCALE DRINKING WATER TREATMENT IN RURAL CAMBODIA: INDEPENDENT APPRAISAL OF INTERVENTIONS FROM 2002-2005

Joe Brown, Mark Sobsey

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

Symposium 36

Targeting the NTDs (Neglected Tropical Diseases): Increased Awareness, Integrated Programs Promise a 'Best Buy' for Global Health

International 5/6

Monday, November 13 3:45 p.m. – 5:30 p.m.

The 'Neglected Tropical Diseases' (NTDs), a group of 13 diseases inflicting severe economic, psychosocial and physical damage on the poorest populations in the developing world, account for more than 500,000 deaths, 50 million DALYs and hundreds of millions of dollars lost in decreased productivity each year. Recognition of the enormous potential impact, and very low cost, of targeting many of these diseases in an activity-coordinated ('integrated') fashion has led to a number of important recent outcomes. WHO created a Department of NTDs to bring this strategic approach into sharper focus; the Gates foundation and others have developed specific research initiatives to define the most important determinants of successful program integration; and the U.S. government (USG) has established a five-year, $100 million initiative targeting these diseases through integrated program implementation. To bring these developments to the attention of the society, the speakers in this symposium will 1) place the NTDs in the context of other global health challenges today, 2) detail the strategic opportunities presented by the USG initiative, 3) define the uncertainties of program integration that must be resolved in order to optimize its impact and cost-effectiveness, and 4) recount the successes and challenges of a major 'program integration' initiative now underway in Togo.

CHAIR

Eric A. Ottesen

Task Force for Child Survival and Development, Decatur, GA, United States

3:45 p.m.
INTRODUCTION

Eric A. Ottesen

Task Force for Child Survival and Development, Decatur, GA, United States

3:50 p.m.
NTDS: TAKING THEIR PLACE ALONGSIDE THE 'BIG THREE'

Peter J. Hotez

The George Washington University, Washington, DC, United States

4:15 p.m.
HOPE FOR THE NTDS: A U.S. GOVERNMENT-SPONSORED INITIATIVE TO INTEGRATE PROGRAM IMPLEMENTATION

Alan Fenwick

Imperial College London, London, United Kingdom

4:40 p.m.
IMPACT AND EFFICIENCY OF INTEGRATED NTD PROGRAMS: RESEARCH TOWARDS OPTIMIZATION

Jacob Kumaresan

International Trachoma Initiative, New York, NY, United States

5:05 p.m.
PROGRAM INTEGRATION IN TOGO: SUCCESSES, BUT NOT WITHOUT CHALLENGES

Yao Sodahlon

Ministry of Health, Togo, Atlanta, GA, United States

Scientific Session 37

HIV in the Tropics

Copenhagen/Stockholm/Amsterdam

Monday, November 13 3:45 p.m. – 5:30 p.m.

CHAIR

Davidson H. Hamer

Center for International Health and Development, Boston, MA, United States

Jean Nachega

Johns Hopkins University, Baltimore, MD, United States

3:45 p.m.
319

DIAGNOSIS AND QUANTIFICATION OF PEDIATRIC HIV-1 INFECTION BY AN ULTRASENSITIVE HIV-1 P24 ASSAY ADAPTED TO DRIED BLOOD SPOT SPECIMENS

Marlyse C. Knuchel[1], **Boniphace Salustian Jullu[2]**, Cyril Shah[1], Zuzana Tomasik[1], Marcel P. Stoeckle[2], Roberto F. Speck[3], David Nadal[4], Hassan Mshinda[2], Jürg Böni[1], Marcel Tanner[5], Jörg Schüpbach[1]

[1]Swiss National Centre for Retroviruses, University of Zurich, Switzerland, Zurich, Switzerland, [2]Ifakara Health Research and Development Centre (IHRDC), Morogoro, United Republic of Tanzania, [3]Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zürich, Zurich, Switzerland, [4]Division of Infectious Diseases, University Children's Hospital of Zürich, Zurich, Switzerland, [5]Swiss Tropical Institute, Basel, Basel, Switzerland

(ACMCIP Abstract)

4 p.m.
320

THE EFFECT OF CO-TRIMOXAZOLE PROPHYLAXIS AND INSECTICIDE-TREATED BEDNETS ON THE RISK OF MALARIA AMONG HIV INFECTED UGANDAN CHILDREN

Moses R. Kamya[1], Anne F. Gasasira[1], Jane Achan[1], Tsedal Mebrahtu[2], Adeodata Kekitiinwa[3], Edwin D. Charlebois[2], Philip J. Rosenthal[2], Diane Havlir[2], Grant M. Dorsey[2]

[1]Makerere University, Kampala, Uganda, [2]Department of Medicine, San Francisco General Hospital, University of California, San Francisco, San Francisco, CA, United States, [3]Paediatric Infectious Diseases Clinic, Mulago Hospital, Kampala, Uganda

4:15 p.m.
321

ASSESSMENT OF PAEDIATRIC ANTIRETROVIRAL TREATMENT PROGRAM CHARACTERISTICS IN SUB-SAHARAN AFRICA: THE KIDS-ART-LINC COLLABORATION

Daniel J. Kyabayinze[1], Nathan Tumwesigye[1], Dorothy Mbori-Ngacha[2], Benoit Marquis[1], Elise Arrive[3], Francois Dabis[3], Mary Pat Kieffer[4]

[1]Regional Centre for Quality of Health Care, Institute of Public Health, Makerere University, Kampala, Uganda, [2]Centers for Disease Control and Prevention-Kenya/ANECCA, Nairobi, Kenya, [3]Institut de Santé Publique, Epidémiologie et Développement (ISPED), Bordeaux, France, [4]USAID/REDSO, Nairobi, Kenya

4:30 p.m.
322

CD4 T COUNT AND HIV-1 INFECTION IN PATIENTS WITH UNCOMPLICATED MALARIA

Jean-Pierre Van Geertruyden

Prince Leopold Instituut Voor Tropische Geneeskunde, Antwerpen, Belgium

4:45 p.m.
323

MATERNAL HIV LOAD AND LOW CCR5 EXPRESSION HAPLOTYPES ARE ASSOCIATED WITH REDUCED MOTHER-TO-CHILD HIV TRANSMISSION IN MALAWI

Bonnie R. Pedersen[1], Deborah Kamwendo[1], Melinda Blood[2], Peter Zimmerman[2], Stephen J. Rogerson[3], Steven Meshnick[1]

[1]University of North Carolina, Chapel Hill, NC, United States, [2]Case Western Reserve University Medical School, Cleveland, OH, United States, [3]University of Melbourne, Melbourne, Australia

5 p.m.
324

IMPACT OF INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA ON MOTHER-TO-CHILD TRANSMISSION OF HIV IN MOZAMBIQUE

Maria Lahuerta[1], Clara Menéndez[1], Azucena Bardají[1], Cleofe Romagosa[1], Inacio Mandomando[2], Sergi Sanz[1], John Aponte[1], Anna Berenguera[1], Pedro Alonso[1], Denise Naniche[1]

[1]Center for International Health, Hospital Clinic, University of Barcelona, Barcelona, Spain, [2]Manhiça Health Research Center, Manhiça, Mozambique

5:15 p.m.

325

THE EFFECT OF HELMINTH INFECTIONS AND THEIR TREATMENT DURING PREGNANCY ON VERTICAL TRANSMISSION OF HIV INFECTION IN UGANDA: RESULTS OF A RANDOMISED, DOUBLE-BLIND, PLACEBO CONTROLLED TRIAL

Jacqueline Kyosiimire-Lugemwa[1], Patrice A. Mawa[1], Dennison Kizito[1], James Oweka-Onyee[1], Lawrence Muhangi[1], Denise Akishule[1], Mildred Omara[1], Christine Ameke[1], Pontiano Kaleebu[1], Heiner Grosskurth[1], Alison M. Elliott[2]

[1]Medical Research Council/Uganda Virus Research Institute, Research Unit on AIDS, Entebbe, Uganda, [2]London School of Hygiene & Tropical Medicine, London, United Kingdom

Scientific Session 38

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) — Molecular Parasitology II

Supported with funding from the Burroughs Wellcome Fund

Marquis 3

Monday, November 13 3:45 p.m. – 5:30 p.m.

CHAIR

David Fidock

Albert Einstein College of Medicine, Bronx, NY, United States

Sarah K. Volkman

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

3:45 p.m.

1111

GENOMIC SCALE ANALYSIS OF LATERAL GENE TRANSFER IN THE APICOMPLEXAN PARASITE TOXOPLASMA GONDII

Lucia Peixoto, David S. Roos

University of Pennsylvania, Philadelphia, PA, United States

4 p.m.

1112

PROMOTER-PAIRING OF MALARIA VIRULENCE GENES IS REQUIRED FOR MUTUALLY EXCLUSIVE EXPRESSION

Ron Dzikowski, Felomena Li, Borko Amulic, Andrew Eisberg, Matthias Frank, Suchit Patel, Thomas Wellems, Kirk Deitsch

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

4:15 p.m.

326

GENOME-WIDE DIVERSITY MAP OF *PLASMODIUM FALCIPARUM*

Sarah K. Volkman[1], Pardis C. Sabeti[2], David DeCaprio[2], Dan Neafsey[2], Steve Schaffner[2], Alan Derr[2], Dan Milner[1], Nicole Stange-Thomann[2], Oleg Shamovsky[2], Robert Onofrio[2], Daniel J. Richter[2], Skye Waggoner[2], Evan Mauceli[2], Sante Gnerre[2], Joanne Zainoun[2], Johanna P. Daily[1], Ousmane Sarr[3], Soulyemane Mboup[3], Roger Wiegand[2], Daniel L. Hartl[4], David Jaffe[2], Bruce Birren[2], James E. Galagan[2], Eric Lander[2], Dyann F. Wirth[1]

[1]Harvard School of Public Health, Boston, MA, United States, [2]Broad Institute of MIT and Harvard, Cambridge, MA, United States, [3]Cheikh Anta Diop University, Dakar, Senegal, [4]Harvard University, Cambridge, MA, United States

4:30 p.m.

327

BXB1 MYCOBACTERIOPHAGE INTEGRASE-MEDIATED SITE-SPECIFIC INTEGRATION INTO *PLASMODIUM FALCIPARUM* AND ITS APPLICATION TO THE STUDY OF THE VAR GENE FAMILY

Rebecca A. Muhle[1], Louis J. Nkrumah[1], Pedro A. Moura[1], Sue M. Kraemer[2], Sophie H. Adjalley[1], Graham F. Hatfull[3], Joseph D. Smith[2], William R. Jacobs[1], David A. Fidock[1]

[1]Albert Einstein College of Medicine, Bronx, NY, United States, [2]Seattle Biomedical Research Institute, Seattle, WA, United States, [3]University of Pittsburgh, Pittsburgh, PA, United States

4:45 p.m.

328

MICROSATELLITE DIVERSITY OF *PLASMODIUM VIVAX* ISOLATES FROM SRI LANKA

Nadira D. Karunaweera[1], Marcelo U. Ferreira[2], Daniel L. Hartl[2], Dyann F. Wirth[1]

[1]Harvard University, Boston, MA, United States, [2]Harvard University, Cambridge, MA, United States

5 p.m.

329

TRANSFERRIN POLYMORPHISM INFLUENCES THE RISK OF SEVERE MALARIAL ANAEMIA IN GABONESE CHILDREN

Jean Bernard Lekana-Douki[1], Daniel Parzy[2], Pascal Christian Nze Obiang[1], Delphine Prieur[2], Pacôme Mouidi[1], Francis Fumoux[3], Maryvonne Kombila[1]

[1]University of Health Sciences, Libreville, Gabon, [2]UR3P, IMTSSA, University of Marseille, Marseille, France, [3]UPMP, Faculté de Pharmacie de Marseille, University of Marseille, Marseille, France

5:15 p.m.

330

MOLECULAR CLONING OF A NOVEL *TRYPANOSOMA CRUZI* CELL SURFACE CASEIN KINASE II SUBSTRATE, TC-1, THAT MEDIATES EARLY CELLULAR INFECTION

Swinburne A. Augustine, Nia Madison, Yuliya Kleschenko, Pius Nde, Kaneatra Simmons, Maria F. Lima, Fernando Villalta

Meharry Medical College, Nashville, TN, United States

Symposium 39

American Committee of Medical Entomology (ACME) II: Genetically Engineered Viruses and Vaccines in Vector Mosquitoes

Marquis 4

Monday, November 13 3:45 p.m. – 5:30 p.m.

Mosquito-borne viruses are responsible for millions of human infections every year, and are emerging/re-emerging in many parts of the world. There is a lack of fundamental information on vector-virus-vertebrate interactions, and the control of most mosquito-borne diseases relies on vector control. The development of infectious clone technology has enabled the genetic manipulation of several mosquito-borne viruses and the development of new live attenuated vaccine candidates. This symposium will discuss how these viruses are improving our understanding of viral interactions with mosquitoes, and vaccine virus attenuation in vectors.

CHAIR

Stephen Higgs

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

3:45 p.m.

YELLOW FEVER 17D VIRUS AS A LIVE VECTOR FOR VACCINE DEVELOPMENT

Farshad Guirakhoo

Acambis, Cambridge, MA, United States

4:10 p.m.

STRATEGIES FOR DEVELOPMENT OF FLAVIVIRUS VACCINES: CAN YOU ACHIEVE ATTENUATION IN BOTH MAMMALIAN AND VECTOR HOSTS?

Stephen Whitehead

National Institutes of Health, Bethesda, MD, United States

4:35 p.m.

MOSQUITO INFECTIONS WITH CHIMERIC ALPHAVIRUSES AND FLAVIVIRUSES

Stephen Higgs

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

5 p.m.

GENETIC DETERMINANTS OF MOSQUITO INFECTION BY ALPHAVIRUSES

Scott C. Weaver

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

Scientific Session 40

Malaria — Drug Development

Marquis 2

Monday, November 13 3:45 p.m. – 5:30 p.m.

CHAIR

Jane X. Kelly

Portland VA Medical Center, Portland, OR, United States

Ousmane A. Koita

University of Bamako, Bamako, Mali

3:45 p.m.

331

NORMAL RANGES FOR CHEMISTRY AND HEMATOLOGY PANELS IN MALI

Ousmane A. Koita[1], A. Touré[1], M. Cissé[1], Fawaz Mzayek[2], **Donald J. Krogstad[2]**

[1]University of Bamako, Bamako, Mali, [2]Tulane University, New Orleans, LA, United States

4 p.m.

332

IDENTIFICATION AND CHARACTERIZATION OF A NOVEL *PLASMODIUM* PROTEIN RESPONSIBLE FOR HEMOZOIN FORMATION-IMPLICATIONS FOR ANTIMALARIAL DRUG DEVELOPMENT

Dharmendar Rathore[1], Dewal Jani[1], Rana Nagarkatti[1], Wandy Beatty[2], Sanjai Kumar[3], Geno Iannaccone[4]

[1]Virginia Bioinformatics Institute, Blacksburg, VA, United States, [2]Washington University School of Medicine, St. Louis, MO, United States, [3]Food and Drug Administration, Bethesda, MD, United States, [4]Virginia Tech, Blacksburg, VA, United States

4:15 p.m.

333

STRUCTURE-BASED DRUG DESIGN TARGETING *PLASMODIUM FALCIPARUM* HSP90

Dylan R. Pillai[1], Kevin C. Corbett[2], Marc O. Anderson[3], Joseph L. DeRisi[1]

[1]University of California San Francisco, San Francisco, CA, United States, [2]University of California Berkeley, Berkeley, CA, United States, [3]San Francisco State University, San Francisco, CA, United States

(ACMCIP Abstract)

4:30 p.m.

334

PHARMACOKINETIC STUDY OF INTRAMUSCULAR AND INTRARECTAL ARTEMETHER APPLICATION FOR THE ACUTE ATTACK TREATMENT OF MALARIA

Louis Penali[1], FH Jansen[2]

[1]Institute Pasteur, Abidjan, Cote d'Ivoire, [2]Dafra Pharma, Turnhout, Belgium

4:45 p.m.

335

EVALUATION OF ALKYLAMINOQUINOLINYL-METHANOLS AS NEW ANTIMALARIALS

Charlotte A. Lanteri[1], Tiffany N. Heady[1], Apurba K. Bhattacharjee[1], Miriam Cabezas[1], Diana Caridha[1], Lucia Gerena[1], Montip Gettayacamin[2], Nicanor Obaldia[3], Norma Roncal[1], Todd Shearer[1], Philip L. Smith[1], Anchalee Tungtaeng[2], Debra L. Yourick[1], Kirsten S. Smith[1], Geoffrey S. Dow[1]

[1]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [3]Tropical Medicine Research/Gorgas Memorial Research Institute, Panama City, Panama

5 p.m.

336

EVALUATION AND LEAD OPTIMIZATION OF ANTIMALARIAL AROMATIC KETONES

Michael Riscoe, Rolf Winter, Jane Kelly, Martin Smilkstein, Rosie Dodean, Dave Hinrichs

Portland VA Medical Center, Portland, OR, United States

5:15 p.m.

337

NOVEL ANTIMALARIAL ACRIDONE DERIVATIVES WITH BOTH INTRINSIC POTENCY AND SYNERGY WITH SELECTED QUINOLINES: *IN VITRO* AND *IN VIVO* STUDIES

Marty Smilkstein, Jane Kelly, Rosie Dodean, David Hinrichs, Rolf Winter, Mike Riscoe

Portland VA Medical Center, Portland, OR, United States

Scientific Session 41

Clinical Tropical Medicine II

Marquis 1

Monday, November 13 3:45 p.m. – 5:30 p.m.

CHAIR

Parsotam R. Hira

Kuwait University, Kuwai City, Kuwait

Kathryn Maitland

KEMRI-Wellcome Trust Collaborative Programme, Kilifi, Kenya

3:45 p.m.

338

UPDATE ON MAKING CGMP INTRAVENOUS ARTESUNATE AVAILABLE IN THE UNITED STATES

Peter J. Weina[1], R. Scott Miller[1], Louis Cantilena[2], Shon Remich[3], Adam Haeberle[1], Michael C. Lowe[1], Wilbur K. Milhous[1]

[1]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [2]Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [3]U.S. Army Medical Research Unit - Kenya, Kisumu, Kenya

4 p.m.

339

L-ARGININE INFUSION INCREASES NO PRODUCTION AND REVERSES ENDOTHELIAL DYSFUNCTION IN ADULTS WITH MODERATELY SEVERE *FALCIPARUM* MALARIA IN PAPUA, INDONESIA

TW Yeo[1], DA Lampah[2], E. Kenangalem[3], R. Gitawati[4], E. Tjitra[4], Y. McNeil[1], D. Granger[5], B. Lopansri[5], D. Celermajer[6], RN Price[7], S. Duffull[8], NM Anstey[1]

[1]Menzies School of Health Research, Darwin, Australia, [2]National Institutes of HealthRD-MSHR Research Programme, Timika, Indonesia, [3]Dinas Kesehatan Kabupaten, Mimika, Indonesia, [4]National Institute of Health Research and Development, Jakarta, Indonesia, [5]University of Utah, Salt Lake City, UT, United States, [6]University of Sydney, Syndey, Australia, [7]Oxford University, Oxford, United Kingdom, [8]University of Queensland, Brisbane, Australia

4:15 p.m.

340

CLINICAL UTILITY OF MALARIA-SPECIFIC RETINAL FINDINGS IN PEDIATRIC CEREBRAL MALARIA

Rachel N. Bronzan[1], Susan Lewallen[2], Nicholas Beare[3], Malcolm E. Molyneux[4], Maganizo Chagomerana[5], Terrie E. Taylor[1]

[1]Michigan State University, East Lansing, MI, United States, [2]Kilimanjaro Christian Medical Center, Moshi, United Republic of Tanzania, [3]Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, [4]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [5]Blantyre Malaria Project, Blantyre, Malawi

4:30 p.m.

341

COMPARISON OF RECTAL DIAZEPAM TO BUCCAL MIDAZOLAM IN TREATMENT OF PROLONGED CONVULSIONS IN UGANDAN CHILDREN

Arthur Mpimbaza[1], Grace Ndeezi[1], Sarah Staedke[2], Philip J. Rosenthal[2], Justus Byarugaba[1]

[1]Makerere University, Department of Pediatrics and Child Health, Kampala, Uganda, [2]University of California, San Francisco, CA, United States

4:45 p.m.

342

VERY LOW MORTALITY ASSOCIATED WITH ALBUMIN INFUSION IN KENYAN CHILDREN WITH SEVERE MALARIA

Kathryn Maitland[1], Samuel Akech[1], Samson Gwer[1], Richard Idro[1], Greg Fegan[1], Charles R. Newton[1], Mike Levin[2]

[1]KEMRI-Wellcome Trust Collaborative Programme, Kilifi, Kenya, [2]Department of Paediatrics and Wellcome Trust Centre for Clinical Tropical Medicine, Imperial College, London, United Kingdom

5 p.m.

343

PRESUMPTIVE ANTIMALARIAL TREATMENT OF FEBRILE EPISODES AMONG CHILDREN LIVING IN URBAN UGANDA. IS IT NECESSARY?

Denise Njama-Meya[1], Moses R. Kamya[1], Tamara D. Clark[2], Bridget Nzarubara[1], Catherine Maiteki-Sebuguzi[1], Philip J. Rosenthal[2], Sarah Staedke[2], Grant Dorsey[2]

[1]Makerere University, Kampala, Uganda, [2]University of California San Francisco, San Francisco, CA, United States

5:15 p.m.

344

IMPACT OF BACTEREMIA ON HEMATOLOGICAL AND PARASITEMIC OUTCOMES IN KENYAN CHILDREN WITH *PLASMODIUM FALCIPARUM* MALARIA

Gregory C. Davenport[1], Tom Were[2], David Ounah[2], Gordon A. Awandare[1], Amos K'Ogal[2], John-Michael Ong'echa[2], Douglas J. Perkins[1]

[1]University of Pittsburgh, Pittsburgh, PA, United States, [2]University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya

Plenary Session II

Marquis Ballroom

Monday, November 13 6:00 p.m. – 7:30 p.m.

CHAIR

Myron M. Levine

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

6 p.m.

MENACES, MYSTERIES AND MARVELS: COMBATING 21ST CENTURY MICROBES

Julie L. Gerberding

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

6:45 p.m.

NEW DIRECTIONS FOR THE FOGARTY INTERNATIONAL CENTER

Roger Glass

Director, Fogarty International Center, Bethesda, MD, United States

Poster Session A Dismantle

International and Skyline Levels

Monday, November 13 7:00 p.m. – 8:00 p.m.

Late Breakers in Clinical Tropical Medicine

Copenhagen/Stockholm/Amsterdam

Monday, November 13 7:00 p.m. – 9:00 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 the Late Breaker handout in your registration packet for the presentation schedule.

Late Breakers in Basic Science/ Molecular Biology

Marquis 1

Monday, November 13 7:00 p.m. – 9:00 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 handout in your registration packet for the presentation schedule.

Tuesday, November 14

Registration

Marquis Foyer

Tuesday, November 14 7:00 a.m. – 5:00 p.m.

Cyber Café

Garden Level South

Tuesday, November 14 7:00 a.m. – 5:00 p.m.

Speaker Ready Room

International B/C

Tuesday, November 14 7:00 a.m. – 6:00 p.m.

Corporate Liaison Committee Meeting

Room 3829

Tuesday, November 14 7:00 a.m. – 8:00 a.m.

Clinical Group Past Presidents Meeting

Room 3914

Tuesday, November 14 7:00 a.m. – 8:00 a.m.

ASTMH Journal Editorial Board

Room 3908

Tuesday, November 14 7:00 a.m. – 8:00 a.m.

Symposium 42

Sailing Uncharted Waters: Problems with Difficult Cases of Cystic Echinococcosis

Sydney/Zurich

Tuesday, November 14 8:00 a.m. – 9:45 a.m.

The clinical spectrum of CE ranges from clinically silent to dramatically serious and life threatening. The most frequent locations are the liver and the lungs, but other locations are possible, for which decision-making may be very difficult. Clinicians from endemic and non-endemic areas will present examples from their clinical files in which management decisions are difficult to make, due to the relative rarity of such locations and to the lack of consensus as to what is the best treatment; this symposium aims to point out that research on this disease and coordination between centers are long overdue.

CHAIR

Enrico Brunetti

University of Pavia, Pavia, Italy

Thomas Junghanss

University Hospital Heidelberg, Heidelberg, Germany

8 a.m.

INTRODUCTION

Enrico Brunetti

University of Pavia, Pavia, Italy

8:10 a.m.

THE HEIDELBERG EXPERIENCE

Thomas Junghanss

University Hospital Heidelberg, Heidelberg, Germany

8:30 a.m.

THE MADRID EXPERIENCE

Rogelio Lopez-Velez

Hospital Ramón y Cajal, Madrid, Spain

8:55 a.m.

THE TORONTO EXPERIENCE

Jay Keystone

Toronto Hospital, Toronto, ON, Canada

9:15 a.m.

THE BAGHDAD EXPERIENCE

Dhafir Dawood Sulieman

Al-Mustansriyah University, Baghdad, Iraq

Symposium 43

Rapid Diagnostic Tests (RDTs) for Malaria: Where Do We Go from Here?

Bonn/London

Tuesday, November 14 8:00 a.m. – 9:45 a.m.

Lateral-flow immunochromatographic Rapid Diagnostic Tests for malaria because of commercial availability, changes in drug policies and an increasing need for biologic diagnosis are being used in ever increasing numbers. A variety of factors will affect the performance RDTs resulting in decreased sensitivity and specificity and consequently reduced reliability for diagnosis of malaria. A system of Quality Control/Quality Assurance (QC/QA) is needed to monitor RDT performance and stability and to guide manufacturers to produce the best products. These issues and a proposed QC/QA system will be addressed in this symposium.

CHAIR

Peter L. Chiodini

Hospital for Tropical Diseases, London, United Kingdom

John W. Barnwell

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

8 a.m.

PERFORMANCE OF RDTS FOR THE DETECTION OF HRP2 AND PLDH

Peter L. Chiodini

Hospital for Tropical Diseases, London, United Kingdom

8:25 a.m.

PERFORMANCE OF RDTS FOR THE DETECTION OF ALDOLASE

John W. Barnwell

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

8:50 a.m.

ANTIGENIC VARIATION AND ITS EFFECT ON RDT PERFORMANCE

Qin Cheng

Australian Army Malaria Institute, Brisbane, Australia

9:15 a.m.

WHO PLANS FOR PRODUCT ASSESSMENT AND QUALITY ASSURANCE OF RDTS

D. Bell

WHO Regional Office for the Western Pacific, Manila, Philippines

Scientific Session 44

Filariasis I — Clinical/Epidemiology

International 5/6

Tuesday, November 14 8:00 a.m. – 9:45 a.m.

CHAIR

Els Mathieu

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

Catherine Plichart

Institut Louis Malarde, Papeete, Tahiti, French Polynesia

8 a.m.

345

PREVALANCE OF LYMPHATIC FILARIASIS IN AMERICAN SAMOA AFTER THREE YEARS OF IMPROVED SOCIAL MOBILIZATION AND MASS DRUG ADMINISTRATION

Jennifer L. Liang[1], Jonathan King[1], Molisamoa Pa'au[2], Kazuyo Ichimori[3], Patrick Lammie[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]American Samoa Department of Health, Pago Pago, American Samoa, [3]Pacific Program to Eliminate Lymphatic Filariasis, Tamavua, Fiji

8:15 a.m.

346

LONG TERM EFFECT OF MASS DRUG ADMINISTRATION ON THE PRESENCE OF ANTIBODIES AGAINST BM14 AS A MEASURE OF LYMPHATIC FILARIASIS EXPOSURE AND INFECTION IN PAPUA NEW GUINEA

Daniel J. Tisch[1], Fred E. Hazlett[1], Moses J. Bockarie[2], Will Kastens[2], James W. Kazura[1]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea

8:30 a.m.

347

IS THERE CONTINUING TRANSMISSION OF *ONCHOCERCA VOLVULUS* IN THE ESCUINTLA-GUATEMALA FOCUS OF GUATEMALA?

Kim A. Lindblade[1], Rodrigo J. Gonzalez[2], Jane Richards[2], Byron Arana[2], Nancy Cruz-Ortiz[2], Nidia Rizzo[2], Guillermo Zea-Flores[3], Eduard Catú[4], Robert E. Klein[5], Frank O. Richards[6]

[1]Centers for Disease Control and Prevention Regional Office for Central America and Panama, Guatemala City, Guatemala, [2]Centro de Estudios en Salud, Universidad del Valle de Guatemala, Guatemala City, Guatemala, [3]Onchocerciasis Elimination Program of the Americas, Guatemala City, Guatemala, [4]Ministry of Public Health and Social Welfare, Guatemala City, Guatemala, [5]Centers for Disease Control and Prevention Regional Office for Central America and Panama, Guatemala City, Guatemala, [6]Carter Center, Atlanta, GA, United States

8:45 a.m.

348

PERSISTENCE OF *BRUGIA MALAYI* DNA IN VECTOR AND NON-VECTOR MOSQUITOES: IMPLICATIONS FOR XENOMONITORING AND TRANSMISSION MONITORING OF LYMPHATIC FILARIASIS

Peter Fischer[1], **Sara M. Erickson[2]**, Kerstin Fischer[1], Jeremy F. Fuchs[2], Ramakrishna U. Rao[1], Bruce M. Christensen[2], Gary J. Weil[1]

[1]Washington University School of Medicine, St. Louis, MO, United States, [2]University of Wisconsin-Madison, Madison, WI, United States

9 a.m.

349

INVESTIGATION OF SYSTEMATIC NONCOMPLIANCE IN THE CONTEXT OF A MASS DRUG ADMINISTRATION PROGRAM FOR LYMPHATIC FILARIASIS

Jeffrey Talbot[1], Abigail Viall[2], Abdel Direny[3], Madsen Beau de Rochars[3], David Addiss[2], Thomas Streit[4], Els Mathieu[2], Patrick Lammie[2]

[1]Emory University, Atlanta, GA, United States, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Ste. Croix Hospital, Leogane, Haiti, [4]University of Notre Dame, Notre Dame, IN, United States

9:15 a.m.

350

DIAGNOSIS OF LYMPHATIC FILARIASIS INFECTION: HOW MANY PEOPLE HAVE ADULT WORMS?

Wilma A. Stolk, Roya Sharafi, Hinta Meijerink, J. Dik F. Habbema

Erasmus MC, Rotterdam, The Netherlands

9:30 a.m.

351

SAFETY AND EFFICACY OF DOXYCYCLINE THERAPY WITH AND WITHOUT SINGLE DOSE ALBENDAZOLE/IVERMECTIN FOR THE TREATMENT OF MANSONELLA PERSTANS INFECTION

Yaya I. Coulibaly[1], Benoit Dembele[1], Abdallah A. Diallo[1], Ettie M. Lipner[2], Michael Fay[2], Dapa A. Diallo[1], Mady Sissoko[1], Daniel Yalcoue[1], Ogobara K. Doumbo[1], Abdel K. Traore[3], Thomas B. Nutman[2], Sekou F. Traore[1], Amy D. Klion[2]

[1]University of Mali, Bamako, Mali, [2]National Institutes of Health, Bethesda, MD, United States, [3]National Center for Disease Control, Bamako, Mali

Symposium 45

Global Burden of Pneumonia

Copenhagen/Stockholm/Amsterdam

Tuesday, November 14 8:00 a.m. – 9:45 a.m.

Pneumonia is the leading infectious cause of death in children and adults. Pneumococcal conjugate vaccine has the potential to reduce this burden in both children and adults. Surveillance of the disease burden is frustrated by the lack of specificity of the diagnosis, particularly in malaria endemic countries, and etiological studies lack sensitivity, particularly in children where sputum is rarely available. This symposium will explore innovative approaches using conjugate vaccine to probe pneumonia burden, as well as describe the attempts by Centers for Disease Control and Prevention, PAHO and the GAVI peumoADIP to define pneumonia burden in different parts of the world.

CHAIR

Keith Klugman

Emory University, Atlanta, GA, United States

Cynthia Whitney

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

8 a.m.

USE OF CONJUGATE VACCINE TO DEFINE THE BURDEN OF PREVENTABLE PNEUMOCOCCAL RESPIRATORY INFECTIONS

Keith Klugman

Emory University, Atlanta, GA, United States

8:25 a.m.

PNEUMONIA BURDEN ESTIMATES FROM RURAL THAILAND

Sonya Olsen

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

8:50 a.m.

EFFORTS OF THE GAVI PNEUMOADIP TO DEFINE PNEUMONIA BURDEN IN DEVELOPING COUNTRIES

Orin Levine

Johns Hopkins University, Baltimore, MD, United States

9:15 a.m.

STRATEGY FOR PNEUMOCOCCAL CONJUGATE VACCINE INTRODUCTION IN THE AMERICAS

Lucia Helena de Oliviera

Pan American Health Organization, Washington, DC, United States

Scientific Session 46

Malaria — Immunology

Marquis 3

Tuesday, November 14 8:00 a.m. – 9:45 a.m.

CHAIR

Julie M. Moore

University of Georgia, Athens, GA, United States

Douglas Perkins

University of Pittsburgh, Pittsburgh, PA, United States

8 a.m.

352

FUNCTIONAL POLYMORPHISM IN THE IL-1 BETA -31 GENE PROMOTER (C-T) IS ASSOCIATED WITH PROTECTION AGAINST SEVERE MALARIAL ANEMIA IN INFANTS AND YOUNG CHILDREN

Collins Ouma[1], Christopher C. Keller[2], Dorothy A. Opondo[3], Gregory C. Davenport[2], Tom Were[4], Richard O. Otieno[5], Gordon A. Awandare[2], Michael F. Otieno[6], Alloys S. Orago[6], John M. Vulule[7], John Michael Ong'echa[5], Robert R. Ferrell[8], Douglas J. Perkins[2]

[1]University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases and Kenyatta University, Kisumu, Kenya, [2]University of Pittsburgh Graduate School of Public Health, Department of Infectious Diseases and Microbiology, Pittsburgh, PA, United States, [3]University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Nairobi, Kenya, [4]University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases and Kenyatta University, Kisumu, Kenya, [5]University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, [6]Kenyatta University, Nairobi, Kenya, [7]Kenya Medical Research Institute, Kisumu, Kenya, [8]University of Pittsburgh Graduate School of Public Health, Department of Human Genetics, Pittsburgh, PA, United States

(ACMCIP Abstract)

8:15 a.m.

353

INITIATION OF ANTI-SPOROZOITE IMMUNITY IN MALARIA IS EXTRA-HEPATIC, WHILE THE EFFECTOR PHASE OPERATES WITHIN THE LIVER

Sumana Chakravarty, Alexandre Morrot, Salih Kuk, Ian Cockburn, Fidel Zavala

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

8:30 a.m.

354

HUMAN SYNCYTIOTROPHOBLAST CELLS PLAY AN ACTIVE ROLE IN THE IMMUNE RESPONSE TO PLACENTAL MALARIA

Naomi W. Lucchi, David S. Peterson, Julie M. Moore

University of Georgia, Athens, GA, United States

(ACMCIP Abstract)

8:45 a.m.

355

PLACENTAL MALARIA DECREASED PLASMOCYTOID DENDRITIC CELLS IN BLOOD FROM PREGNANT WOMEN IN WEST AFRICAN AREA

Delphine Aldebert[1], Mouhamadou Diallo[1], Jean Charles Moreau[2], Mamadou Ndiaye[3], **Ronan Jambou[1]**

[1]Institut Pasteur de Dakar, Dakar, Senegal, [2]Hopital Ledantec, Dakar, Senegal, [3]Institut d'hygiène sociale de Dakar, Dakar, Senegal

(ACMCIP Abstract)

9 a.m.

356

MALARIA-EXPOSED MEN AND PREGNANT WOMEN DEVELOP DIVERGENT ANTIBODY RESPONSES TO VAR1CSA AND VAR2CSA PROTEIN DOMAINS

Andrew V. Oleinikov, Eddie Rossnagle, Theonest K. Mutabingwa, Michal Fried, Patrick E. Duffy

Seattle Biomedical Research Institute, Seattle, WA, United States

(ACMCIP Abstract)

9:15 a.m.

357

LIMITED GLOBAL DIVERSITY OF ANTIBODY EPITOPES EXPRESSED BY PLACENTAL BINDING *PLASMODIUM FALCIPARUM* VARIANTS

James G. Beeson[1], Greg Kelly[2], Sandra Hallamore[2], Kristina Persson[1], Joanne Chesson[1], Alfred Cortes[3], Stephen Rogerson[2], John Reeder[3], Graham Brown[2], Kevin Marsh[4]

[1]Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, [2]Department of Medicine, University of Melbourne, Royal Melbourne Hospital, Australia, [3]Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, [4]Centre for Geographic Medicine Research, Kenya Medical Research Institute, Kilifi, Australia

(ACMCIP Abstract)

9:30 a.m.

358

CHARACTERISATION OF THE ANTIBODY RESPONSE AGAINST *PLASMODIUM FALCIPARUM* ERYTHROCYTE MEMBRANE PROTEIN-1 IN HUMAN VOLUNTEERS

Darren Krause[1], Michelle Gatton[1], Damon Eisen[2], Michael Good[1], **Qin Cheng[3]**

[1]Queensland Institute of Medical Research, Brisbane, Australia, [2]Royal Melbourne Hospital, Brisbane, Australia, [3]Australian Army Malaria Institute, Brisbane, Australia

Symposium 47

Capacity Building in the Fight Against Malaria

Supported with funding from GlaxoSmithKline

Marquis 4

Tuesday, November 14 8:00 a.m. – 9:45 a.m.

International malaria control efforts will only have lasting benefit if they are part of a major capacity-building initiative, especially in sub-Saharan Africa. Malaria-endemic countries need improved health infrastructure and well-trained and paid staff in order to develop and implement sustainable control strategies on the ground. National and regional institutions must be supported in their efforts to build capacity to undertake clinical trials and, eventually, their own research and development activities.

SYMPOSIUM ORGANIZER

Peter G. Borrett

Hera.Com, Richmond, United Kingdom

CHAIR

Laurie Garrett

Council on Foreign Relations, New York, NY, United States

8 a.m.

CLINICAL TRIALS IN AFRICA: NETWORKING FOR SUCCESS

Fred Binka

INDEPTH Network, Accra, Ghana

8:25 a.m.

COMBATING MALARIA TOGETHER: SOUTH/SOUTH PARTNERSHIPS

Thomas Nyirenda

Europe Developing Countries Clinical Trials Partnership, Cape Town, South Africa

8:50 a.m.

BACK TO BASICS: STRENGTHENING AFRICA'S PUBLIC HEALTH SERVICES

Daraus Bukenya

African Medical and Research Foundation, Nairobi, Kenya

9:15 a.m.

SECURING THE FUTURE: SUSTAINABLE MALARIA RESEARCH IN AFRICA

Wen Kilama

Multilateral Initiative on Malaria (MIM), Dar Es Salaam, United Republic of Tanzania

Scientific Session 48

Ectoparasite-Borne Diseases

International 4

Tuesday, November 14 8:00 a.m. – 9:45 a.m.

CHAIR

Charles Apperson

North Carolina State University, Raleigh, NC, United States

Michael L. Levin

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

8 a.m.

359

MITOCHONDRIAL DIVERSITY, GENE FLOW, AND PHYLOGEOGRAPHY IN THE TSETSE FLY *GLOSSINA PALLIDIPES*

J. Gerardo Marquez, Elliot S. Krafsur

Iowa State University, Ames, IA, United States

8:15 a.m.

360

LOSS OF GENETIC DIVERSITY FOR *FRANCISELLA TULARENSIS* INFECTING DOG TICKS WITH INCREASING EPIZOOTIC DURATION

Heidi K. Goethert, Sam R. Telford

Tufts University School of Veterinary Medicine, N. Grafton, MA, United States

8:30 a.m.

361

A NEW PROTOCOL FOR THE DETECTION AND IDENTIFICATION OF *RICKETTSIAE* IN TICKS REMOVED FROM MILITARY PERSONNEL

Ju Jiang[1], Johanna G. Flyer[1], Michael J. Fryauff[1], Lauren M. Klee[1], Shirley C. Chen[1], Melissa K. Miller[2], Ellen Y. Stromdahl[3], Patrick J. Rozmajzl[1], **Allen L. Richards[1]**

[1]Naval Medical Research Center, Silver Spring, MD, United States, [2]U.S. Center for Health Promotion and Preventive Medicine-North, Fort Meade, MD, United States, [3]U.S. Center for Health Promotion and Preventive Medicine, Aberdeen Proving Ground, MD, United States

8:45 a.m.

362

DURATION OF TICK ATTACHMENT NECESSARY FOR TRANSMISSION OF *ANAPLASMA PHAGOCYTOPHILUM* TO A SUSCEPTIBLE VERTEBRATE HOST

Michael l. Levin, Danielle R. Troughton

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

9 a.m.

363

DEMOGRAPHIC HISTORY AND POPULATION STRUCTURE OF AN EMERGING DISEASE VECTOR, *AMBLYOMMA AMERICANUM*, AND ITS POTENTIAL COEVOLUTION WITH "*RICKETTSIA AMBLYOMMII*"

Tonya R. Mixson

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

9:15 a.m.

364

***RICKETTSIAL* DISEASES IN NORTH CAROLINA: IS "*RICKETTSIA AMBLYOMMII*" A POSSIBLE CAUSE OF *RICKETTSIOSIS* REPORTED AS ROCKY MOUNTAIN SPOTTED FEVER?**

Charles Apperson[1], Barry Engber[2], William Nicholson[3], Danny Mead[4], Michael Yabsley[4], Jeffrey Engel[5], Kathy Dail[5], Joey Johnson[5], Wes Watson[1]

[1]North Carolina State University, Raleigh, NC, United States, [2]North Carolina Department of Environment and Natural Resources, Raleigh, NC, United States, [3]Viral and Rickettsial Zoonoses Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]University of Georgia, SE Coop. Wildlife Disease Study, Athens, GA, United States, [5]North Carolina Department of Health and Human Services, Raleigh, NC, United States

9:30 a.m.

365

THE 47 KDA ANTIGEN OF *ORIENTIA TSUTSUGAMUSHI* KARP STRAIN PROVIDED HETEROLOGOUS PROTECTION IN A MOUSE LETHAL CHALLENGE MODEL

Wei-Mei Ching, Yi-Sheng Ni, Chien-Chung Chao, Teik-Chye Chan, Ju Jiang, Suchismita Chattopadhyay, Allen L. Richards

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

Symposium 49

Plasmodium-Mosquito Interactions

International 7

Tuesday, November 14 8:00 a.m. – 9:15 a.m.

Transmission of Plasmodium, the causative agent of malaria, is entirely dependent on its successful development in its mosquito vector. Thus, this part of the life cycle is a potential weak link in the transmission chain. Traditional control measures are either only partially effective (drugs, insecticides) or extremely hard to develop (vaccines). These considerations emphasize the importance of understanding parasite-insect vector interactions because such knowledge could lead to the development of novel control strategies. Exciting new discoveries are being made in this area of knowledge and the symposium will highlight some of these advances. Speakers will be asked to relate their discoveries to potential new strategies for disease control.

CHAIR

Marcelo Jacobs-Lorena

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

8 a.m.

INTRODUCTION

Marcelo Jacobs-Lorena

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

8:05 a.m.

DIFFERENTIAL INFECTIVITY OF LOCAL *PLASMODIUM VIVAX* TO MALARIA VECTORS IN SOUTHERN MEXICO

Mario Henry Rodriguez

Centro de Investigaciones Sobre Enfermedades Infecciosas, Cuernavaca, Morelos, Mexico

8:30 a.m.

GENETIC SCREENING OF THE NATURAL *A. GAMBIAE P*OPULATION FOR PLASMODIUM-CONTROL LOCI

Ken Vernick

University of Minnesota, St. Paul, MN, United States

8:55 a.m.

MOLECULES ESSENTIAL FOR MALARIAL PARASITE INVASION INTO HOST MOSQUITO CELLS

Yasuo Chinzei

Mie University, Tsu, Japan

9:20 a.m.

MOLECULAR INTERACTIONS BETWEEN PLASMODIUM AND MOSQUITO EPITHELIA

Marcelo Jacobs-Lorena

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

Scientific Session 50

Flavivirus I — Dengue I

Marquis 1

Tuesday, November 14 8 a.m. – 9:45 a.m.

CHAIR

Eva Harris

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

Thomas W. Scott

University of California, Davis, CA, United States

8 a.m.

366

DENGUE SURVEILLANCE IN ARAGUA STATE, VENEZUELA: A TEN-YEAR PERIOD RETROSPECTIVE ANALYSIS

Guillermo A. Comach[1], Daria E. Camacho[1], Maritza Cabello de Quintana[1], Anna Chiarello[1], Matilde Jimenez[1], Gloria M. Sierra[1], Maritza Soler[1], Maritza Alvarez[1], Iris Villalobos[2], Edna Rojas[3], Manuel Tovar[3]

[1]LARDIDEV/BIOMED-Universidad de Carabobo/Corposalud Aragua, Maracay, Venezuela, [2]Hospital Central de Maracay/Corposalud Aragua, Maracay, Venezuela, [3]Corposalud Aragua, Maracay, Venezuela

8:15 a.m.

367

PEDIATRIC COHORT STUDY OF DENGUE TRANSMISSION IN NICARAGUA

Samantha N. Hammond[1], Guillermina M. Kuan[2], Angel Balmaseda[3], Crisanta Rocha[4], William Avilés[5], Andrea Nuñez[6], Alcides Gonzalez[6], Juan José Amador[7], **Eva Harris[1]**

[1]Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [2]Centro de Salud Socrates Flores Vivas, Ministerio de Salud, Managua, Nicaragua, [3]Departmento de Virología, Centro Nacional de Diagnástico y Referencia, Ministerio de Salud, Managua, Nicaragua, [4]Hospital Infantil Manuel de Jesús Rivera, Managua, Nicaragua, [5]Sustainable Sciences Institute, Managua, Nicaragua, [6]Centro Nacional de Diagnástico y Referencia, Ministerio de Salud, Managua, Nicaragua, [7]Dirección de Salud Ambiental y Epidemiología, Ministerio de Salud, Managua, Nicaragua

8:30 a.m.

368

IMPACT OF EVIDENCE-BASED COMMUNITY-DERIVED INTERVENTIONS FOR THE CONTROL OF THE DENGUE VIRUS VECTOR *AEDES AEGYPTI* IN MANAGUA, NICARAGUA

Jorge Arostegui[1], Samantha Hammond[2], Alvaro Carcamo[1], Harold Suazo[1], Josefina Coloma[2], Angel Balmaseda[3], Neil Andersson[1], **Eva Harris[2]**, CIETNicaragua Dengue Group[1]

[1]CIETNicaragua, Managua, Nicaragua, [2]Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, [3]Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

8:45 a.m.

369

VIRUS EVOLUTION DURING A SEVERE DENGUE EPIDEMIC IN CUBA, 1997

Rosmari Rodriguez-Roche[1], Mayling Alvarez[1], Tamara S. Gritsun[3], Scott B. Halstead[4], Gustavo Kouri Flores[1], Ernest A. Gould[3], Maria G. Guzman Tirado[1]

[1]"Pedro Kourí" Tropical Medicine Institute, Havana, Cuba, [3]Centre for Ecology and Hydrology, Oxford, United Kingdom, [4]Pediatric Dengue Vaccine Initiative, Bethesda, MD, United States

9 a.m.

370

DENGUE VIRAL SEQUENCE ANALYSIS FROM BOTH HUMAN AND MOSQUITO SAMPLES ISOLATED DURING CLUSTER INVESTIGATIONS IN KAMPHAENG PHET, THAILAND

R. G. Jarman[1], C. Klungthong[2], P. Rodpradit[2], P. Chusak[2], R. V. Gibbons[2], S. Koenraadt[3], S. Thammapalo[4], B. Thaisomboonsuk[2], J. M. Jones[2], A. Nisalak[2], T. P. Endy[5], D. H. Libraty[6], F. A. Ennis[6], A. Rothman[6], A. Srikiatkhachorn[6], R. Sithisiprasasna[2], S. Green[6], T. W. Scott[3], M. P. Mammen[2]

[1]Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand, [2]Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand, [3]University of California, Davis, CA, United States, [4]Ministry of Public Health, Nonthaburi, Thailand, [5]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [6]University of Massachusetts Medical School, Worcester, MA, United States

9:15 a.m.

371

COMPARATIVE ANALYSIS REVEALS GENETIC DIFFERENCES OF DENGUE VIRUSES ISOLATED FROM PATIENTS DURING THE PERIODS OF HIGH, INTERMEDIATE AND LOW TRANSMISSION

Chunlin Zhang[1], Piyawan Chinnawirotpisan[2], Chonticha Klungthong[2], Prinyada Rodpradit[2], Stephen J. Thomas[2], Mammen P. Mammen[2]

[1]Military Infectious Diseases Research Program, US Army Medical and Materiel Command, Fort Detrick, MD, United States, [2]US Army Medical Component-Armed Force Research Institute of Medical Sciences, Bangkok, Thailand

(ACMCIP Abstract)

9:30 a.m.

372

AN INDIVIDUAL BASED MODEL FOR HETEROGENEOUS DENGUE TRANSMISSION INCORPORATING BOTH AGE-DEPENDENT BITING AND SPATIAL HETEROGENEITY

Sharon L. Minnick, Amy C. Morrison, Thomas W. Scott

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

Scientific Session 51

Malaria — Molecular Markers of Drug Resistance

Marquis 2

Tuesday, November 14 8:00 a.m. – 9:45 a.m.

CHAIR

Abdoulaye A. Djimde

Malaria Research Training Center DEAP/FMPOS, University of Bamako, Mali, Bamako, Mali

Jean Bosco Ouedraogo

Institut de Recherche en Sciences de la Sante, Bobo-Dioualasso, Burkina Faso

8 a.m.

373

ARTEMETHER-LUMEFANTRINE VERSUS AMODIAQUINE PLUS SULFADOXINE-PYRIMETHAMINE FOR THE TREATMENT OF UNCOMPLICATED *FALCIPARUM* MALARIA IN BURKINA FASO

Issaka Zongo[1], Dorsey Grant[2], Noel Rouamba[1], Halidou Tinto[1], Christian Dokomajilar[2], Robert T. Guiguemde[3], Philip J. Rosenthal[2], and Jean Bosco Ouedraogo[1]

[1]Institut de Recherche en Sciences de la Sante, Direction Regionale de l'Ouest, Bobo-Dioualasso, Burkina Faso, [2]University of California, San Francisco, San Francisco, CA, United States, [3]Centre Muraz, Bobo-Dioualasso, Burkina Faso

8:15 a.m.

374

ARTEMISININ RESISTANCE ALONG THE THAI-CAMBODIAN BORDER?

Harald Noedl[1], Krisada Jongsakul[2], Wichai Satimai[3], Dokruk Tongkong[4], Jeeraphat Sirichaisinthop[5], Sabaithip Sriwichai[2], Mark Fukuda[2]

[1]Medical University of Vienna, Vienna, Austria, [2]United States Army Medical Component-Armed Forces Research Institute of Medical Sciences (USAMC-AFRIMS), Bangkok, Thailand, [3]Office of Diseases Prevention and Control Region 3, Chonburi, Thailand, [4]Vector Borne Diseases Control Center 3.4, Trat, Thailand, [5]Office of Vector Borne Disease Control, Saraburi, Thailand

8:30 a.m.

375

SELECTION OF RESISTANCE-MEDIATING ALLELES AFTER TREATMENT WITH ARTEMISININ-BASED COMBINATION THERAPY IN UGANDA

Sammuel L. Nsobya[1], Moses Joloba[2], Christian Dokomajilar[3], Grant Dorsey[4], Philip J. Rosenthal[4]

[1]Makerere University, Kampala, Uganda, [2]Department of Microbiology, Makerere University, Kampala, Uganda, [3]University of California, San Francisco, CA, United States, [4]Department of Medicine, University of California, San Francisco, CA, United States

8:45 a.m.

376

THE TRIPLE AND QUADRUPLE MUTANT ALLELES OF *DIHYDROFOLATE REDUCTASE-THYMIDYLATE SYNTHASE* FROM *P. FALCIPARUM* ARE MORE EFFICIENT *IN VITRO* THAN THE WILD TYPE ALLELE

Carol H. Sibley[1], Conner I. Sandefur[1], Jason M. Wooden[2]

[1]University of Washington, Seattle, WA, United States, [2]Puget Sound Blood Center, Seattle, WA, United States

9 a.m.

377

ORIGIN AND DISSEMINATION OF CHLOROQUINE-RESISTANT *PFCRT* ALLELES IN ASIA, AFRICA, AND SOUTH AMERICA

Rajeev K. Mehlotra[1], Gabriel Mattera[1], Moses J. Bockarie[2], Jason D. Maguire[3], Kevin Baird[3], Y. D. Sharma[4], James W. Kazura[1], Grant Dorsey[5], Philip J. Rosenthal[5], David J. Fryauff[6], Timothy J. Anderson[7], Peter A. Zimmerman[1]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Papua New Guinea Institute of Medical Research (PNGIMR), Madang, Papua New Guinea, [3]NAMRU2, Jakarta, Indonesia, [4]All India Institute of Medical Sciences (AIIMS), New Delhi, India, [5]Department of Medicine, San Francisco General Hospital, University of California San Francisco, San Francisco, CA, United States, [6]Naval Medical Research Center, Silver Spring, MD, United States, [7]Southwest Foundation for Biomedical Research, San Antonio, TX, United States

9:15 a.m.

378

VARIABLE LENGTH SIMPLE SEQUENCE REPEATS IN PFCRT INTRONS PROVIDE EVIDENCE FOR CONTINUING EVOLUTION FOLLOWING CHLOROQUINE-ASSOCIATED SELECTIVE SWEEPS

Jeana T. DaRe, Rajeev K. Mehlotra, Peter A. Zimmerman

Case Western Reserve University, Cleveland, OH, United States

9:30 a.m.

379

PFNHE POLYMORPHISMS AND CLINICAL QUININE RESISTANCE IN MALI

Aminatou Kone[1], Abdoul H. Beavogui[1], Oumar B. Traore[1], Antoine Dara[1], Souleymane Dama[1], Jianbing Mu[2], Ousmane Toure[1], Ogobara K. Doumbo[1], Thomas E. Wellems[2], Abdoulaye A. Djimde[1]

[1]University of Bamako, Bamako, Mali, [2]Laboratory of Malaria and Vector Research/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

Exhibit Hall Open

International Level

Tuesday, November 14 9:30 a.m. – 10:30 a.m.

Coffee Break

International Level

Tuesday, November 14 9:45 a.m. – 10:15 a.m.

Poster Session B Setup

International and Skyline Levels

Tuesday, November 14 9:45 a.m. – 10:15 a.m.

Poster Session B Viewing

International and Skyline Levels

Tuesday, November 14 10:15 a.m. – Noon

Symposium 52

The Schistosomiasis Agenda: Completing the Conversation

Sydney/Zurich

Tuesday, November 14 10:15 a.m. – Noon

This symposium is the third part of a conversation that began at the 2005 ASTMH meeting, continued at ICOPA XI and involved multiple electronic communications among many members of the schistosomiasis community. The goal of this conversation is to develop an agenda for schistosomiasis that consists of those topics that the schistosomiasis community feels are important. The aim is not to prioritize one component over another, but to include those things that would be worth having or knowing if the resources were available. The purpose of a schistosomiasis agenda is to provide greater cohesion among schistosomiasis investigators and facilitate funding opportunities to advance the field.

CHAIR

W. Evan Secor

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

Daniel G. Colley

University of Georgia, Athens, GA, United States

Symposium 53

Malarial Retinopathy: Clinical Features, Pathological Correlations and Implications for the Pathogenesis of Severe Malaria

Bonn/London

Tuesday, November 14 10:15 a.m. – Noon

Malarial retinopathy, a constellation of retinal changes specific to severe malaria which includes retinal whitening, blood vessels abnormalities and white-centered hemorrhages, is possibly one of the most accurate associations to the phenomenon of cerebral sequestration available to the clinician caring for patients with severe malaria. Recent advances in the understanding of this phenomenon and the associated clinical and pathological findings prove to be extremely valuable in the diagnosis of severe malaria. Presentation of fundus photographs from a pediatric study will be followed by a clinical discussion of the diagnostic and prognostic usefulness of this retinopathy. A pathologist will present and discuss the retinal histopathology associated with each of the changes and relate them to cerebral pathology. Finally, we will present the findings of fluorescein angiography in children with cerebral malaria demonstrating blood flow abnormalities in the retinal microvasculature.

CHAIR

Terrie Taylor

Michigan State University, East Lansing, MI, United States

10:15 a.m.

INTRODUCTION

Terrie Taylor

Michigan State University, East Lansing, MI, United States

10:20 a.m.

THE OPHTHALMOLOGIC FEATURES OF MALARIAL RETINOPATHY

Susan Lewallen

Kilimanjaro Centre for Community Ophthalmology, Moshi, United Republic of Tanzania

10:45 a.m.

CLINICAL CORRELATES OF MALARIAL RETINOPATHY

Kalifa Bojang

The Medical Research Council, Banjul, Gambia

11:10 a.m.

PATHOLOGICAL CORRELATES OF MALARIAL RETINOPATHY

Valerie White

Vancouver General Hospital, Vancouver, BC, Canada

11:35 a.m.

ANGIOGRAPHIC DEMONSTRATION OF RETINAL BLOOD FLOW ABNORMALITIES IN CHILDREN WITH CEREBRAL MALARIA

Nicholas Beare

St. Paul's Eye Unit, Liverpool, United Kingdom

Symposium 54

Innovative Drug Discovery for Tropical Diseases

International 5/6

Tuesday, November 14 10:15 a.m. – Noon

The symposium will discuss a new approach to drug discovery that involve networks and partnerships with industry and academia, as well as developing country scientists and institutions. Specific partnerships and network activities for lead discovery covering TDR target diseases will be presented. The advantages of this approach in ensuring sustainable availability of lead compounds for tropical diseases will be highlighted.

CHAIR

Solomon Nwaka

World Health Organization, Geneva, Switzerland

Dyann Wirth

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

10:15 a.m.

OPENING REMARKS

Dyann Wirth

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

10:20 a.m.

A NEW APPROACH TO DRUG DISCOVERY FOR TROPICAL DISEASES

Solomon Nwaka

World Health Organization, Geneva, Switzerland

10:45 a.m.

PFIZER/WHO-TDR PARTNERSHIP FOR DRUG DISCOVERY FOR TROPICAL DISEASES

Michael Witty

Pfizer, Sandwich, Kent, United Kingdom

11:10 a.m.

WHO/TDR DRUG TARGET PRIORITIZATION NETWORK AND DATABASE

David Roos

University of Pennsylvania, Philadelphia, PA, United States

11:35 a.m.

DRUG SCREENING FOR TROPICAL DISEASES I

Reto Brun

Swiss Tropical Institute, Basel, Switzerland

11:55 a.m.

CLOSING REMARKS/CONCLUSIONS

Dyann Wirth

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

Symposium 55

Global Disease Threats and Response

Copenhagen/Stockholm/Amsterdam

Tuesday, November 14 10:15 a.m. – Noon

International emerging disease threats influence both health programs and policies in areas of the world where public health measures have been largely successful. In many highly developed nations where communicable diseases control have been effective, public health capacities and infrastructure can be challenged by globally emerging communicable disease threats. National responses alone may be less effective than regional or international approaches to mitigating risk. Regional responses to these emerging communicable disease threats require new approaches, new knowledge and new policy frameworks. This symposium will highlight how these emerging pressures have resulted in more global mechanisms for surveillance and reporting, an international single point regulatory framework for response and discuss opportunities and new initiatives in health education and training.

CHAIR

Douglas W. MacPherson

Migration Health Consultants Inc., Cheltenham, ON, Canada

Brian D. Gushulak

Migration Health Consultants Inc., Vienna, Austria

10:15 a.m.

INTERNATIONAL DISEASE CASE IMPORTATION, DETECTION AND REPORTING OUTCOMES — THE EUROPEAN EXPERIENCE

Ron Behrens

Hospital for Tropical Diseases, London, United Kingdom

10:40 a.m.

INTERNATIONAL DISEASE CASE IMPORTATION, DETECTION AND REPORTING OUTCOMES — THE UNITED STATES EXPERIENCE

David O. Freedman

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

11:05 a.m.

USE OF SINGLE-POINT, HARMONIZED SURVEILLANCE AND REPORTING FOR EVENTS OF GLOBAL PUBLIC HEALTH SIGNIFICANCE — MOVING FROM ANCIENT PESTILENCE TO MODERN DISEASE EVENTS

May Chu

World Health Organization, Geneva, Switzerland

11:30 a.m.

DISEASE OCCURRENCE IN MIGRANTS: NATIONAL AND LOCAL PROGRAM RESPONSES AND IMPLICATIONS FOR CLINICAL PRACTITIONERS AND MEDICAL EDUCATION

William M. Stauffer

University of Minnesota, Minneapolis, MN, United States

Symposium 56

Malaria Vaccine Development: Recombinant Protein Expression Platforms

Marquis 3

Tuesday, November 14 10:15 a.m. – Noon

The malarial parasite remains a scourge on human civilization, and in recent years, the incidence of the disease has been increasing dramatically. As many as three children die per minute as a result of infection from *Plasmodium falciparum*, the most deadly form of the parasite. Vaccination against immunogenic and functional molecules of the parasite life cycle, such as those required for erythrocyte invasion, has the potential to reduce malaria-associated severe morbidity and mortality. It is likely that studies to identify candidate antigens and subunit vaccine development will ultimately involve expression of recombinant proteins in heterologous systems that may introduce posttranslational modifications, which are not present in the authentic parasite protein. Subsequent alterations of antigen integrity and/or stability compared to the native molecule are likely to detrimentally affect the functionality of immune response towards the recombinant protein. In case of *Plasmodium falciparum*, glycosylphosphatidylinositol (GPI) anchors are present in all surface proteins. Glycosylation is known to play a critical role in antigen recognition. Therefore, the choice of expression system for these antigens is important; bacterial expression systems, such as that of *Escherichia coli*, do not incorporate glycans, whereas yeast or baculovirus may introduce inappropriate glycosylation at positions that are not modified in the native antigen. Evaluation of the effect of such posttranslation modifications is of interest, considering the global scientific and economic effort currently invested in the development of malaria vaccines.

CHAIR

Sanjay Singh

National Institutes of Health, Rockville, MD, United States

Lee Hall

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

10:15 a.m.
YEAST EXPRESSION SYSTEM

Kim Lee Sim
Protein Potential, Rockville, MD, United States

10:40 a.m.
CELL FREE EXPRESSION SYSTEM

Takafumi Tsuboi
Ehime University, Matsuyama, Ehime, Japan

11:05 a.m.
TRANSGENIC ANIMAL EXPRESSION SYSTEM

Harry Meade
GTC Biotherapeutics, Framingham, MA, United States

11:30 a.m.
***E. COLI* EXPRESSION SYSTEM**

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

Symposium 57

Yellow Fever Vaccine — A Status Report of Viscerotropic and Neurotropic Disease and the Host Immune Response

Supported with funding from sanofi pasteur

Marquis 4

Tuesday, November 14 10:15 a.m. – Noon

This symposium will review the latest on yellow fever epidemiology, clinical and epidemiologic features of viscerotropic and neurotropic adverse events to yellow fever vaccination and the latest international research on host immune response mechanisms to YEL vaccine.

CHAIR
Martin S. Cetron
Centers for Disease Control and Prevention, Atlanta, GA, United States

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

Drs. Hayes and Cetron are participating on behalf of the U.S. Public Health Service without support from sanofi pasteur.

10:15 a.m.
INTRODUCTION

Martin S. Cetron
Centers for Disease Control and Prevention, Atlanta, GA, United States

10:25 a.m.
INTRODUCTION

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

10:35 a.m.
YELLOW FEVER EPIDEMIOLOGY: AN UPDATE ON EXPOSURE IN AFRICA AND LATIN AMERICA

Eduardo Massad
University of Sao Paulo, Sao Paulo, Brazil

10:55 a.m.
CLINICAL AND EPIDEMIOLOGICAL FEATURES OF VISCEROTROPIC AND NEUROTROPIC ADVERSE EVENTS

Dirk Teuwen
sanofi pasteur, Lyon, France

11:15 a.m.
FUNCTIONAL AND PHENOTYPIC CHARACTERIZATIONS OF YF-SPECIFIC MEMORY RESPONSE FOLLOWING VACCINATION WITH 17D VIRUS

Elias Kamal Haddad
University of Montreal, Montreal, QC, Canada

11:35 a.m.
ADAPTIVE AND INNATE IMMUNE RESPONSES TO YELLOW FEVER VACCINE

Bali Pulendran
Emory University, Atlanta, GA, United States

Scientific Session 58

Protozoa

International 4

Tuesday, November 14 10:15 a.m. – Noon

CHAIR
Thaddeus Graczyk
Baltimore, MD, United States

Barbara Mann
Charlottesville, VA, United States

10:15 a.m.
380

A LONGITUDINAL STUDY OF *CRYPTOSPORIDIUM* INFECTION IN CHILDREN IN DHAKA: THE ROLE OF GENETIC SUSCEPTIBILITY TO INFECTION

Beth D. Kirkpatrick[1], Rashidul Haque[2], Priya Duggal[3], Dinesh Mondal[2], Cathy Larsson[1], Meera Sreenivasan[1], Kristine Peterson[4], Lauren Lockhart[4], Salwa Khan[1], William A. Petri[4], Jasmin Akter[2]

[1]University of Vermont College of Medicine, Burlington, VT, United States, [2]International Center for Diarrhoeal Disease Research (ICDDR)B, Dhaka, Bangladesh, [3]National Human Genome Research Institute (NGHRI), National Institutes of Health, Bethesda, MD, United States, [4]University of Virginia, Charlottesville, VA, United States

(ACMCIP Abstract)

10:30 a.m.

381

CONFIRMATION OF ZOONOTIC TRANSMISSION OF *ENTEROCYTOZOON BIENEUSI*

Vitaliano A. Cama[1], Lilia Cabrera[2], Julie Pearson[3], Ynes Ortega[4], Robert Gilman[5], Lihua Xiao[3]

[1]Centers for Disease Control and Prevention-Atlanta Research and Education Foundation, Atlanta, GA, United States, [2]Asociación Benéfica PRISMA, Lima, Peru, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]University of Georgia, Griffin, GA, United States, [5]Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

10:45 a.m.

382

MICROSPORIDIA SPECIES KNOWN TO INFECT HUMANS ARE PRESENT IN AQUATIC BIRDS; IMPLICATIONS FOR TRANSMISSION VIA WATER?

Thaddeus K. Graczyk[1], Anna Slodkowicz-Kowalska[2], Leena Tamang[1], S. Jedrzejewski[2], A. Nowosad[3], P. Zduniak[3], P. Solarczyk[2], Autumn Girouard[1], Hanna Majewska[2], Govinda Visvesvara[4]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Poznan University of Medical Sciences, Poznan, Poland, [3]Adam Mickiewicz University, Poznan, Poland, [4]Centers for Disease Control and Prevention, Atlanta, GA, United States

11 a.m.

383

CATS AND THEIR FECES: A PROBLEM FOR PUBLIC HEALTH AND WILDLIFE

Haydee A. Dabritz[1], E. Robert Atwill[2], Ian A. Gardner[1], Melissa A. Miller[3], Michael R. Lappin[4], Andrea E. Packham[1], Ann C. Melli[1], **Patricia A. Conrad[1]**

[1]University of California, Davis, CA, United States, [2]Veterinary Medicine and Teaching Research Center, Tulare, CA, United States, [3]California Department of Fish and Game, Santa Cruz, CA, United States, [4]Colorado State University, Fort Collins, CO, United States

11:15 a.m.

384

MICROARRAY-MEDIATED TRANSCRIPTOME COMPARISON OF *ENTAMOEBA HISTOLYTICA* TROPHOZOITES *IN VIVO* AND *IN VITRO*

Carol A. Gilchrist[1], Eric Houpt[1], Nino Trapaidze[2], Zhangjun Fei[3], Oswald Crasta[3], Bruno Sobral[3], Amon Asgharpour[1], Clive Evans[3], Susan Martino-Catt[3], Duza J. Baba[1], Suzanne Stroup[1], Shinjiro Hamano[1], Gretchen Ehrenkaufer[4], Mami Okada[5], Upinder Singh[4], Tomoyoshi Nozaki[5], Barbara J. Mann[1], William A. Petri[1]

[1]University of Virginia HSC, Charlottesville, VA, United States, [2]National Center for Disease Control of Georgia, Tbilisi, Georgia, [3]Cyberinfrastructure Group, Virginia Bioinformatics Institute, Blacksburg, VA, United States, [4]Stanford University School of Medicine, Stanford, CA, United States, [5]Gunma University Graduate School of Medicine, Gunma, Japan

11:30 a.m.

385

A MULTIPLEX REAL-TIME PCR ASSAY FOR SIMULTANEOUS DETECTION OF FREE-LIVING AMEBAS IN CLINICAL SPECIMENS

Yvonne L. Qvarnstrom[1], Govinda S. Visvesvara[2], Rama Sriram[2], Alexandre J. da Silva[2]

[1]Centers for Disease Control and Prevention/Atlanta Research and Education Foundation, Atlanta, GA, United States, [2]Centers for Disease Control and Prevention-Division of Parasitic Diseases, Atlanta, GA, United States

(ACMCIP Abstract)

11:45 a.m.

386

PATHOGENIC PROTOZOA IN SAF-PRESERVED STOOL: RESULT REPRODUCIBILITY AND SPECIMEN DETERIORATION

Michael D. Libman[1], Theresa W. Gyorkos[2], Evelyne Kokoskin[2], J. Dick MacLean[2]

[1]McGill University Tropical Disease Centre, Montreal, QC, Canada, [2]McGill University, Montreal, QC, Canada

Scientific Session 59

Intestinal and Tissue Helminths I: Cysticercosis

International 7

Tuesday, November 14 10:15 a.m. – Noon

CHAIR

Mark Eberhard

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

A. Clinton White

Baylor College of Medicine, Houston, TX, United States

10:15 a.m.

387

WHERE ARE THE TAPEWORMS?

Ana Flisser

Universidad Nacional Autónoma de Mexico, Faculty of Medicine, Mexico City, Mexico

10:30 a.m.

388

***TAENIA SOLIUM* ONCOSPHERE *IN VITRO* ADHERENCE**

Manuela R. Verastegui[1], Yanina Arana[1], Robert H. Gilman[2], Janette Velasquez[1], Marilu Farfan[1], Hector H. Garcia[1], Armando E. Gonzalez[3], Cesar Gavidia[3]

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

(ACMCIP Abstract)

10:45 a.m.

389

COMPARISON OF ANTI-PARASITIC REGIMENS FOR PORCINE CYSTICERCOSIS

Javier A. Bustos[1], Armando E. Gonzales[2], Juan A. Jimenez[3], Mary L. Rodriguez[3], Lelia Sanchez-Hidalgo[2], Rafael Manzanedo[2], Robert H. Gilman[4], Hector H. Garcia[3], For the Cysticercosis Working Group in Peru[5]

[1]Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, [3]Cysticercosis Unit, Instituto Especializado de Ciencias Neurologicas, Lima, Peru, [4]Department of International Health, Johns Hopkins University School of Hygiene and Public Health, Baltimore, MD, United States, [5]Universidad Peruana Cayetano Heredia, Lima, Peru

11 a.m.

390

NEUROCYSTICERCOSIS — FAST INFLAMMATORY RESPONSE IN PIG BRAINS FOLLOWING ONSET OF TREATMENT WITH PRAZIQUANTEL OR ALBENDAZOLE

Juan A. Jimenez[1], Gloria P. Gomez[2], Rafael Manzanedo[3], Lelia Sanchez-Hidalgo[3], Silvia Rodriguez[1], Armando E. Gonzales[3], Hector H. Garcia[1], For the Cysticercosis Working Group in Peru[4]

[1]Cysticercosis Unit, Instituto Especializado en Ciencias Neurologicas, Lima, Peru, [2]School of Medicine, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, [4]Universidad Peruana Cayetano Heredia, Lima, Peru

(ACMCIP Abstract)

11:15 a.m.

391

PIG MODEL TO IDENTIFY AND QUANTIFY CALCIFICATION PROCESS OF CYSTICERCOSIS LESIONS

Javier A. Bustos[1], Armando E. Gonzales[2], Juan A. Jimenez[3], Mary L. Rodriguez[3], Lelia Sanchez-Hidalgo[2], Rafael Manzanedo[2], Jaime Cok[4], Robert H. Gilman[5], Hector H. Garcia[3], For the Cysticercosis Working Group in Peru[6]

[1]Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, [3]Cysticercosis Unit, Instituto Especializado en Ciencias Neurologicas, Lima, Peru, [4]Departament of Pathology, Hospital Nacional Cayetano Heredia, Lima, Peru, [5]International Health Department, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, [6]Universidad Peruana Cayetano Heredia, Lima, Peru

(ACMCIP Abstract)

11:30 a.m.

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NEUROCYSTICERCOSIS IN *T. SOLIUM* TAPEWORM CARRIERS

Silvia Rodriguez[1], Luz M. Moyano[2], Juan A. Jimenez[1], Guillermo Gonzalvez[2], Juan C. Chero[2], Victor C. Tsang[3], Armando E. Gonzales[4], Robert H. Gilman[5], Hector H. Garcia[1], For the Cysticercosis Working Group in Peru[6]

[1]Cysticercosis Unit, Instituto Especializado en Ciencias Neurologicas, Lima, Peru, [2]Department of Microbiology, School of Science and Cysticercosis Elimination Project - Tumbes, Peru, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Parasitic Diseases Branch Division of Parasitic Diseases, National Center for Infectious Diseases, Atlanta, GA, United States, [4]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, [5]International Health Department, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, [6]Universidad Peruana Cayetano Heredia, Lima, Peru

11:45 a.m.

393

BRAIN CALCIFICATIONS IN 26% OF GENERAL POPULATION IN A CYSTICERCOSIS-ENDEMIC VILLAGE IN TUMBES, PERU

Guillermo Gonzalvez[1], Juan C. Chero[1], Luz M. Moyano[1], Javier A. Bustos[2], Silvia Rodriguez[3], Javier Pretell[3], Victor C. Tsang[4], Robert H. Gilman[5], Hector H. Garcia[3], For the Cysticercosis Working Group in Peru[6]

[1]Department of Microbiology, School of Science and Cysticercosis Elimination Project - Tumbes, Peru, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Cysticercosis Unit, Instituto Especializado en Ciencias Neurologicas, Lima, Peru, [4]Parasitic Diseases Branch Division of Parasitic Diseases, National Center for Infectious Diseases, Atlanta, GA, United States, [5]International Health Department, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, [6]Universidad Peruana Cayetano Heredia, Lima, Peru

Symposium 60

Evolution of Mosquito-Borne Viruses

Marquis 1

Tuesday, November 14 10:15 a.m. – Noon

This symposium focuses on current studies of arbovirus evolution. The speakers will combine a theoretical perspective with observational and experimental studies to assess the evolutionary mechanisms for arbovirus persistence, emergence and extinction. The research to be presented will demonstrate how an evolutionary perspective leads to a more precise understanding of the ecological dynamics of arthropod-borne viruses.

CHAIR

Laura D. Kramer

New York State Department of Health, Wadsworth Center, Slingerlands, NY, United States

Gregory D. Ebel

New York State Department of Health, Wadsworth Center, Slingerlands, NY, United States

10:15 a.m.

INTRODUCTION

Laura D. Kramer

New York State Department of Health, Wadsworth Center, Slingerlands, NY, United States

10:20 a.m.

HOST RANGE CHANGES AND ARBOVIRAL EMERGENCE

Scott C. Weaver

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

10:45 a.m.

WEST NILE VIRUS QUASISPECIES DYNAMICS

Gregory D. Ebel

New York State Department of Health, Wadsworth Center, Slingerlands, NY, United States

11:10 a.m.

IMPACT OF PASSAGE ON FLAVIVIRUS FITNESS

Laura D. Kramer

New York State Department of Health, Wadsworth Center, Slingerlands, NY, United States

11:35 a.m.

MOLECULAR EVOLUTION AND PHYLODYNAMICS OF DENGUE VIRUS

Edward C. Holmes

Center for Infectious Disease Dynamics, University Park, PA, United States

Symposium 61

New Initiatives in Malaria: Insights from the Mosquito Side of the Equation

Supported with funding from the Burroughs Wellcome Fund

Marquis 2

Tuesday, November 14 10:15 a.m. – Noon

This session contains highlights from the Burroughs Wellcome Fund New Initiatives in Malaria program.

Exhibit Hall Open/Light Lunch

International Level

Tuesday, November 14 Noon – 1:30 p.m.

Poster Session B (#394–645)

Skyline Level—#394–508
International Level—#509–645

Tuesday, November 14 Noon – 1:30 p.m.

Arthropods/Entomology – Other

394

DATHOXIN-1, A DUAL FUNCTIONAL AND BLOOD FEEDING REGULATED SALIVARY GLAND PROTEIN OF THE TICK, *DERMACENTOR ANDERSONI*

Jianxin Sun[1], F. Alarcon-Chaidez[1], J.B. Schenkman[2] and S.K. Wikel[1]

University of Connecticut Health Center, Farmington, CT, United States

395

NOVEL METHODS FOR ADULT AND IMMATURE SAND FLY CONTROL — PHASE I, LABORATORY TRIALS

Victoria B. Solberg[1], Carol P. Schnupp[2], V. Michelle Chenault[3]

[1]Walter Reed Army Institute of Research, Silver Spring, MN, United States, [2]Uniformed Services University of the Health Sciences, Bethesda, MD, United States, [3]Uniform Services of the Health Sciences, Bethesda, MD, United States

396

PRELIMINARY STUDIES ON THE FEEDING RELATIONSHIPS WITHIN MACROINVERTEBRATES IN WATER BODIES ASSOCIATED WITH *MYCOBACTERIUM ULCERANS* DISEASE TRANSMISSION

Charles Quaye[1], Dziedzom K. de Souza[1], Lydia Mosi[1], Joseph S. Amakye[2], Michael D. Wilson[1], Daniel A. Boakye[1]

[1]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [2]Water Research Institute, Council for Scientific and Industrial Research, Accra, Ghana

397

ASSESSEMENT OF TRIATOMA DIMIDIATA DISPERSAL IN THE YUCATAN PENINSULA OF MEXICO USING MORPHOMETRY AND MICROSATELLITE MARKERS

Eric Dumonteil[1], Frederic Tripet[2], Maria Jesus Ramirez-Sierra[1], Vincent Payet[1], Gregory Lanzaro[3], Frederic Menu[4]

[1]Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico, [2]Keele University, Staffordshire, United Kingdom, [3]University of California Davis, Davis, CA, United States, [4]Universite de Lyon, Lyon, France

398

ESTABLISHMENT OF BASELINE PYRETHROID SUSCEPTIBILITY LEVELS IN THE MAIN MALARIA VECTORS IN GHANA

Isaie Sibomana[1], Samuel Kahindi[1], Kodjo Sakyi[1], Abba Wilmot[2], Dziedzom de Souza[1], Maxwell Appawu[1], Michael David Wilson[1], Daniel Boakye[1]

[1]Noguchi Memorial Institute for Medical Research (NMIMR), Accra, Ghana, [2]National Malaria Control Programme, Accra, Ghana

Bacteria – Diarrheal Diseases/Mucosal Immunity

399

INTERLEUKIN-1 RECEPTOR ANTAGONIST (IL1RA) POLYMORPHISMS AND DIARRHEA OUTCOMES IN BRAZILIAN SHANTYTOWN CHILDREN

Reinaldo B. Oria[1], **Meghan R. Thompson[2]**, Relana Pinkerton[3], Carlos M. Vieira[3], Eunice B. Carvalho[1], Terezinha J. Santos[1], Aldo A. Lima[1], Richard L. Guerrant[3]

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

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ROCKY MOUNTAIN SPOTTED FEVER IN THE UNITED STATES, 2003-2005

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DEVELOPMENT OF DRUG RESISTANCE IN *MYCOBACTERIUM TUBERCULOSIS*

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CHARACTERIZATION OF *STREPTOCOCCUS PNEUMONIAE* ISOLATES PREVALENT AT GA-RANKUWA HOSPITAL, SOUTH AFRICA

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STUDY THE MAGNITUDE OF SEPTIC ARTHRITIS AMONG NEONATES ADMITTED TO NICU

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DIFFERENTIATING *TAENIA SP* EGGS — DOES ZIEHL NEELSEN STAINING HELP?

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THE EFFECT OF TIMING AND FREQUENCY OF MALARIA INFECTION DURING PREGNANCY ON LOW BIRTH WEIGHT AND MATERNAL ANEMIA

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MUCOSAL LEISHMANIASIS IN A CENTRAL AMERICAN IMMIGRANT DIAGNOSED WITH REAL-TIME PCR: CASE REPORT AND REVIEW OF DIAGNOSTIC AND TREATMENT ISSUES

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HIGH MALARIA MORTALITY DURING MALARIA EPIDEMICS IN KENYA, BURUNDI AND ETHIOPIA

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THE IMPACT OF ANAEMIA, FALCIPARUM MALARIA AND MALNUTRITION ON THE PSYCHOMOTOR DEVELOPMENT OF YOUNG CHILDREN EXPOSED TO MALARIA TRANSMISSION

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SAFETY OF SURGICAL TREATMENT FOR CYSTIC ECHINOCOCCOSIS OF THE LIVER: PRELIMINARY EVALUATION OF THE LITERATURE (1980-2005)

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REVERSIBLE LYMPHATIC DYSFUNCTION CAUSED BY *GNATHOSTOMA SPINIGERUM* INFECTION

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COMMUNITY USE AND IMPACT OF A SUPPLEMENTAL WEANING FOOD DURING A DIARRHEA AND MALNUTRITION OUTBREAK — BOTSWANA

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CLINICAL DIFFERENCES BETWEEN IMMUNECOMPETENT AND IMMUNECOMPROMISE PATIENTS INFECTED WITH *STRONGYLOIDES STERCORALIS*

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THE SPECIFIC GENOTYPE OF INDONESIA CHIKUNGUNYA VIRUSES ISOLATED FROM 1983-2001

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EPIDEMICS OF AN "ENDEMIC" MYCOSIS: A SUMMARY OF FOCAL OUTBREAKS OF COCCIDIOIDOMYCOSIS 1940-2004

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LEISHMANIASIS AND HIV CO-INFECTION IN NORTHCENTRAL VENEZUELA

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CUTANEOUS LEISHMANIASIS IMPORTED FROM COLOMBIA INTO NORTHCENTRAL VENEZUELA: A REVIEW OF 29 CASES

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HEPATITIS E INFECTION IN THAI TROOPS DEPLOYED WITH UNITED NATIONS PEACEKEEPING FORCES

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STUDIES ON SOME NUTRITIONAL FACTORS IN THE SEVERITY OF VISCERAL LEISHMANIASIS

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CLINICOPATHOLOGICAL CHANGES IN DERMAL LESIONS OF POST KALA AZAR DERMAL LEISHMANIASIS (PKDL) CASES IN BIHAR, INDIA

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THERAPEUTIC EFFICACY OF AMODIAQUINE, SULFADOXINE/PYRIMETHAMINE, AND COARTEM® IN CHILDREN WITH UNCOMPLICATED FALCIPARUM MALARIA AT BUTIMBA SENTINEL SITE IN MWANZA, TANZANIA

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THE EFFECTS OF STUDY ENROLLMENT, BEDNET USE, AND CURATIVE THERAPY ON MALARIA INFECTION, ANEMIA, AND GROWTH IN YOUNG GHANAIAN CHILDREN

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MICROSPHERE ASSAY FOR RELIABLE IDENTIFICATION OF *CRYPTOSPORIDIUM HOMINIS* AND *CRYPTOSPORIDIUM PARVUM* IN STOOLS

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IMPAIRED ABILITY TO DOWN MODULATE THE IMMUNE RESPONSE

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CHARACTERIZATION OF ONE OUTBREAK OF TYPHOID FEVER IN APARTADÓ- ANTIOQUIA, COLOMBIA

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COMPARISON OF REAL-TIME PCR PROTOCOLS FOR DETECTION OF *CYCLOSPORA CAYETANENSIS* IN STOOL SAMPLES

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(ACMCIP Abstract)

Ectoparasite-Borne Disease

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TICKS INFECTED WITH *RICKETTSIA* IN VILLETA, CUNDINAMARCA, COLOMBIA

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VECTOR-PATHOGEN SPECIFICITY OF BACTERIAL GUILDS MAINTAINED BY DOG TICKS AND LONE STAR TICKS

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Flaviviridae – Dengue

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OPTIMIZATION OF DENGUE SERONEUTRALIZATION ASSAY: NEW FORMAT ASSAYS AND CRITICAL PARAMETERS

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(ACMCIP Abstract)

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EVALUATION OF A DRY-FORMAT GROUP-SPECIFIC REAL TIME REVERSE TRANSCRIPTASE-PCR ASSAY FOR DENGUE VIRUS

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REPLICATION AND TEMPERATURE-SENSITIVITY PROFILES ON VERO, HUH-7 AND HEPG2 CELLS, OF, EITHER DENGUE VIRUS ATTENUATED STRAINS, OR CHIMERIC YF VIRUSES PRESENTING DENGUE ENVELOPE, COMPARED TO WILD-TYPE DENGUE VIRUS STRAINS

Veronique Barban, Yves Girerd, Nathalie Mantel, Marion Aguirre, Sophie Colombani, Sandrine Gulia, Brice Madeline, Florence Petiard, Jean Lang

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(ACMCIP Abstract)

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LARVAL COMPETITION AFFECTS DENGUE VIRUS INFECTION IN ADULT *AEDES AEGYPTI* AND *A. ALBOPICTUS*

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DENGUE VIRUSES-BINDING PROTEINS FROM *AEDES* MOSQUITO SALIVARY GLANDS AND C6/36 CELLS

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OUTBREAK OF CLASSIC DENGUE FEVER IN THE SOUTHERN PERUVIAN CITY OF PUERTO MALDONADO

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DENGUE VIRUS DETECTION USING AN ENZYME LINKED IMMUNOSORBENT ASSAY ON INFECTED CELL CULTURE (ELISA-ICC)

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DENGUE-2 VIRUS ALMOST ABOLISH YELLOW FEVER VIRUS REPLICATION IN C6/36 CELLS

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CHARACTERIZATION OF DENGUE VIRUSES PREVALENT IN THAILAND

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HLA MAY CONTROL VIRUS SEROTYPE SPECIFIC IMMUNITY IN DENGUE INFECTION

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DETECTION OF DENGUE VIRAL ANTIGENS AND NEGATIVE STRAND RNA WITHIN PLATELETS SUGGESTS THE SUSCEPTIBILITY OF PLATELETS TO DENGUE VIRUS INFECTION

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USE OF THE CLUSTER INVESTIGATION METHOD FOR THE EARLY DETECTION OF DENGUE CASES: PRELIMINARY FINDINGS

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UNDER-REPORTING OF DENGUE FEVER IN PUERTO RICO: RESULTS FROM ENHANCED DENGUE SURVEILLANCE PATILLAS, PUERTO RICO, JUNE 2005-JANUARY 2006

Mary M. Ramos[1], Mark Beatty[1], Aurimar Ayala[1], Luz Quiñones[1], David Withum[1], Jorge Muñoz[1], Iris Sosa[1], Gilberto Santiago[1], Enid J. García-Rivera[2]
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DENGUE HEMORRHAGIC FEVER BY DENGUE 3 INFECTION. A RETROSPECTIVE SEROEPIDEMIOLOGIC STUDY IN HAVANA CITY, 2003

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THE RELATIVE TIMING OF SEASONAL WEATHER PATTERNS AND DENGUE INCIDENCE ACROSS THE SOUTHEAST ASIAN REGION

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CLINICAL AND LABORATORIAL EVALUATION OF PATIENTS WITH SUSPECTED DENGUE-3 INFECTION IN RIBEIRÃO PRETO, SÃO PAULO, BRAZIL

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DENGUE INCIDENCE: A TWO YEAR CONTINUED PROSPECTIVE STUDY OF DENGUE VIRUS TRANSMISSION AND DISEASE IN PRIMARY SCHOOL CHILDREN

Ananda Nisalak[1], Robert V. Gibbons[1], Richard G. Jarman[1], Chusak Pimgate[1], Chonticha Krungthong[1], Butsaya Thaisomboonsuk[1], Mammen P. Mammen[1], Anon Srikiatkhachorn[2]
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GENOTYPING OF HONDURAN DENGUE ISOLATES BY RESTRICTION FRAGMENT LENGTH POLYMORFISM (RFLP)

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Flaviviridae – Other

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EPIDEMIOLOGICAL ANALYSIS OF JAPANESE ENCEPHALITIS IN THAILAND, 2000-2005

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DEVELOPMENT OF MURINE-HUMAN CHIMERIC ANTIBODIES FOR USE IN CALIBRATION OF SEROLOGIC TESTS FOR ARBOVIRUSES

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Flaviviridae – West Nile

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PHYLOGENETIC ANALYSIS OF AN AVIAN ISOLATE OF WEST NILE VIRUS, LAFAYETTE PARISH, LOUISIANA (2005)

Brian D. Byrd, Matt S. Fuller, Ken F. Swan, Dawn M. Wesson

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PREDICTING THE TRANSMISSION OF WEST NILE VIRUS

A. Marm Kilpatrick[1], Peter Daszak[1], Laura Kramer[2], Peter P. Marra[3], Andrew P. Dobson[4], Peter J. Hudson[5], Andre Dhondt[6], Matthew J. Jones[2], Ryan J. Peters[7], Michael Newhouse[8]

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A WEST NILE VIRUS SMALL PLAQUE VARIANT SELECTED FROM AN ISOLATE IN NEW YORK IN 2000 IS ATTENUATED *IN VIVO* AND *IN VITRO*

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PROTECTIVE IMMUNITY TO INTRATHECAL CHALLENGE OF WEST NILE VIRUS (WNV) IN A NATURALLY EXPOSED HORSE

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Helminths – Nematodes – Filariasis (Epidemiology)

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PERSISTENCE OF LYMPHATIC FILARIASIS FOLLOWING FIVE ROUNDS OF MASS DRUG ADMINISTRATION IN AN EGYPTIAN VILLAGE

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HELMINTH INBREEDING AND THE DETECTION AND SPREAD OF DRUG RESISTANCE

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IS IT POSSIBLE TO CONFIRM LACK OF LYMPHATIC FILARIASIS TRANSMISSION IN TOGO THROUGH NATIONAL LABORATORY SURVEILLANCE?

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COMPARING PCR AND MOSQUITO DISSECTION FOR MONITORING THE PROGRESS OF MASS DRUG ADMINISTRATION PROGRAMS FOR THE ELIMINATION OF LYMPHATIC FILARIASIS IN TANZANIA

Sandra J. Laney[1], Stephen Magesa[2], Erling M. Pedersen[3], Paul E. Simonsen[3], Deus Ishengoma[4], Theophil Rwegoshora[4], Lea T. Occhialini[1], Caitlin J. Buttaro[1], Steven A. Williams[1]

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EFFECT OF THREE YEARS OF ALBENDAZOLE AND IVERMECTIN TREATMENT ON *WUCHERERIA BANCROFTI* TRANSMISSION IN SIKASSO DISTRICT, MALI

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MONITORING OF *WUCHERERIA BANCROFTI* PARASITISM IN AN ENDEMIC SENTINEL SITE: A THREE TIME-SURVEY OF ADULT WORM INFECTION LEVEL IN HUMAN POPULATION AND LARVAE CIRCULATION THROUGH *AEDES POLYNESIENSIS* MOSQUITO-VECTOR

Catherine Plichart, Lam Nguyen, Yves Sechan, Jérome Marie, Jérome Viallon, Manuarii Manuel, Anne-Marie Legrand
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Helminths – Nematodes – Filariasis (Immunology)

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EFFECTS OF NITAZOXANIDE, TIZOXANIDE, AND NITAZOXANIDE WITH DIETHYLCARBAMAZINE ON THE FILARIAL NEMATODE *BRUGIA MALAYI IN VITRO*

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Helminths – Nematodes – Intestinal and Tissue Helminths

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ROLE OF GLICOCORTICOIDS IN THE INNATE AND ACQUIRED IMMUNE RESPONSE OF MICE INFECTED WITH *STRONGYLOIDES VENEZUELENSIS*

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VARIATION IN PREVALENCE OF PARASITES AS A FUNCTION OF ALTITUDE IN BOLIVIA

Laurent Brutus[1], Dominique Schneider[1], Victor Diaz[2], Jorge Postigo[1], Walter Delgado[2], Alejandra Salas[1], **Jean-Philippe Chippaux[1]**, Sergio Mollinedo[2]
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PREVALENCE AND INTENSITY OF GEOHELMINTH INFECTIONS IN SCHOOL-AGE CHILDREN FROM THE IZABAL REGION, GUATEMALA

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PECULIARITIES OF ANCYLOSTOMA CEYLANICUM L3 EXTRACTION

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HIV

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HEMOZOIN DIFFERENTIALLY AFFECTS HIV-1 VIRAL REPLICATION ACCORDING TO THE SEQUENCE OF EXPOSURE

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TOXICITY OF NUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITORS (NRTI) IN MICE

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VALIDATION OF A LOW-COST SYSTEM FOR CD4+ T LYMPHOCYTE ENUMERATION IN RURAL BURKINA FASO

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HIV/VL CO-INFECTION: AN INDIAN EXPERIENCE WITH SPECIAL FOCUS IN BIHAR

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EFFECTS OF PNEUMOCOCCAL CONJUGATE VACCINE (CV) FOLLOWED BY PNEUMOCOCCAL POLYSACCHARIDE VACCINE (PV) ON THE TYPE-SPECIFIC IGG LEVELS AMONG HIV-INFECTED ADULTS IN UGANDA

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IMPROVED DIAGNOSIS OF CRYPTOSPORIDIAL AND MICROSPORIDIAL INFECTIONS BY PCR IN PATIENTS WITH AIDS AND DIARRHEA IN HAITI

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Kinetoplastida – Diagnosis and Treatment

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ORAL MILTEFOSINE FOR CUTANEOUS LEISHMANIASIS IN THE DUTCH ELECTION SUPPORT FORCE IN NORTHERN AFGHANISTAN

Pieter P. van Thiel[1], Tjalling Leenstra[1], Peter J. de Vries[1], Michele van Vugt[1], Henry J. de Vries[2], Wendy F. van der Meide[3], Henk D. Schallig[3], Tom van Gool[4], Allard van der Sluis[5], William R. Faber[2], Piet A. Kager[1]

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PARASITOLOGICAL AND HISTOLOGICAL STUDIES IN SKIN FROM DOGS NATURALLY INFECTED WITH LEISHMANIA (L.) CHAGASI IN ILHA SOLTEIRA, SP, BRAZIL

Wilma A. Buzetti[1], Nina M. Queiroz[1], Rita C. Silveira[1], Maria F. Neves[1], Antonio C. Noronha[1], Rosangela Z. Machado[2], Tricia M. Oliveira[2]

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FIELD STUDY OF A NOVEL MULTIPLE ANTIGEN BINDING ASSAY (MABA) FOR THE DIAGNOSIS OF LATENT CHAGAS DISEASE IN AN ENDEMIC COUNTRY

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GEOGRAPHICALLY ROBUST LATERAL FLOW IMMUNOASSAY FOR DIAGNOSIS OF *T.CRUZI* INFECTION WITH HIGH CORRELATION TO RADIO-IMMUNOPRECIPITATION ASSAY (RIPA)

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(ACMCIP Abstract)

Kinetoplastida – Epidemiology

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PREVALENCE OF TRICHOMONIASIS IN IMO STATE, NIGERIA

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EPIDEMIOLOGICAL AND CLINICAL PATTERN OF CUTANEOUS LEISHMANIASIS FROM A REFERRAL HOSPITAL IN MALI

Pierre Traore[1], Carlos Paz[2], **Seydou Doumbia[3]**, Koureichi Tall[1], Ousmane Faye[1], Moumine Cisse[1], Sibiri Samake[3], Karim Coulibaly[1], Guimba Camara[1], Somita Keita[1]

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INCREASED VERTICAL TRANSMISSION OF A NORTH AMERICAN TYPE II ISOLATE OF *T. CRUZI* AS COMPARED TO THE TYPE I BRAZIL STRAIN

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Kinetoplastida – Molecular Biology and Immunology

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THE ROLE OF ACRIFLAVIN IN THE INHIBITION OF *TRYPANOSOMA MUSCULI* GROWTH AND DEVELOPMENT BY INDUCING APOPTOSIS WITH SPECIFIC BINDING AFFINITY TO KDNA OF THE PARASITE *IN VIVO*

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MEMORY CHARACTERISTICS OF PARASITE-SPECIFIC CD8+ T CELLS DURING CHRONIC AND DRUG-CURED EXPERIMENTAL *TRYPANOSOMA CRUZI* INFECTION

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(ACMCIP Abstract)

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NEUTROPHIL INFILTRATION IS ASSOCIATED WITH INITIAL PARASITE CONTROL BUT SUBSEQUENTLY CONTRIBUTES TO TISSUE DAMAGE IN HAMSTERS INFECTED WITH LEISHMANIA (VIANNIA) PANAMENSIS

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ADJUVANT EFFECT OF GARLIC EXTRACT WITH A DNA VACCINE AGAINST LEISHMANIA

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(ACMCIP Abstract)

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IDENTIFICATION OF NEW LEISHMANIA VACCINE CANDIDATES BY BIOINFORMATIC ANALYSIS OF LEISHMANIA MAJOR GENOME AND *IN VIVO* VALIDATION

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(ACMCIP Abstract)

Malaria – Biology and Pathogenesis

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RELATIONSHIP OF POLYMORPHISMS IN *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN AND *P. VIVAX* PARASITEMIA AND SUSCEPTIBILITY TO RE-INFECTIONS IN A PROSPECTIVE COHORT STUDY OF PAPUA NEW GUINEAN CHILDREN

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(ACMCIP Abstract)

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P. FALCIPARUM FCR3ΔVAR2CSA MUTANTS- A NOVEL TOOL TO EVALUATE PARASITE LIGANDS INVOLVED IN PLACENTAL MALARIA

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CHONDROITIN 4-SULFATE MEDIATED ADHERENCE OF *PLASMODIUM FALCIPARUM* IN PREGNANCY-ASSOCIATED MALARIA: DESIGN OF NOVEL PHOTOACTIVABLE REAGENTS FOR THE IDENTIFICATION OF PARASITE ADHESIVE PROTEINS

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MK2 AND P38 MAPKS DIFFERENTIALLY REGULATE THE IL-12 PRODUCTION IN MACROPHAGES STIMULATED WITH GLYCOSYLPHOSPHATIDYLINOSITOLS (GPIS) OF *PLASMODIUM FALCIPARUM* THROUGH DIFFERENT MECHANISMS

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SICKLE-CELL TRAIT (HBAS) IS ASSOCIATED WITH DECREASED DEPOSITION OF MALARIAL PIGMENT (HEMOZOIN) IN MONOCYTES OF CHILDREN WITH ACUTE *PLASMODIUM FALCIPARUM* MALARIA IN WESTERN KENYA

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EXTRACTION OF RETICULOCYTES FROM CORD BLOOD FOR USE IN THE CULTURING OF *PLASMODIUM VIVAX*

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ERYTHROCYTE GHOSTS AS A MODEL SYSTEM FOR STUDYING MALARIA INFECTION

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(ACMCIP Abstract)

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THE CLEARANCE OF LIVE *PLASMODIUM FALCIPARUM*-PARASITIZED RED BLOOD CELLS BY THE HUMAN SPLEEN

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SINGLE NUCLEOTIDE POLYMORPHISMS IN TRAP ASSOCIATE WITH SEVERE MALARIAL DISEASE: A NOVEL PARASITE VIRULENCE GENE

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SUPPRESSION OF IFNG T-CELL RESPONSE TO VACCINES BY MALARIA INFECTION

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(ACMCIP Abstract)

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CLONING AND CHARACTERIZATION OF *PLASMODIUM YOELII* MACROPHAGE MIGRATION INHIBITORY FACTOR

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THE CSF CYTOKINE PROFILE OF CHILDREN WITH CEREBRAL MALARIA IS UNIQUE AND UNRELATED TO SERUM CYTOKINE LEVELS

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(ACMCIP Abstract)

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PROTEOMIC INSIGHTS INTO THE MAKE-UP OF *P. VIVAX* AND *P. KNOWLESI* BLOOD STAGE PARASITES

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COMPARATIVE STUDIES OF CYTOKINE PROFILES IN MURINE ANEMIA CAUSED BY *PLASMODIUM YOELII* INFECTION, DRUG INDUCED HEMOLYSIS OR BY HEMORRHAGE

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ACTIVATION OF HUMAN BLOOD BRAIN BARRIER ENDOTHELIUM IN CEREBRAL MALARIA

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DETERMINATION OF THE NECESSITY AND ROLE OF *PLASMODIUM VIVAX* RELATED PROTEINS IN MEROZOITE INVASION

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Malaria – Chemotherapy

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TRENDS IN THE COMPLIANCE LEVELS TO ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* INFECTION IN ZAMBIA AFTER FULL-SCALE DEPLOYMENT

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CURING MALARIA-INFECTED RODENTS USING ARTEMISININ-DERIVED TRIOXANE DIMERS

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COSTS, EFFECTS AND COST-EFFECTIVENESS OF ARTEMETHER LUMEFANTRINE IN ZAMBIA

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DETECTION OF *PLASMODIUM*-INFECTED ERYTHROCYTES AND EVALUATION OF ANTIMALARIAL ACTIVITY IN MURINE MODELS OF MALARIA BY FLOW CYTOMETRY USING AUTOFLUORESCENCE AND YOYO-1

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IN VIVO ANTIMALARIAL EFFICACY AGAINST *P. YOELII* AND *P. FALCIPARUM* OF A 4(1H)-PYRIDONE CANDIDATE FOR CLINICAL DEVELOPMENT

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COMPARATIVE MULTI-DOSE PHARMACOKINETIC MODELLING AND DETERMINATION OF NON-RECRUDESCENCE LEVEL FOR *PLASMODIUM YOELII* INFECTION IN MOUSE OF ANTIMALARIAL 4(1H)-PYRIDONES

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COUNTERFEIT ANTI MALARIA DRUGS: THE DRAMA OF DIHYDROARTEMISININ (DHA)

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Malaria – Diagnosis

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DETECTION OF FOUR *PLASMODIUM* SPECIES BY GENUS- AND SPECIES-SPECIFIC LOOP-MEDIATED ISOTHERMAL AMPLIFICATION FOR CLINICAL MALARIA PATIENTS

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(ACMCIP Abstract)

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COMPARISON OF PERFORMANCE CHARACTERISTICS OF THE BINAX NOW® MALARIA TEST USING VENOUS AND FINGERSTICK SAMPLES

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DEVELOPMENT OF AN ALDOLASE CAPTURE ELISA FOR USE IN QUALITY CONTROL OF MALARIA RAPID DIAGNOSTIC TESTS AND MEASURING PARASITE GROWTH IN-VITRO

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Malaria – Drug Development

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María Roncalés, Mª Belén Jiménez-Díaz, Mª Jesús Almela, Pedro Torres, Sonia Lozano, Jaume Vidal, Paloma del Reino, Iñigo Angulo-Barturen, Domingo Gargallo-Viola, Esperanza Herreros

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BRINGING HEMOZOIN CRYSTALS AND SURFACES INTO THE LIGHT

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THE ANTIPARASITIC DIAMIDINE DB75 TARGETS THE *PLASMODIUM FALCIPARUM* NUCLEUS

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DEVELOPMENT OF *ANOPHELES DIRUS* SPOROZOITE-INDUCED MOUSE MALARIA MODEL

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REVERSED CHLOROQUINES: AN UPDATE ON MOLECULES DESIGNED TO SUBVERT CHLOROQUINE RESISTANCE IN *P. FALCIPARUM*

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SYNTHESES AND EVALUATIONS OF REVERSED CHLOROQUINES

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INVESTIGATIONS ON EMBRYO FETAL DEVELOPMENT IN RATS AND RABBITS WITH RBX11160 AND ITS SAFETY AS COMPARED TO ARTESUNATE

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FIXED DOSE ACT: PHARMACOKINETIC STUDY OF ARTESUNATE-SULFAMETHOXYPYRAZINE-PYRIMETHAMINE (CO-ARINATE FDC) IN A BLACK POPULATION IN IVORY COAST

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IS ARTESUNATE OR ITS ACTIVE METABOLITE DIHYDROARTEMISININ BEING EXCRETED IN THE MILK OF LACTATING MOTHERS?

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Malaria – Drug Resistance

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

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(ACMCIP Abstract)

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COMPREHENSIVE AND SYSTEMATIC APPROACH TO MONITORING ANTIMALARIAL DRUG RESISTANCE IN THE PERUVIAN AMAZON

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SIGNIFICANT ASSOCIATION BETWEEN THE PRESENCE OF THE BOLIVIA REPEAT INSERTION IN THE *DHFR* GENE OF *PLASMODIUM FALCIPARUM* AND *IN VIVO* RESISTANCE TO SULFADOXINE-PYRIMETHAMINE (SP) IN ISOLATES COLLECTED IN THE AMAZON REGION OF PERU

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CAMBODIAN'S RESPONSE TO HIGH RESISTANCE OF P.F TO ANTI-MALARIA DRUG

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GENOME-WIDE GENE EXPRESSION AND MECHANISM OF CHLOROQUINE RESISTANCE IN THE HUMAN MALARIA PARASITE *PLASMODIUM FALCIPARUM*

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PFMDR1 AND *FALCIPARUM* MALARIA RESISTANCE TO ARTEMISININ COMBINATION THERAPY IN CAMBODIA

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ISLAND-WIDE DIFFERENCES IN SINGLE NUCLEOTIDE POLYMORPHISMS IN THE *P. VIVAX* DIHYDROFOLATE REDUCTASE GENE *(PVDHFR)* IN SAMPLES FROM SRI LANKA

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Malaria – Epidemiology

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PREDICTORS OF MALARIA INCIDENCE IN A COHORT OF CHILDREN LIVING IN KAMPALA, UGANDA

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MALARIA AND HELMINTH CO-INFECTION IN A SEMI-URBAN POPULATION OF PREGNANT WOMEN IN UGANDA

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MALARIA IN TRAVELERS RETURNING TO OTTAWA FROM 1995-2004: A RETROSPECTIVE DESCRIPTIVE REVIEW

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DECREASING MALARIA MORTALITY IN VALLE DEL CAUCA, COLOMBIA

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USING HOUSEHOLD SURVEYS TO EVALUATE THE IMPACT OF GLOBAL FUND ACTIVITIES ON MALARIA PREVENTION PRACTICES IN VANUATU

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PARASITE CLEARANCE CURVES AND TIMES IN BLANTYRE, MALAWI: EFFECT ON PATIENT OUTCOME AND EVOLUTION OVER A NINETEEN YEAR TIME PERIOD

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THE BURDEN OF MALARIA IN PREGNANCY IN SOUTH AFRICA

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MALARIA INFECTION AND MORTALITY IN CHILDREN IN RURAL NORTHERN GHANA

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Malaria – Immunology

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INTERLEUKIN-23 AND INTERLEUKIN-12 CYTOKINE PATTERNS DURING MALARIAL ANEMIA IN YOUNG KENYAN CHILDREN NATURALLY EXPOSED TO FALCIPARUM MALARIA

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EVALUATION OF HOST HUMORAL ANTIBODY MECHANISMS AGAINST *PLASMODIUM FALCIPARUM* RECOMBINANT CIRCUMSPOROZOITE ANTIGEN IN NIGERIAN CHILDREN

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(ACMCIP Abstract)

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DIVERSITY OF TLR SNPS IN MALARIA ENDEMIC AREAS

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(ACMCIP Abstract)

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THE ROLE OF *BIR* GENES IN RODENT IMMUNITY TO *PLASMODIUM BERGHEI NK65*

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(ACMCIP Abstract)

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CYTOKINE-ASSOCIATED NECROBIOSIS AMONG PLASMODIUM FALCIPARUM INFECTED CHILDREN UNDER THE AGE OF SIX

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(ACMCIP Abstract)

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IFN-γ IS NECESSARY FOR THE SUPPRESSION OF *PLASMODIUM YOELII* 17XL MALARIA IN MEROZOITE SURFACE PROTEIN-8 IMMUNIZED BALB/C MICE

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REVISITING THE INTERACTION OF DENDRITIC CELLS WITH MALARIA BLOOD STAGE PARASITES

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MALARIA EXACERBATES MYCOBACTERIAL INFECTION *IN VITRO* AND *IN VIVO*

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(ACMCIP Abstract)

Malaria – Molecular Biology

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NEW *PLASMODIUM VIVAX* GENOTYPES IN THE NORTH COAST OF PERU

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INVESTIGATING THE FUNCTION OF MAEBL IN THE INVASION OF SALIVARY GLANDS

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(ACMCIP Abstract)

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EXPRESSION OF THE 19-KDA C-TERMINAL PORTION OF *PLASMODIUM FALCIPARUM* MSP1 WITH AND WITHOUT GPI ANCHOR SIGNAL SEQUENCE IN MAMMALIAN CELLS AND EVALUATION OF THEIR IMMUNOGENICITY

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(ACMCIP Abstract)

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REGULATION OF GENE EXPRESSION IN THE MALARIA PARASITE *PLASMODIUM FALCIPARUM* BY THE HISTONE ACETYLTRANSFERASE PFGCN5

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THE *PLASMODIUM* SES PROTEIN EXHIBITS A SPIRAL LABELING PATTERN ON THE SPOROZOITE SURFACE AND APPEARS TO PLAY A ROLE IN MOSQUITO SALIVARY GLAND INVASION

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Malaria – Vaccines

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CONTROL OF COCCIDIOSIS IN POULTRY WITH LIVE VACCINES AS A MODEL FOR THE CONTROL OF MALARIA

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(ACMCIP Abstract)

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VALIDATION OF ASSAYS RELEVANT TO IMMUNOGENICITY ASSESSMENT OF CSP-DNA VACCINE IN GHANA

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(ACMCIP Abstract)

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MOUSE POTENCY ASSAYS FOR MEASURING RECOMBINANT PROTEIN VACCINE STABILITY

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USE OF ADENOVECTOR ARRAYS FOR HIGH THROUGHPUT SCREENING OF NOVEL MALARIA ANTIGENS FROM GENOMIC SEQUENCE DATA

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PILOT-SCALE PRODUCTION OF THE *PLASMODIUM VIVAX* TRANSMISSION BLOCKING VACCINE CANDIDATE PVS28

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Malaria — Vector Biology and Malaria Transmission

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RE-INGESTION OF *PLASMODIUM BERGHEI* SPOROZOITES AFTER DELIVERY INTO THE HOST BY MOSQUITOES

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DIVERSE *WOLBACHIA* STRAINS CAN INFECT *ANOPHELES GAMBIAE* CELLS

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(ACMCIP Abstract)

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ENVIRONMENTAL MANAGEMENT FOR MOSQUITO CONTROL IN SOME SELECTED STATES IN THE UNITED STATES WITH RECOMMENDATIONS FOR NIGERIA

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Mosquitoes — Biochemistry and Molecular Biology

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FIRST REPORT OF TRANSGENIC MOSQUITOES IN LATIN AMERICA

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A COMPARATIVE ANALYSIS OF *ANOPHELES STEPHENSI* AND *A. GAMBIAE* THROUGH BAC SEQUENCING AND PYROSEQUENCING

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SEQUENCE ANALYSIS OF THE DOMAIN II SODIUM CHANNEL IN *ANOPHELES FUNESTUS*

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MOLECULAR BASIS OF THE ESSENTIAL AMINO ACID ABSORPTION IN VECTOR MOSQUITOES

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Mosquitoes – Molecular Genetics

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OBSERVATIONS OF *ANOPHELES GAMBIAE* WITH MIXED RDNA ARRAYS CONTAINING BOTH MOPTI AND SAVANNA TYPES

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EVOLUTION OF *HERVES* TRANSPOSABLE ELEMENT IN *ANOPHELES GAMBIAE* IN AFRICA

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PATTERN OF GENOME REARRANGEMENTS IN MALARIA MOSQUITOES

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MACROGEOGRAPHIC PATTERNS OF CHROMOSOMAL POLYMORPHISM IN THE MOLECULAR FORMS OF *ANOPHELES GAMBIAE* IN RELATION TO ENVIRONMENTAL HETEROGENEITIES IN CAMEROON

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PHYLOGEOGRAPHY OF THE SOUTHEAST ASIAN SUNDAICUS COMPLEX INFERRED BY DIFFERENTIAL EVOLUTION MARKERS

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CHROMOSOMAL AND MOLECULAR GENETICS OF *ANOPHELES GAMBIAE* COMPLEX IN MALI

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CROSS-GENOME COMPARISON OF CELL DEATH REGULATION IN MOSQUITOES

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(ACMCIP Abstract)

Mosquitoes – Vector Biology

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CHARACTERIZING THE ROLE OF *AEDES AEGYPTI* EARLY AND ABUNDANT TRYPSINS IN DENGUE VIRUS INFECTIVITY OF THE MOSQUITO MIDGUT

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IMPROVED MEASUREMENT OF THE DISTRIBUTION FORMS OF *ANOPHELES GAMBIE SENSU STRICTO* FORMS AND THEIR RELATION TO THE ENVIRONMENT

Saul Lozano-Fuentes[1], Sigrid K. Rian[1], Yoosook Lee[1], Mahamoudou B. Touré[2], Gregory Lanzaro[3], Anthony J. Cornel[3], Seydou Doumbia[2], Yongkang Xue[1], Sekou F. Traoré[2], Charles E. Taylor[1]

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QTL ANALYSIS OF THE GENETIC BASIS FOR AUTOGENY IN *AEDES ALBOPICTUS*

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IDENTIFYING *ANOPHELES GAMBIAE* GENES THAT AFFECT PLASMODIUM OOCYST DEVELOPMENT

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CHARACTERIZATION RNAI-BASED EFFECTORS SEQUENCES THAT TARGET DENGUE VIRUSES IN *AEDES AEGYPTI*

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FIELD-READY METHOD FOR DETECTING RUBIDIUM-MARKED ANOPHELENE MOSQUITOES

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POPULATION STRUCTURE OF THE *CULEX PIPIENS* VECTORS OF WEST NILE VIRUS IN EASTERN NORTH AMERICA

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DAILY TEMPERATURE PROFILES IN AND AROUND WESTERN KENYAN LARVAL HABITATS OF *ANOPHELES GAMBIAE* AS RELATED TO EGG MORTALITY

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AN EXTRACELLULAR METALLOPROTEASE EXPRESSION IN *AEDES AEGYPTI*: ROLE IN BLOOD DIGESTION, MIDGUT MATRIX REMODELING, EGG HATCHING, AND IMMUNITY

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ENTOMOLOGIC AND SMALL MAMMAL STUDIES FOLLOWING A LA CROSSE ENCEPHALITIS OUTBREAK IN TRANSYLVANIA COUNTY, NC 2005

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MALE SPERM CAPACITY AND MATING BIOLOGY OF THE DENGUE VECTOR, *AE. AEGYPTI*

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GROWTH AND DEVELOPMENT OF *ANOPHELES GAMBIAE* IN MOVING WATER

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HOST CHOICE IN MOSQUITOES COLLECTED IN A PERI-URBAN AREA OF WESTERN TENNESSEE, 2002-2003

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CHARACTERIZATION OF *ANOPHELES GAMBIAE* HABITATS IN MALI AND CAMEROON

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CO-OCCURRENCE OF "EAST" AND "WEST" AFRICAN *KDR* MUTATIONS IN *ANOPHELES GAMBIAE* S-FORM (DIPTERA: CULICIDAE) IN WEST AFRICA

Federica Santolamazza[1], Maria Calzetta[1], Giancarlo Carrara[1], Ibrahima Dia[2], Marta Moreno[3], Filomeno Fortes[4], Adalgisa Caccone[5], Vincenzo Petrarca[6], Martin J. Donnelly[7], Joao Pinto[8], Alessandra della Torre[1]

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DEVELOPING A LOW COST REPELLENT TO REDUCE MALARIA IN THE AMERICAS — RESULTS OF TWO FIELD TRIALS IN GUATEMALA AND PERU

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SPATIO-TEMPORAL VARIATIONS IN THE DISTRIBUTION OF ANOPHELINE LARVAL HABITATS IN WESTERN KENYA HIGHLANDS

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Mosquitoes – Vector Biology-Epidemiology

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HOST MORTALITY AS AN EPIDEMIOLOGIC MECHANISM OF THE NEW WORLD SUCCESS OF WEST NILE VIRUS

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WEST NILE VIRUS INFECTION IN MOSQUITOES IN THE MID-SOUTH USA, 2002-2005

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PRELIMINARY MICROARRAY ANALYSIS FOR THE IDENTIFICATION OF DENGUE-REFRACTORINESS CANDIDATE GENES IN MOSQUITO VECTORS

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A GEOGRAPHICAL SAMPLING STRATEGY FOR FIELD SURVEYS IN AN URBAN AREA USING HIGH-RESOLUTION SATELLITE IMAGERY

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SPATIAL ANALYSIS OF SPILL-OVER EFFECTS OF INSECTICIDE-TREATED MATERIALS IN A CLUSTER-RANDOMIZED TRIAL AGAINST *AEDES AEGYPTI* MOSQUITOES IN TRUJILLO, VENEZEULA

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THE IMPACT OF ENVIRONMENTAL CHARACTERISTICS AND ENGINEERED SYSTEMS ON ANOPHELINE LARVAL-PREVALENT WATER BODIES IN THE URBAN COMMUNITY OF MALINDI, KENYA

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ORIGIN OF BLOOD MEALS IN INDOOR RESTING MALARIA VECTORS IN A RICE IRRIGATION SCHEME IN EASTERN KENYA

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BRANCHING PROCESS MODEL FOR THE EARLY STAGES OF A TRANSPOSON INVASION IN A DIPLOID POPULATION

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Protozoa – Ameba/Giardia

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TREATMENT OF NEOSPORA CANINUM AND GIARDIA INTESTINALIS WITH NITAZOXANIDE AND OTHER THIAZOLIDES INTERFERES IN FUNCTIONAL ACTIVITIY OF PROTEIN DISULFIDE ISOMERASE

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AN IN-VITRO THREE DIMENSIONAL CULTURE MODEL OF *ENTAMOEBA HISTOLYTICA*

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EXTRACELLULAR LIPOPROTEIN INFLUENCES VIRULENCE FUNCTIONS IN *ENTAMOEBA HISTOLYTICA*

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DNA METHYLATION HAS LIMITED EFFECT ON GENE EXPRESSION IN *Entamoeba histolytica*

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EVALUATION OF THE TECHLAB'S *E. HISTOLYTICA* ANTIGEN AND ANTIBODY POINT-OF-CARE TESTS FOR THE RAPID DIAGNOSIS OF AMEBIASIS

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Protozoa – Opportunistic Protozoa

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FIRST RECORD OF HUMAN *CRYPTOSPORIDIUM FELIS* INFECTION IN TWO HIV-POSITIVE PATIENTS IN HAITI

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DIRECT TRANSMISSION OF *CRYPTOSPORIDIUM CANIS* BETWEEN CHILDREN AND A DOG

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MOLECULAR EPIDEMIOLOGY OF CRYPTOSPORIDIOSIS IN CHILDREN IN KENYA

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IN VITRO, MODULATION OF INTERFERON-G RESPONSE BY INDUCING SODIUM ANTIMONY GLUCONATE RESPONDER ISOLATE IN T-CELLS OF NON-RESPONDER VISCERAL LEISHMANIASIS

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(ACMCIP Abstract)

Trematodes – Schistosomiasis

627

AMPLIFICATION OF REPEATED SEQUENCES BY PCR FOR DIFFERENTIATION OF *SCHISTOSOMA HAEMATOBIUM* FROM RELATED SCHISTOSOMES

Ibrahim Abbasi[1], Charles H. King[2], Robert F. Sturrock[3], Eric Muchiri[4], Curtis Kariuki[5], **Joseph Hamburger[6]**

[1]Hebrew University, Jerusalem, Israel, [2]Case Western Reserve University, Cleveland, OH, United States, [3]Formerly, London School of Hygiene and Tropical Medicine, London, United Kingdom, [4]Division of Vector Borne Diseases Ministry of Health, Nairobi, Kenya, [5]Division of Vector Borne Diseases, Ministry of Health, Nairobi, Kenya, [6]Hebrew University of Jerusalem, Jerusalem, Israel

628

CHARACTERIZATION OF SNAIL IMMUNE GENES THAT ENCODE PEPTIDOGLYCAN RECOGNITION PROTEINS AND GRAM-NEGATIVE BACTERIA BINDING PROTEIN, THE KEY HOMOLOGOUS MOLECULES CONTROLLING THE UPSTREAM TOLL/IMD SIGNALLING PATHWAYS

Si-Ming Zhang, Reza A. Imani, Yong Zeng, Eric S. Loker

University of New Mexico, Albuquerque, NM, United States

(ACMCIP Abstract)

629

TRAIT-MEDIATED BIOLOGICAL CONTROL OF SCHISTOSOMIASIS BY A FACULTATIVE MOLLUSCIVORE

Brian F. Allan[1], Lauren J. Chapman[2]

[1]Washington University, Saint Louis, MO, United States, [2]McGill University, Montreal, QC, Canada

630

SHISTOSOMIASIS CONTROL IN CAMBODIA

Sinuon Muth

National Malaria Centre, Phnom Penh, Cambodia

631

FACTORS INFLUENCING ONE-YEAR RISK OF *SCHISTOSOMA JAPONICUM* INFECTION IN HUMANS AFTER TREATMENT, SAMAR PROVINCE, THE PHILIPPINES

Mushfiqur R. Tarafder[1], Hélène Carabin[1], Portia Alday[2], Ernesto Balolong[2], Lawrence Joseph[3], Patrick Bélisle[4], Veronica Tallo[2], Ryan O. Gonzales[2], Remigio Olveda[2], Stephen T. McGarvey[5]

[1]College of Public Health, University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, [2]Research Institute for Tropical Medicine, Muntinlupa City, Philippines, [3]McGill University, Montréal, QC, Canada, [4]McGill University Health Center, Montréal, QC, Canada, [5]International Health Institute, Brown University, Providence, RI, United States

632

AGREEMENT ANALYSIS OF STOOL EXAMINATION USING KATO-KATZ THICK SMEAR METHOD IN DIFFERENT SCHISTOSOMIASIS JAPONICA ENDEMIC AREAS IN CHINA

YuanYuan Zhang[1], JianPing Luo[2], YueMin Liu[3], QiZhi Wang[4], JunHu Chen[5], MingXing Xu[6], JinMei Xu[1], MeiHong Zhou[2], HaiWei Wu[1]

[1]Department of Parasitology, Nanjing Medical University, Nanjing, China, [2]Department of Mathematics and Computer Science, Nanjing Medical University, Nanjing, China, [3]Jiangxi Provincial Institute of Parasitic Diseases, Nanchang, China, [4]Anhui Institute of Schistosomiasis Control, Wuhu, China, [5]Zhejiang Provincial Institute of Parasitic Diseases, Hangzhou, China, [6]Wuhan Center for Disease Control and Prevention, Wuhan, China

Viruses – Other

633

ACTIVE SURVEILLANCE FOR AVIAN INFLUENZA IN MIGRATORY BIRDS IN THE FLYWAYS FROM CHINA TO AFRICA

Michael Parker, Samuel Yingst, Samson Limbaso, Samuel Muchai, Ivan Rusev, Loay Ahmed, Magdi Darwish, Kaiuki Njenga, Emad Maher, Diaa Elyan, Rob Breiman, Ken Earhart, Marshall Monteville

NAMRU3, Cairo, Egypt

634

PHYLOGENETIC ANALYSIS OF PERUVIAN ENCEPHALOMYOCARDITIS VIRUS

Vidal Felices

U.S. Naval Medical Research Center Detachment, Lima, Peru

635

MODIFIED SHELL VIAL CULTURE PROCEDURE FOR ARBOVIRUSES

Edna R. Caceda

U.S. Naval Medical Research Center Detachment, Lima, Peru

636

COMPARATIVE ANALYSIS OF BRAZILIAN *VACCINIA VIRUS* STRAINS

Giliane Trindade[1], Ginny Emerson[1], Mike Frace[1], Scott Sammons[1], Melissa Olsen-Rasmussen[1], Kevin Karen[1], Darin Carroll[1], Yu Li[1], Russell Regnery[1], Erna Kroon[2], Inger Damon[1]

[1]National Center for Infectious Diseases/Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Instituto de Ciências Biológicas/Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil

637

IMPACT OF SELECTIVE LYMPHOID DEFICIENCIES ON ENCEPHALITIS AND VIRUS PERSISTENCE IN THE MURINE BRAIN (VEEV)

Slobodan Paessler, Nadezhda Yun, Haolin Ni, Barbara Judy, Natallia Natallia Dziuba, Michele A. Zacks, Ilya Frolov, Scott C. Weaver, Gerald A. Campbell, Mark Don

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

638

RECOMBINANT ALPHAVIRUSES ARE SAFE AND USEFUL SEROLOGICAL DIAGNOSTIC TOOLS

Haolin Ni[1], Yun E. Yun[1], Michele A. Zacks[1], Scott C. Weaver[1], Robert B. Tesh[1], Amelia P. Travassos da Rosa[1], Ann M. Powers[2], Ilya Frolov[1], **Slobodan Paessler[1]**

[1]University of Texas Medical Branch, Galveston, TX, United States, [2]2Division of Vector-Borne Infectious Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States

639

PEPTIDE-CONJUGATED PHOSPHORODIAMIDATE MORPHOLINO OLIGOMERS INHIBIT ALPHAVIRUS REPLICATION AND PREVENT LETHAL ENCEPHALITIS IN VEEV-INFECTED MICE

Slobodan Paessler[1], Haolin Ni[1], Nadezhda E. Yun[1], David Stein[2], Cornelius Rijnbrand[1]

[1]University of Texas Medical Branch, Galveston, TX, United States, [2]AVI Biopharma, Inc., Corvallis, OR, United States

640

ALPHAVIRUS-BASED VACCINES AGAINST RIFT VALLEY HEMORRHAGIC FEVER VIRUS

Slobodan Paessler, Rodion Gorchakov, Nadezhda E. Yun, Nathaniel Linde, Ilya Frolov

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

641

RELATIONSHIP OF A NEW GROUP OF SOUTH AMERICAN PHLEBOVIRUSES TO RIFT VALLEY FEVER VIRUS: A PHYLOGENETIC STUDY

Fangling Xu, Dongying Liu, Amelia Travassos da Rosa A.P., Robert B. Tesh, Shu-Yuan Xiao

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

642

ESTIMATING THE POSSIBLE IMPACT OF INFLUENZA PANDEMIC ON HEALTHCARE DEMAND AND CAPABILITY IN PERU

César V. Munayco, Luis Suarez-Ognio, Jorge Gómez-Benavides

General Direction of Epidemiology, Lima, Peru

643

PRODUCTION OF LA CROSSE VIRUS-LIKE PARTICLES

Mark T. Hughes, Carol D. Blair, Barry J. Beaty

Colorado State University, Fort Collins, CO, United States

644

EVIDENCE OF A NEW GENOTYPE OF OROPOUCHE VIRUS (OROV) IN ARGENTINA, 2005

Cintia Marcela Fabbri[1], **María A. Morales[2]**, Pablo Baroni[1], Silvana Levis[1], Sueli Rodriguez[3], Livia Martins[3], Marcio Nunes[3], Josefina Ramirez[4], Adolfo Martinez[4], Bernardo Fasendini[4], Cristina Ubeid[4], Carlos Ripoll[4], Pedro Vasconcelos[3], Delia Enría[1]

[1]Instituto Nacional de Enfermedades Virales Humanas "Dr. Julio I. Maiztegui", Pergamino, Buenos Aires, Argentina, [2]Instituto Nacional de Enfermedades Virales Humanas, Pergamino/Pcia de Bs. As, Argentina, [3]Seção de Arbovirologia e Febres Hemorrágicas, Instituto Evandro Chagas, Ministério da Saúde, Belém, Para, Brazil, [4]Ministerio de Salud de la Provincia de Jujuy, San Salvador de Jujuy, Argentina

645

EVIDENCE FOR SEGMENT REASSORTMENT IN LA CROSSE VIRUS FIELD ISOLATES FROM WISCONSIN AND MINNESOTA

Sara M. Reese[1], William C. Black[1], Bradley Blitvich[2], Carol Blair[1], Barry J. Beaty[1]

[1]Colorado State University, Fort Collins, CO, United States, [2]Iowa State University, Ames, IA, United States

ACMCIP Abstracts — Molecular, Cellular and Immunoparasitology

409, 413, 450, 453, 456, 458, 483, 491, 500, 505, 507, 508, 509, 515, 518, 520, 532, 544, 561, 562, 563, 564, 565, 567, 569, 570, 571, 573, 574, 577, 580, 592, 624, 626, 628

Mid-Day Session 61B

Population-Based Surveillance for Emerging Infectious Diseases in Kenya — A Platform for Defining Public Health Priorities and Assessing Interventions

Bonn/London

Tuesday, November 14 12:15 p.m. – 1:15 p.m.

CHAIR

Robert Breiman

Centers for Disease Control and Prevention - Kenya, Nairobi, Kenya

SPEAKERS

Robert Breiman

Centers for Disease Control and Prevention - Kenya, Nairobi, Kenya

Daniel Feikin

Centers for Disease Control and Prevention - Kenya, Nairobi, Kenya

Meet the Professors 62

Meet the Professors C: Enigmatic and Teaching Cases

International 5/6

Tuesday, November 14 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.

SERIES ORGANIZER

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

PANELISTS

David O. Freedman

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

Jamie Maguire

University of Maryland, Baltimore, MD, United States

Mid-Day Session 63

Electronic Submission and Peer Review of Research Applications at the National Institutes of Health

Copenhagen/Stockholm/Amsterdam

Tuesday, November 14 12:15 p.m. – 1:15 p.m.

The symposium will address issues relevant to preparation and submission of competitive investigator-initiated National Institutes of Health research applications. The contents will be useful to investigators at every level of seniority. The National Institutes of Health is in the process of converting to electronic submission of research applications through Grants.gov. This process is being gradually phased in by grant mechanism and involves the use of a new application form. The SF424 form and the electronic submission process will be explained, and general advice will be provided to new investigators preparing to apply to the National Institutes of Health.

CHAIR

John C. Pugh

National Institutes of Health Center for Scientific Review, Bethesda, MD, United States

Adriana Costero

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

12:15 p.m.

ELECTRONIC SUBMISSION AND PEER REVIEW OF RESEARCH APPLICATIONS AT THE NATIONAL INSTITUTES OF HEALTH-PART 1

John C. Pugh

National Institutes of Health Center for Scientific Review, Bethesda, MD, United States

12:45 p.m.

ELECTRONIC SUBMISSION AND PEER REVIEW OF RESEARCH APPLICATIONS AT THE NATIONAL INSTITUTES OF HEALTH-PART 2

Adriana Costero

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

Mid-Day Session 64

Tafenoquine: Where Are We?

Supported with funding from GlaxoSmithKline

Marquis 3

Tuesday, November 14 12:15 p.m. – 1:15 p.m.

Tafenoquine has been initially co-developed as a chemoprophylactic agent against all forms of malaria by the U.S. Army and GlaxoSmithKline. However, the Product Development Team has decided to focus the development of tafenoquine on the radical cure of *P.vivax* malaria. This session will present the rationale behind this decision and will update on the progress of the development.

SESSION ORGANIZER
Peter G. Borrett
Hera.Com, Richmond, United Kingdom

CHAIR
Colin Ohrt
Walter Reed Army Institute of Research, Washington, DC, United States

12:15 p.m.
TAFENOQUINE: WHERE ARE WE?
Colin Ohrt
Walter Reed Army Institute of Research, Washington, DC, United States

12:45 p.m.
GROUP DISCUSSION

Mid-Day Session 64A

Progress on Development and Testing of a Radiation Attenuated *Plasmodium falciparum* Vaccine

Marquis 4

Tuesday, November 14 12:15 p.m. – 1:15 p.m.

CHAIR
Stephen L. Hoffman
Sanaria Inc., Rockville, MD, United States

12:15 p.m.
OVERVIEW AND PLANS FOR CLINICAL TRIALS
Stephen L. Hoffman
Sanaria Inc., Rockville, MD, United States

12:30 p.m.
DEVELOPMENT OF THE MANUFACTURING PROCESS
Kim Lee Sim
Sanaria Inc., Rockville, MD, United States

12:45 p.m.
IN-PROCESS TESTING AND DOCUMENTATION
Peter Billingsley
Sanaria Inc., Rockville, MD, United States

1 p.m.
RELEASE ASSAYS
Rana Chattopadhyay
Sanaria Inc., Rockville, MD, United States

Mid-Day Session 65

Workers in Tropical Medicine Video: Karl M. Johnson, MD: Life and Legend of a Leader in Tropical Virology

International 4

Tuesday, November 14 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.

INTRODUCTION
Thomas P. Monath
Pandemic and Biodefense Fund, Kleiner Perkins Caufield & Byers, Harvard, MA, United States

DIRECTOR AND PRODUCER
Patrick Dunavan
HealthQuest Media Inc., Los Angeles, CA, United States

Poster Session B Viewing

International and Skyline Levels

Tuesday, November 14 1:30 p.m. – 7 p.m.

Symposium 66

Transposons and Wolbachia as Vehicles for Vector Population Replacement Strategies: Natural Examples and Progress Toward Developing Artificial Drivers

International 5/6

Tuesday, November 14 1:30 p.m. – 3:15 p.m.

Population replacement strategies for controlling transmission of mosquito-borne diseases call for the introgression of anti-pathogen effector genes into vector populations. It is anticipated that these genes, if present at high enough frequencies, will impede transmission of the target pathogens and result in reduced human morbidity and mortality. Recent laboratory successes in development of virus- and protozoan-resistant mosquito strains emphasize the urgent need for research into gene drive systems capable of moving effector genes into wild populations. This symposium will emphasize two examples: transposable elements and intracellular Wolbachia bacteria. For each, we will explore the science of naturally occurring examples that provide evidence for non-Mendelian gene flow, followed by a description of applied research directed at developing each into a synthetic gene drive system for affecting medically important vector populations.

CHAIR

Stephen L. Dobson
University of Kentucky, Lexington, KY, United States

Anthony A. James
University of California at Irvine, Irvine, CA, United States

1:30 p.m.

WELCOME AND INTRODUCTORY COMMENTS

Stephen L. Dobson
University of Kentucky, Lexington, KY, United States

1:35 p.m.

ENDOGENOUS TRANSPOSABLE ELEMENTS IN MOSQUITOES: FROM GENOME TO POPULATION

Zhijian Jake Tu
Virginia Tech, Blacksburg, VA, United States

2 p.m.

ADAPTING NATURAL GENE DRIVE MECHANISMS TO TRANSLATIONAL TOOLS FOR INTROGRESSING EXOGENOUS GENES INTO TARGET VECTORS: TRANSPOSABLE ELEMENTS

Anthony A. James
University of California at Irvine, Irvine, CA, United States

2:25 p.m.

DYNAMICS OF NATURAL WOLBACHIA INFECTIONS IN DISEASE VECTORS

Steven Sinkins
University of Oxford, Oxford, United Kingdom

2:50 p.m.

ADAPTING NATURAL GENE DRIVE MECHANISMS TO TRANSLATIONAL TOOLS FOR INTROGRESSING EXOGENOUS GENES INTO TARGET VECTORS: WOLBACHIA

Stephen L. Dobson
University of Kentucky, Lexington, KY, United States

Scientific Session 67

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) – Cellular Parasitology I

Supported with funding from the Burroughs Wellcome Fund

Copenhagen/Stockholm/Amsterdam

Tuesday, November 14 1:30 p.m. – 3:15 p.m.

CHAIR

Peter C. Melby
University of Texas Health Science Center, San Antonio, TX, United States

Esmeralda Vargas
Emory University, Atlanta, GA, United States

1:30 p.m.

1113

POLYMORPHIC SECRETED KINASES ARE KEY VIRULENCE FACTORS IN TOXOPLASMOSIS

Jon P. Boyle, Jeroen P.J. Saeij, Susan P. Coller, John C. Boothroyd
Stanford University, Stanford, CA, United States

1:45 p.m.

646

MOLECULAR DETERMINANTS FOR RECEPTOR SPECIFICITY OF *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN

Amy M. McHenry, John H. Adams
University of Notre Dame, Notre Dame, IN, United States

2 p.m.

647

PROTEIN TRAFFICKING TO THE *P. FALCIPARUM* DIGESTIVE VACUOLE

Pedro A. Moura[1], Omar S. Harb[2], ZhongQiang Chen[2], Louis J. Nkrumah[1], David S. Roos[2], David A. Fidock[1]
[1]Albert Einstein College of Medicine, Bronx, NY, United States, [2]University of Pennsylvania, Philadelphia, PA, United States

2:15 p.m.

648

CLONING OF A CDNA ENCODING A *PLASMODIUM YOELII* INTEGRAL MEMBRANE PROTEIN LOCATED IN THE PARASITOPHOROUS VACUOLE MEMBRANE

Tobili Y. Sam-Yellowe[1], Jing Tao[1], Tongmin Wang[1], Judith A. Drazba[2], Hisashi Fujioka[3]

[1]Cleveland State University, Cleveland, OH, United States, [2]The Cleveland Clinic Foundation, Lerner Research Institute, Cleveland, OH, United States, [3]Case Western Reserve University, Institute of Pathology, Cleveland, OH, United States

2:30 p.m.

649

RELEASE OF THE INTERNAL SUBPOPULATION OF MAJOR SURFACE PROTEASE (MSP) OF *LEISHMANIA CHAGASI* UPON STIMULATION BY MATRIGEL™ MATRIX

Chaoqun Yao[1], John E. Donelson[2], Mary E. Wilson[1]

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

2:45 p.m.

650

ARGININE METABOLISM IN MACROPHAGES DETERMINES THE OUTCOME IN EXPERIMENTAL VISCERAL LEISHMANIASIS

Yaneth Osorio[1], Weiguo Zhao[1], Bruno L. Travi[1], Leo Hawel[2], Omar A. Saldarriaga[1], Claudia Espitia[1], **Peter C. Melby[1]**

[1]South Texas Veterans Health Care System and University of Texas Health Science Center at San Antonio, San Antonio, TX, United States, [2]University of California-Riverside, Riverside, CA, United States

3 p.m.

651

CHARACTERIZATION OF *SCHISTOSOMA MANSONI* CONSTITUTIVE ANDROSTANE RECEPTOR

Rong Hu[1], Edward G. Niles[1], **Philip T. LoVerde[2]**

[1]State University of New York, Buffalo, NY, United States, [2]Southwest Foundation for Biomedical Research, San Antonio, TX, United States

Symposium 68

Immune Responses in Protection Against Malaria: Seven Years of MIM/TDR Research

Marquis 3

Tuesday, November 14 1:30 p.m. – 3:15 p.m.

This symposium is designed to highlight the value of multidisciplinary research partnerships in addressing endemic and emerging communicable disease in sub Saharan Africa. Research involving various aspects of malaria immunology will be presented as examples. Beginning in 1998, the Multilateral Initiative on Malaria (MIM) through WHO/TDR facilitated the generation of knowledge on the pathology and etiology of malaria through effective research partnerships between scientists from developed countries and their African counterparts. These partnerships have resulted in new knowledge on the role of host immunity in malarial anemia, response to chemotherapy and propagation of the erythrocytic stages of *P. falciparum*. The symposium will present research carried out by these groups and application of the results to vaccine development, management of malaria anemia and drug resistant malaria in Africa. The role of multidisciplinary partnerships in the success of the work will be discussed by the speakers.

CHAIR

Olumide A.T. Ogundahunsi
World Health Organization, Geneva, Switzerland

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

1:30 p.m.

MALARIA IMMUNITY, TREATMENT FAILURE AND THE CLEARANCE OF DRUG RESISTANT PARASITES IN SUB-SAHARAN AFRICA

Abdoulaye A. Djimde
University of Bamako, Mali, Bamako, Mali

1:55 p.m.

ERYTHROCYTE INVASION BY MEROZOITES: A TARGET FOR INTERVENTION IN MALARIA

Anthony A. Holder
National Institute for Medical Research, MRC UK, London, United Kingdom

2:20 p.m.

NATURAL IMMUNE RESPONSE TO MSP1 AND INHIBITION OF ERYTHROCYTE INVASION

Roseangela Ifeyinwa Nwuba
University of Ibadan, Ibadan, Nigeria

2:45 p.m.

IMMUNITY AND IMMUNOPATHOLOGY OF SEVERE MALARIA IN AFRICAN CHILDREN

Batholomew D. Akanmori
Noguchi Memorial Insitute for Medical Research, Legon, Accra, Ghana

Scientific Session 69

Malaria — Drugs: Mechanisms, Localization, Mutations and Novel Target Evaluation

Marquis 4

Tuesday, November 14 1:30 p.m. – 3:15 p.m.

CHAIR

Jonathan J. Juliano

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

Pharath Lim

Institut Pasteur du Cambodge, Phnom Penh, Cambodia

1:30 p.m.

652

ARTEMISININ DERIVATIVES LOCALIZE WITHIN DIGESTIVE VACUOLE-ASSOCIATED NEUTRAL LIPID BODIES IN *PLASMODIUM FALCIPARUM*

Carmony L. Hartwig[1], Andrew S. Rosenthal[2], Gary H. Posner[2], Roland A. Cooper[1]

[1]Old Dominion University, Norfolk, VA, United States, [2]Department of Chemistry and Malaria Research Institute, Johns Hopkins University, Baltimore, MD, United States

1:45 p.m.

653

INHIBITION OF YEAST HEXOKINASE ACTIVITY BY ARTEMISININ: AN *IN VITRO* MODEL OF DRUG-PROTEIN BINDING

Jennifer S. Spence[1], Jigar Patel[2], Michael T. Ferdig[2], Roland A. Cooper[3]

[1]Old Dominion University, Suffolk, VA, United States, [2]University of Notre Dame, South Bend, IN, United States, [3]Old Dominion University, Norfolk, VA, United States

2 p.m.

654

A MOLECULAR METHOD FOR DETECTING POINT MUTATIONS IN THE ACTIVE SITE OF *PLASMODIUM FALCIPARUM* ADENOSINE TRIPHOSPHATASE 6, THE PUTATIVE TARGET FOR ARTEMISININ

Erasmus Kamugisha[1], Hakim Sendagire[1], Mark KadduMukasa[1], Gote Swedberg[2], Fred Kironde[1]

[1]Makerere University, Kampala, Uganda, [2]Upsalla University, Upsalla, Sweden

(ACMCIP Abstract)

2:15 p.m.

655

PFSUB2 MATURASE, A NEW TARGET FOR DRUG DESIGN: ANALYSIS OF THE POLYMORPHISM OF PFMSP1 AND PFAMA1 MATURATION SITE AND OF THE CATALYTIC SITE OF PFSUB2 IN WILD-TYPE ISOLATES OF *P. FALCIPARUM*

Marie Louise Varela[1], Jean-Christophe Barale[2], Ronan Jambou[1]

[1]Pasteur Institute, Dakar, Senegal, [2]Pasteur Institute, Paris, France

(ACMCIP Abstract)

2:30 p.m.

656

EFFECTS OF INTERNAL DELETIONS OF HYDROXYMETHYLPTERIDINE PYROPHOSPHOKINASE-DIHYDROPTEROATE SYNTHASE FROM *P. FALCIPARUM*

Göte Swedberg[1], Maria Jönsson[1], Woraphol Ratanachuen[2]

[1]Uppsala University, Uppsala, Sweden, [2]Mahidol University, Bangkok, Thailand

2:45 p.m.

657

GENOME-WIDE STRUCTURE AND EXPRESSION CHANGES IN RESPONSE TO SINGLE-STEP CHLOROQUINE AND QUININE SELECTION IN *PLASMODIUM FALCIPARUM*

Jigar J. Patel[1], Bingbing Deng[1], John C. Tan[1], Lisa Checkley[1], Craig Blain[1], Kristin D. Lane[2], Roland A. Cooper[2], Michael T. Ferdig[1]

[1]University of Notre Dame, Notre Dame, IN, United States, [2]Old Dominion University, Norfolk, VA, United States

3 p.m.

658

USE OF THE QUANTITATIVE MSP-1 HETERODUPLEX TRACKING ASSAY TO DISTINGUISH *PLASMODIUM FALCIPARUM* REINFECTION FROM FAILURE

Jesse Kwiek, Alisa P. Alker, Emily C. Wenink, Linda V. Kalilani, Steve Meshnick

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

Symposium 69A

Dihydroartemisinin-Piperaquine: A New Affordable ACT

Supported with funding from Holleypharm

International 4

Tuesday, November 14, 2006 1:30 p.m. – 3:15 p.m.

CHAIR

Francois Nosten

Shoklo Malaria Research Unit, Mahidol University, Bangkok, Thailand

Tran Tinh Hien

Hospital for Tropical Diseases, Ho Chi Minh City, Viet Nam

1:30 p.m.

INTRODUCTION AND BRIEF HISTORY OF DIHYDROARTEMISININ-PIPERAQUINE

Nick White

Wellcome Trust Mahidol University Oxford Tropical Medicine Research Programme, Bangkok, Thailand

1:35 p.m.

PHARMACOLOGY OF DIHYDROARTEMISININ AND PIPERAQUINE

Nick White

Wellcome Trust Mahidol University Oxford Tropical Medicine Research Programme, Bangkok, Thailand

1:50 p.m.

DHA-PIPERAQUINE DOSE FINDING STUDIES

Elizabeth Ashley

Epicentre, Paris, France

2:00 p.m.

CLINICAL TRIALS OF DHA-PIPERAQUINE IN LAOS

Mayfong Mayxay

Mahosot Hospital, Vientiane, Lao People's Democratic Republic

2:10 p.m.

DHA-PIPERAQUINE IN MULTI-DRUG RESISTANT VIVAX MALARIA IN INDONESIA

Emiliana Tjitra

Ministry of Health, Jakarta, Indonesia

2:20 p.m.

DHA-PIPERAQUINE: GLOBAL EFFICACY OVERVIEW

Francois Nosten

Shoklo Malaria Research Unit, Mahidol University, Bangkok, Thailand

2:30 p.m.

LARGE SCALE COMMUNITY DEPLOYMENT OF DHA-PIPERAQUINE IN VIET NAM

Tran Tinh Hien

Hospital for Tropical Diseases, Ho Chi Minh City, Viet Nam

2:40 p.m.

DHA-PIPERAQUINE: GLOBAL SAFETY OVERVIEW

Hla Myint

Mahidol University, Bangkok, Thailand

2:55 p.m.

THE FUTURE OF DHA-PIPERAQUINE

Nick White

Wellcome Trust Mahidol University Oxford Tropical Medicine Research Programme, Bangkok, Thailand

Scientific Session 70

Viruses I

Marquis 1

Tuesday, November 14 1:30 p.m. – 3:15 p.m.

CHAIR

Harvey Artsob

Zoonotic Disease Federal Labs, Winnipeg, MB, Canada

Stuart Nichol

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

1:30 p.m.

659

CONSUMPTION OF BATS IS A RISK FACTOR FOR EBOLA VIRUS INFECTION AMONG RURAL CAMEROONIAN ADULTS

Mark H. Kuniholm[1], Cynthia A. Rossi[2], Eitel Mpoudi-Ngole[3], Ubald Tamoufe[4], Matthew LeBreton[4], Anne W. Rimoin[5], Daniel G. Bausch[6], Donald S. Burke[1], Nathan D. Wolfe[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]U.S. Army Medical Research Institute of Infectious Diseases, Frederick, MD, United States, [3]Army Health Research Center, Yaounde, Cameroon, [4]Johns Hopkins Cameroon Program, Yaounde, Cameroon, [5]University of California Los Angeles School of Public Health, Los Angeles, CA, United States, [6]Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

1:45 p.m.

660

CHARACTERIZATION OF MARBURG VIRUS FROM A RECENT OUTBREAK IN ANGOLA

Darryl Falzarano[1], Friederike Feldmann[2], Sandra Martin[2], Joan Geisbert[3], Allen Grolla[2], Lisa Fernando[2], Ute Ströher[2], Hideki Ebihara[4], Jim Strong[2], Steven Jones[2], Heinz Feldmann[2], Thomas W. Geisbert[3]

[1]Department of Medical Microbiology, University of Manitoba, Winnipeg, MB, Canada, [2]Special Pathogens Program, National Microbiology Laboratory, Winnipeg, MB, Canada, [3]Virology Division, United States Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States, [4]Institute of Medical Science, University of Tokyo, Tokyo, Japan

2 p.m.

661

EMERGENCY VACCINATION RESPONSES DURING LARGE MEASLES OUTBREAKS: EARLY INTERVENTION LEADS TO A HIGH PROPORTION OF AVERTED CASES

Rebecca F. Grais[1], Andrew C. Conlan[2], Matthew J. Ferrari[3], Ali Djibo[4], Florence Fermon[5], Philippe J. Guerin[1], Christine Dubray[1], Ottar N. Bjornstad[3], Bryan T. Grenfell[3]

[1]Epicentre, Paris, France, [2]Cambridge University, Cambridge, United Kingdom, [3]Pennsylvania State University, University Park, PA, United States, [4]Ministry of Health, Niamey, Niger, [5]Medecins Sans Frontieres, Paris, France

2:15 p.m.

662

LATE OUTCOMES OF RIFT VALLEY FEVER IN KENYA: IJARA CLINICAL SURVEY

A. Desiree LaBeaud[1], Clarence J. Peters[2], Eric M. Muchiri[3], Charles H. King[4]

[1]University Hospitals of Cleveland; Rainbow Babies and Children's Hospital, Cleveland, OH, United States, [2]University of Texas Medical Branch, Galveston, TX, United States, [3]Division of Vector Borne Disease, Ministry of Health, Nairobi, Kenya, [4]Case Western Reserve University, Cleveland, OH, United States

2:30 p.m.

663

SUCCESSIVE OUTBREAKS OF VIRAL HAEMORRHAGIC FEVERS (CCHF AND RVF) IN MAURITANIA, 2003

Ousmane Faye[1], Baidy Lô[2], Dah O. Cheikh[3], Pierre Nabeth[1], Mbayame Niang[1], Idoumou O. Vall[2], Djibril Diop[2], Mawlouth Diallo[1], Boubacar Diallo[4], François Simon[1], **Ousmane M. Diop[1]**

[1]Pasteur Institute, Dakar, Senegal, [2]Centre Hospitalier National, Nouakchott, Mauritania, [3]Ministry of Health, Nouakchott, Mauritania, [4]CNERV, Nouakchott, Mauritania

2:45 p.m.

664

TWO NOVEL ASSAYS FOR MOLECULAR DETECTION OF CRIMEAN-CONGO HEMORRHAGIC FEVER VIRUS

Roman Wölfel[1], Nadine Petersen[2], Stephan Günther[2], Christian Drosten[2]

[1]Bundeswehr Institute of Microbiology, Munich, Germany, [2]Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

3 p.m.

665

A ROLE FOR THE CRIMEAN-CONGO HAEMORRHAGIC FEVER VIRUS (CCHFV) NUCLEOPROTEIN IN MEDIATING PARTICLE ASSEMBLY AND RELEASE

Adrienne F. Meyers[1], Paul Hazelton[2], Hideki Ebihara[3], Martin J. Vincent[4], Stuart T. Nichol[4], Heinz Feldmann[5], Harvey Artsob[5]

[1]Public Health Agency of Canada, University of Manitoba, Winnipeg, MB, Canada, [2]University of Manitoba, Winnipeg, MB, Canada, [3]Japan Science and Technology Agency, Saitama, Japan, [4]Centers for Disease Control and Prevention, Atlanta, GA, United States, [5]Public Health Agency of Canada, Winnipeg, MB, Canada

Symposium 71

Clinical Group I

Supported with funding from International Association for Medical Assistance to Travelers

Marquis 2

Tuesday, November 14 1:30 p.m. – 3:15 p.m.

This symposium will feature the Marcolongo Lecture on malaria in Kenya and a presentation on Chikungunya virus infection.

CHAIR

Dick MacLean

McGill University Centre for Tropical Disease, Montreal, QC, Canada

1:30 p.m.

VINCENZO MARCOLONGO MEMORIAL LECTURE. SEVERE MALARIA: A MOVING TARGET?

Kevin Marsh

KEMRI-Wellcome Trust Collaborative Research Programme, Kilifi, Kenya

2:30 p.m.

CHIKUNGUNYA FEVER IN FRENCH TRAVELERS FROM MARSEILLES

Philippe Parola

l'Hopital Nord de Marseille, Marseille, France

Exhibit Hall Open

International Level

Tuesday, November 14 3:00 p.m. – 4:00 p.m.

Coffee Break

International Level

Tuesday, November 14 3:15 p.m. – 3:45 p.m.

Symposium 72

Anti-Malarial Drug Resistance Undone: The Effect of Removal of Drug Pressure on Drug Resistant Malaria

Bonn/London

Tuesday, November 14 3:45 p.m. – 5:30 p.m.

As artemisinin-based combination therapy is introduced throughout Africa, pressure from the commonly used anti-malarials, sulfadoxine-pyrimethamine and chloroquine, will be reduced in the region. What is the effect of the removal of drug pressure on resistance to chloroquine and sulfadoxine-pyrimethamine? How can we take advantage of this opportunity to learn more about the spread of drug resistance and how to deter it in the future?

CHAIR

Miriam K. Laufer

University of Maryland Center for Vaccine Development, Baltimore, MD, United States

Christopher V. Plowe

University of Maryland Center for Vaccine Development, Baltimore, MD, United States

3:45 p.m.

CHLOROQUINE EFFICACY IN MALAWI 12 YEARS AFTER CESSATION OF CHLOROQUINE USE

Miriam K. Laufer

University of Maryland Center for Vaccine Development, Baltimore, MD, United States

4:10 p.m.

CHLOROQUINE RESISTANT MALARIA IN CHINA

Thomas E. Wellems

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

4:35 p.m.

MICROBIAL FITNESS AND COMPETITION

Bruce R. Levin

Emory University, Atlanta, GA, United States

4:50 p.m.

MODELLING THE RE-EMERGENCE OF DRUG RESISTANCE

David L. Smith

Fogarty International Center, Bethesda, MD, United States

Symposium 73

Pathogen Control by the Innate Immune System of Mosquito Disease Vectors

International 5/6

Tuesday, November 14 3:45 p.m. – 5:30 p.m.

This symposium is reviewing the progress and current advances on the understanding of how mosquitoes can combat pathogenic infections. Presentations will specifically address mechanisms of immune recognition, the regulation of pathogen specific innate immune responses and the functional dissection of resistance phenotypes.

CHAIR

George Dimopoulos

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

3:45 p.m.

INTRODUCTION

George Dimopoulos

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

3:50 p.m.

FUNCTIONAL DISSECTION OF PLASMODIUM RESISTANCE

Kenneth Vernick

University of Minnesota, St. Paul, MN, United States

4:15 p.m.

THE TOLL IMMUNE PATHWAY IN *AEDES AEGYPTI*

Alexander Raikhel

University of California - Riverside, Riverside, CA, United States

4:40 p.m.

THE IMD-REL2 IMMUNE PATHWAY IN *ANOPHELES GAMBIAE*

Liangbiao Zheng

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

5:05 p.m.

PATHOGEN RECOGNITION IN *ANOPHELES GAMBIAE*

George Dimopoulos

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

Scientific Session 74

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) — Cellular Parasitology II

Supported with funding from the Burroughs Wellcome Fund

Copenhagen/Stockholm/Amsterdam

Tuesday, November 14 3:45 p.m. - 5:30 p.m.

CHAIR

Marcelo Jacobs-Lorena

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

Christopher King

Case Western Reserve University, Cleveland, OH, United States

3:45 p.m.

1114

THE MITOCHONDRIAL ELECTRON TRANSPORT IN ERYTHROCYTIC STAGES OF P. FALCIPARUM NOT NECESSARY EXCEPT FOR PYRIMIDINE BIOSYNTHESIS

Heather J. Painter, Joanne M. Morrisey, Michael W. Mather, Akhil B. Vaidya

Drexel University College of Medicine, Philadelphia, PA, United States

4 p.m.

666

STAT SIGNALING REGULATES *PLASMODIUM BERGHEI* INFECTION IN *ANOPHELES GAMBIAE* MOSQUITO

Lalita Gupta, Sanjeev Kumar, Carolina Barillas-Mury

National Institute of Health, Rockville, MD, United States

4:15 p.m.

667

A NOVEL ANTIVECTOR *PLASMODIUM FALCIPARUM* TRANSMISSION-BLOCKING ANTIBODY REVEALS HETEROGENEOUS OOKINETE INVASION STRATEGIES

Rhoel R. Dinglasan[1], Dario E. Kalume[2], Stefan M. Kanzok[1], Anil Ghosh[1], Olga Muratova[3], Akhilesh Pandey[2], Marcelo Jacobs-Lorena[1]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Johns Hopkins School of Medicine, Baltimore, MD, United States, [3]Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

4:30 p.m.

668

VARIANT-SPECIFIC BINDING OF RECOMBINANT *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN TO HUMAN ERYTHROCYTES

Kara K. Martin[1], Xainli Jia[1], Jennifer Cole-Tobian[1], Sanjay Singh[2], **Christopher L. King[3]**

[1]Case Western Reserve University, Cleveland, OH, United States, [2]National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [3]Case Western Reserve University and Veteran's Affairs Medical Center, Shaker Heights, OH, United States

4:45 p.m.

669

MOLECULAR BASIS OF PLACENTAL MALARIA — STRUCTURAL REQUIREMENTS OF CHONDROITIN SULFATES FOR BINDING PFEMP1, THE INFLUENCE OF PROTEIN POLYMORPHISMS ON BINDING SPECIFICITY, AND IDENTIFICATION OF OPTIMAL INHIBITORS OF PARASITE ADHESION

James G. Beeson[1], Wengang Chai[2], Katherine T. Andrews[3], Michelle Boyle[1], Ee Ken Choong[4], Joanne Chesson[1], Michael F. Duffy[4], Timothy Byrne[4], Alexander M. Lawson[2]

[1]Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, [2]MRC Glycosciences Laboratory, Imperial College London, Northwick Park Hospital Campus, Harrow, United Kingdom, [3]Queensland Institute of Medical Research, Herston, Australia, [4]Department of Medicine, University of Melbourne, Royal Melbourne Hospital, Australia

5 p.m.

ACMCIP BUSINESS MEETING

John H. Adams

University of Notre Dame, Notre Dame, IN, United States

Symposium 75

Pathogen Genomes: Where Are We Now and Where Are We Going?

Marquis 3

Tuesday, November 14 3:45 p.m. – 5:30 p.m.

This symposium is designed to review the efforts towards completing genome projects for several human pathogens of viral, parasitic and bacterial origin. The symposium will bring us up-to-date descriptions on the genome projects that are currently ongoing in three main reference laboratories: The Broad Institute and TIGR in the US and the Wellcome Trust in Europe. Each will provide an overview, future plans in the area of genome research and new technologies being used to solve high throughput demands. By bringing together at the same discussion table the different genome projects, the audience will be able to compare relative achievements in each area (virus, parasites bacteria, mosquito), as well as to learn what future prospects the data will contribute to the advancement of science and health. This event is co-organized by the NAIAD, U19-A1057319 of the University of Massachusetts Medical School and the NERCE of Harvard University.

CHAIR

Irene Bosch

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

3:45 p.m.

INTRODUCTION

Irene Bosch

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

3:55 p.m.

ARENAVIRUSES IN THE AMERICAS

Gabriel M. González

Instituto Venezolano de Investigaciones Científica, Caracas, Venezuela

4:05 p.m.

INFECTIOUS DISEASE COMPARATIVE GENOMICS AT THE BROAD INSTITUTE

Matthew Henn

The Broad Institute, Boston, MA, United States

4:25 p.m.

THE INSTITUTE OF GENOMIC RESEARCH (TIGR) INFLUENZA VIRUS GENOME PROJECTS

David Spiro

The Institute of Genomic Research, Rockville, MD, United States

4:45 p.m.

THE WELLCOME TRUST SANGER INSTITUTE PATHOGENS GENOME PROJECTS

Matthew Berriman

The Wellcome Trust Sanger Institute, Hinxton, United Kingdom

5:05 p.m.

VARIATION DETECTION ARRAYS FOR HIGH THROUGHPUT GENOTYPING

David Kulp

University of Massachusetts, Amherst, MA, United States

Scientific Session 76

Malaria – Diagnosis

Marquis 4

Tuesday, November 14 3:45 p.m. – 5:30 p.m.

CHAIR

Louise M. Causer

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

Bryan Greenhouse

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

3:45 p.m.

670

EVALUATION OF IMPACT OF MALARIA RAPID DIAGNOSTIC TESTS (RDTS) ON HEALTHCARE WORKER PRESCRIBING PRACTICES — TANZANIA, MARCH 2005

Louise M. Causer[1], Aggrey Malila[2], Holly A. Williams[1], Emmy Metta[2], Terrence O'Reilly[1], S. Patrick Kachur[1], Peter B. Bloland[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Ifakara Health Research and Development Center, Dar es Salaam, United Republic of Tanzania

4 p.m.

671

ACCEPTANCE AND USAGE OF MALARIA RAPID DIAGNOSTIC TESTS AT DISPENSARY LEVEL BY PRESCRIBERS AND PATIENTS -TANZANIA, MARCH 2005

Holly A. Williams[1], Emmy Metta[2], Louise M. Causer[1], Aggrey Malila[2], Terrence O'Reilly[1], S. Patrick Kachur[1], Peter B. Bloland[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania

4:15 p.m.

672

EVALUATION OF TWO RAPID DIAGNOSTIC TESTS (RDTS) FOR MALARIA IN A LONGITUDINAL COHORT IN KAMPALA, UGANDA

Heidi Hopkins[1], Wilson Kambale[2], Moses R. Kamya[3], Sarah G. Staedke[4], Grant Dorsey[4], Philip J. Rosenthal[4]

[1]University of California, San Francisco, Kampala, Uganda, [2]Makerere University-University of California San Francisco, Malaria Research Collaboration, Kampala, Uganda, [3]Makerere University, Department of Medicine, Kampala, Uganda, [4]University of California, San Francisco, San Francisco, CA, United States

4:30 p.m.

673

THE USE OF MICROSATELLITES IN MALARIA GENOTYPING IMPROVES THE ABILITY TO CORRECTLY DISTINGUISH NEW INFECTIONS FROM RECRUDESCENCE

Bryan Greenhouse, Alissa Myrick, Christian Dokomajilar, Jonathan M. Woo, Elaine J. Carlson, Philip J. Rosenthal, Grant Dorsey

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

4:45 p.m.

674

THE CLINICAL PRESENTATION OF MALARIA IN AFRICAN PREGNANT WOMEN: CORRELATION OF SYMPTOMS AND SIGNS WITH *PLASMODIUM FALCIPARUM* PARASITAEMIA

Azucena Bardají[1], Catarina David[2], Sonia Amós[3], Cleofé Romagosa[1], María Maixenchs[2], Betuel Sigauque[2], Artemisa Ana Banda[3], Laia Bruni[1], Sergi Sanz[1], John Aponte[1], Pedro L. Alonso[1], Clara Menéndez[1]

[1]International Health Centre, Barcelona, Spain, [2]Manhiça Health Research Centre, Manhiça, Mozambique, [3]Manhiça Health Centre, Manhiça, Mozambique

5 p.m.

675

A RAPID ASSESSMENT ON THE HOME MANAGEMENT OF MALARIA IN ZAMBIA: THE CARETAKER AND THE COMMUNITY HEALTH WORKER

Pascalina Chanda, Hawela Moonga, Naawa Sipilanyambe

National Malaria Control Center, Lusaka, Zambia

5:15 p.m.

676

RAPID ASSESSMENTS OF MALARIA CONTROL STRATEGIES IN TANZANIAN REFUGEE CAMPS - JANUARY 2006

Holly A. Williams[1], Raufou Makou[2], Terrence O'Reilly[3], Avid Reza[3], Robert Wirtz[3]

[1]Centers for Disease Control and Prevention, Chamblee, GA, United States, [2]United Nations High Commission for Refugees, Kibondo, United Republic of Tanzania, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States

Symposium 77

Expanding Industry Involvement in Developing Therapies for Neglected Diseases

International 7

Tuesday, November 14 3:45 p.m. – 5:30 p.m.

Despite recent growth in academic and public health work on neglected disease drug development, there remains a gap in industry support for advancing novel therapies through pharmaceutical development. This symposium will identify new initiatives that have begun to address this need, including novel academic-industrial collaborations, new models being developed by public-private partnerships, advanced market commitments, tax policies and other initiatives. It is intended to help industry recognize the value of such work for shareholders, policymakers and other important stakeholders, and to help catalyze additional corporate involvement in this field.

CHAIR

James A. Geraghty

Genzyme, Cambridge, MA, United States

Christopher Hentschel

Medicines for Malaria Venture, Geneva, Switzerland

3:45 p.m.

INTRODUCTION

James A. Geraghty

Genzyme, Cambridge, MA, United States

4:05 p.m.

INTRODUCTION

Christopher Hentschel

Medicines for Malaria Venture, Geneva, Switzerland

4:25 p.m.

EXPANDING INDUSTRY INVOLVEMENT DEVELOPING THERAPIES

Dyann F. Wirth

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

4:45 p.m.

EXPANDING INDUSTRY INVOLVEMENT DEVELOPING THERAPIES

Christopher D. Earl

BIO Ventures for Global Health, Washington, DC, United States

5:05 p.m.

QUESTIONS AND ANSWERS

Scientific Session 78

Viruses II

Marquis 1

Tuesday, November 14 3:45 p.m. – 5:30 p.m.

CHAIR

Brian Hjelle

University of New Mexico Health Science Center, Albuquerque, NM, United States

Sabra L. Klein

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

3:15 p.m.

677

SEOUL VIRUS REPLICATION AND ANTIVIRAL RESPONSES DIFFER BETWEEN MALE AND FEMALE NORWAY RATS

Sabra L. Klein, Michele F. Hannah, Judith D. Easterbrook, Anne E. Jedlicka, Alan L. Scott, Gregory E. Glass

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

3:30 p.m.

678

PROINFLAMMATORY AND REGULATORY RESPONSES MAY MEDIATE SEOUL VIRUS PERSISTENCE IN NORWAY RATS

Judith D. Easterbrook, Sabra L. Klein

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

3:45 p.m.

679

NEITHER TLR-3 NOR RIG-I ARE SUFFICIENT FOR RECOGNITION OF THE PATHOGEN-ASSOCIATED MOLECULAR PATTERN (PAMP) THAT INITIATES AN INNATE IMMUNE RESPONSE TO SIN NOMBRE HANTAVIRUS

Joseph Prescott, Chunyan Ye, **Brian Hjelle**

University of New Mexico HSC, Albuquerque, NM, United States

4 p.m.

680

EVALUATION OF A PRAIRIE DOG ANIMAL MODEL FOR MONKEYPOX VIRUS INFECTION

Christina L. Hutson[1], Victoria A. Olson[1], Darin S. Carroll[1], Jason A. Abel[1], Jorge E. Osorio[2], Michael Dillon[1], Kevin Karem[1], Inger K. Damon[1], Russell L. Regnery[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]University of Wisconsin - Madison, Madison, WI, United States

4:15 p.m.

681

PERSISTENCE OF ATTENUATED VARIANTS OF VENEZUELAN EQUINE ENCEPHALITIS VIRUS (VEEV) IN THE MURINE BRAIN

Michele A. Zacks, Natallia Dziuba, Haolin Ni, Ilya Frolov, Gerald A. Campbell, Nadezda E. Yun, Scott C. Weaver, Mark D. Estes, Slobodan Paessler

University of Texas Medical Branch Galveston, TX, United States

4:30 p.m.

682

VENEZUELAN EQUINE ENCEPHALITIS VIRUS CANDIDATE VACCINE (V3526) PROTECTS HAMSTERS FROM CHALLENGE BY BOTH MOSQUITO BITE OR INTRAPERITONEAL INJECTION

Michael J. Turell, Michael D. Parker

US Army Medical Research Institute for Infectious Diseases, Frederick, MD, United States

4:45 p.m.

683

CLINICAL MANIFESTATIONS ASSOCIATED WITH HTLV-I INFECTION: A CROSS-SECTIONAL STUDY

Marina F. Caskey

Cornell University, New York, NY, United States

Symposium 79

Clinical Group II

Marquis 2

Tuesday, November 14 3:45 p.m. – 5:30 p.m.

This symposium will include a malaria prevention presentation and an update on surveillance data from GeoSentinel.

CHAIR
Dick MacLean
McGill University Centre for Tropical Disease, Montreal, QC, Canada

3:45 p.m.

MALARIA PREVENTION UPDATE FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION

Paul Arquin
Centers for Disease Control and Prevention, Division of Parasitic Diseases, Malaria Branch, Atlanta, GA, United States

4:25 p.m.

GEOSENTINEL SURVEILLANCE UPDATE

David O. Freedman
University of Alabama at Birmingham, Birmingham, AL, United States

4:55 p.m.

CLINICAL GROUP ANNUAL BUSINESS MEETING

Dick MacLean
McGill University Centre for Tropical Disease, Montreal, QC, Canada

Plenary Session III

Commemorative Fund Lecture

Marquis Ballroom

Tuesday, November 14 6:00 p.m. – 6:45 p.m.

The ASTMH Commemorative Fund Lecture is presented annually by an invited senior researcher resident in the tropics.

CHAIR
Myron M. Levine
University of Maryland School of Medicine, Baltimore, MD, United States

THE CONTROL OF INFECTIOUS DISEASES IN TROPICAL AFRICA: PERSONAL EXPERIENCES OF A FIELD LEPROLOGIST AND VACCINOLOGIST

Samba O. Sow
Center for Vaccine Development-Mali, Bamako, Mali

Poster Session B Dismantle

International and Skyline Levels

Tuesday, November 14 7:00 p.m. – 8:00 p.m.

Burroughs Wellcome Fund — ASTMH Fellowship Committee Meeting

Room 3908

Tuesday, November 14 7:00 p.m. – 9:00 p.m.

Wednesday, November 15

Registration

Marquis Foyer

Wednesday, November 15 7:00 a.m. – 5:00 p.m.

Cyber Café

Garden Level South

Wednesday, November 15 7:00 a.m. – 5:00 p.m.

Speaker Ready Room

International B/C

Wednesday, November 15 7:00 a.m. – 6:00 p.m.

Diploma Course Directors Meeting

Room 3834

Wednesday, November 15 7:00 a.m. – 8:00 a.m.

Scientific Program Committee Meeting

Consulate

Wednesday, November 15 7:00 a.m. – 8:00 a.m.

ASTMH Past Presidents Meeting

Summit

Wednesday, November 15 7:00 a.m. – 8:00 a.m.

Cyberspace/Web Site Committee Meeting

Room 3908

Wednesday, November 15 7:00 a.m. – 8:00 a.m.

Symposium 80

Tropical Disease in a Temperate Climate

International 5/6

Wednesday, November 15 8:00 a.m. – 9:45 a.m.

Since August 2000 we have prospectively collected a database of all patients admitted to the Hospital for Tropical Diseases in London. This database now contains over 2000 cases, with falciparum malaria comprising more than 600 and includes all the major tropical diseases such as Hansen's disease, filariasis, leishmaniasis, human African trypanosomiasis, tuberculosis, tetanus, gastroenteritis and viral infections such as dengue, and a single case of rabies. We intend to present an overview of these cases, with specific focus on the pattern of imported disease presenting to this hospital over the last five years.

CHAIR
Tom Doherty
Hospital for Tropical Diseases, London, United Kingdom

8 a.m.

INTRODUCTION
Tom Doherty
Hospital for Tropical Diseases, London, United Kingdom

8:20 a.m.

600 CASES OF FALCIPARUM MALARIA
Maggie Armstrong
Hospital for Tropical Diseases, London, United Kingdom

8:45 a.m.

A WORLD TOUR OF WORMS
Anna Checkley
Hospital for Tropical Diseases, London, United Kingdom

9:10 a.m.

THE CHANGING PATTERN OF IMPORTED DISEASE
Ron Behrens
Hospital for Tropical Diseases, London, United Kingdom

Scientific Session 81

Kinetoplastida I: Immunology and Molecular Biology

Copenhagen/Stockholm/Amsterdam

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

CHAIR
Diana Martin
University of Georgia, Athens, GA, United States

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

8 a.m.

684

CD8+ T CELLS RECOGNIZE BUT DO NOT ELIMINATE *T. CRUZI* FROM NONLYMPHOID TISSUE

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

(ACMCIP Abstract)

8:15 a.m.

685

***LEISHMANIA CHAGASI* T CELL ANTIGENS IDENTIFIED THROUGH A DOUBLE LIBRARY SCREEN**

Daniella R. Martins[1], Selma M. Jeronimo[2], John E. Donelson[3], Mary E. Wilson[4]
[1]Federal University of Rio Grande do Norte, Natal, RN, Brazil, [2]Federal University of Rio Grande do Norte, Natal, Brazil, [3]University of Iowa, Iowa City, IA, United States, [4]University of Iowa and Veterans Affairs Medical Center, Iowa City, IA, United States

(ACMCIP Abstract)

8:30 a.m.

686

SILENCING OF LAMININ γ-1 GENE BY RNA INTERFERENCE BLOCKS *TRYPANOSOMA CRUZI* INFECTION

Kaneatra J. Simmons, Pius Nde, Nia Madison, Yuliya Kleschenko, Maria F. Lima, Fernando Villalta
Meharry Medical College, Nashville, TN, United States

(ACMCIP Abstract)

8:45 a.m.

687

STAT1 PLAYS DISTINCT ROLE IN DETERMINING OUTCOME OF *L. DONOVANI* INFECTION IN C57BL/6 AND BALB/C MICE

Abhay Satoskar, Heidi Snider, Joseph Barbi, Lucia Rosas, Joan Durbin
Ohio State University, Columbus, OH, United States

(ACMCIP Abstract)

9 a.m.

688

STABLE RNAI OF HUMAN THROMBOSPONDIN-1 (TSP-1) INHIBITS THE EARLY PROCESS OF *TRYPANOSOMA CRUZI* INFECTION

Kaneatra J. Simmons, Pius Nde, Nia Madison, Yuliya Kleschenko, Maria F. Lima, Fernando Villalta
Meharry Medical College, Nashville, TN, United States

(ACMCIP Abstract)

9:15 a.m.

689

DEFENSIN α-1 EXPRESSION IS UP-REGULATED IN HUMAN CELLS IN RESPONSE TO EARLY *TRYPANOSOMA CRUZI* INFECTION AS A TRYPANOCIDAL MECHANISM TO DECREASE CELLULAR INFECTION

Marisa N. Madison, Yuliya Y. Kleshchenko, Pius Nde, Kaneatra Simmons, Maria F. Lima, Fernando Villalta
Meharry Medical College, Nashville, TN, United States

(ACMCIP Abstract)

9:30 a.m.

690

PEROMYSCUS YUCATANICUS* PROTECTIVE IMMUNITY INDUCED BY EXPERIMENTAL SUBCLINICAL INFECTION WITH *LEISHMANIA (LEISHMANIA) MEXICANA

Fernando J. Andrade-Narvaez
Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico

(ACMCIP Abstract)

Symposium 82

Immune-Mediated Protection Against Dengue Virus

Marquis 3

Wednesday, November 15 8 a.m. - 9:45 a.m.

Dengue virus causes disease globally with an estimated 25 to 100 million new infections per year. The four serotypes of Dengue virus cause a spectrum of disease ranging from a self-limited febrile illness (DF) to a life-threatening capillary leak syndrome (dengue hemorrhagic fever (DHF)). Over the last few decades, much effort has been placed on trying to understand the pathogenesis of DHF, the most severe form of the disease, which occurs in approximately 0.5% of individuals with secondary infection. Despite intense study, no vaccine has been approved for human use and treatment is supportive. A more fundamental understanding of the host protective responses and the mechanisms by which Dengue virus evades immune system recognition is essential to development of safe and effective vaccines. By reviewing the latest developments in dengue virus immunology, this symposium will foster discussion as to how the host immune response effectively controls dengue virus infection in the majority of cases without serious pathological consequences.

CHAIR

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

Scott B. Halstead
Pedatric Dengue Vaccine Initiative, North Bethesda, MD, United States

8 a.m.

INTRODUCTION

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

8:05 a.m.

ROLE OF ANTIBODIES IN DENGUE VIRUS INFECTION

Scott B. Halstead
Pediatric Dengue Vaccine Initiative, North Bethesda, MD, United States

8:30 a.m.

INTERFERON PROTECTION AND ANTAGONISM

Michael Gale, Jr.
University of Texas Southwestern, Dallas, TX, United States

9:55 a.m.

THE CONTRIBUTION OF CD8+ T CELLS TO PROTECTION

Alan L. Rothman
University of Massachusetts Medical School, Worcester, MA, United States

9:20 a.m.

FUNCTION OF NEUTRALIZING AND NON-NEUTRALIZING ANTIBODIES

Ted C. Pierson
National Institutes of Health, Bethesda, MD, United States

Symposium 83

Creating a Public-Private Partnership to Develop a Pediatric Malaria Vaccine for Africa: Lessons from the Field

Marquis 4

Wednesday, November 15 8:00 a.m. – 9:45 a.m.

The PATH Malaria Vaccine Initiative (PATH MVI) has worked with GlaxoSmithKline (GSK) and local investigators to advance the GSK malaria vaccine candidate (called RTS,S) through a pediatric proof of concept trial in Mozambique. Based on the results of this trial, PATH MVI received a $107 million grant from the Bill and Melinda Gates Foundation (BMGF) in October 2005 for development of the vaccine through public-private partnership in Africa. A network of sites in African countries, represented by the Clinical Trial Partnership (CTPC), will perform the clinical trials supporting submission of a dossier to regulatory authorities prior to potential licensure of the vaccine in Africa.

CHAIR

Carolyn Petersen
Malaria Vaccine Initiative, Bethesda, MD, United States

Melinda Moree
Malaria Vaccine Initiative, Seattle, WA, United States

8 a.m.

DEVELOPING A CLINICAL TRIAL SITE AT A DISTRICT HOSPITAL TO PERFORM TRIALS FOR REGULATORY APPROVAL

Salim Abdulla
Ifakara Health Research Center, Bagamoyo, United Republic of Tanzania

8:25 a.m.

THE ROLE OF THE CLINICAL TRIAL PARTNERSHIP COMMITTEE

Seth Owusu-Agyei
Kintampo Health Research Center, Kintampo, Ghana

8:50 a.m.

SELECTION AND QUALIFICATION OF CLINICAL TRIAL SITES IN AFRICA

Amanda Leach

GlaxoSmithKline Biologicals, Rixensart, Belgium

9:15 a.m.

FINANCIAL MANAGEMENT OF INFRASTRUCTURE AND CLINICAL TRIAL BUDGETS IN THE PARTNERSHIP

Carolyn Petersen

Malaria Vaccine Initiative, Bethesda, MD, United States

Symposium 84

The Future of National Institutes of Health Funding for New Investigators — A Panel Discussion I

Marquis 1

Wednesday, November 15 8:00 a.m. – 9:45 a.m.

CHAIR

Ulrike G. Munderloh

University of Minnesota, St. Paul, MN, United States

8 a.m.

STRUGGLING NEW INVESTIGATORS: WHY ARE WE CONCERNED? AN INTRODUCTION

Ulrike Munderloh

University of Minnesota, St. Paul, MN, United States

8:25 a.m.

NATIONAL INSTITUTES OF HEALTH PROGRAMS AND INITIATIVE TO SUPPORT NEW INVESTIGATORS

Walter Schaffer

National Institutes of Health, Bethesda, MD, United States

8:50 a.m.

SECURING THE NATIONAL INSTITUTES OF HEALTH GRANT ON THE TRACK TO TENURE: A DEAN'S ADVICE TO YOUNG SCIENTISTS

David S. Stephens

Emory University School of Medicine, Atlanta, GA, United States

9:15 a.m.

PANEL DISCUSSION

Scientific Session 85

Mosquitoes — Vector Biology — Epidemiology I

Marquis 2

Wednesday, November 15 8:00 a.m. – 9:45 a.m.

CHAIR

Martin Donnelly

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Philip McCall

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8 a.m.

691

QUANTITATIVE ANALYSIS OF THE BEHAVIORAL INTERACTIONS OF *ANOPHELES GAMBIAE* S.S. WITH INSECTICIDE-TREATED BEDNETS

Fred Amimo[1], James Miller[1], John Vulule[2], Edward Walker[1]

[1]Michigan State University, E. Lansing, MI, United States, [2]Kenya Medical Research Institute, Kisumu, Kenya

8:15 a.m.

692

HOW LONG DO BEDNETS LAST? EVALUATION OF BEDNETS RETRIEVED FROM NORTHWEST GHANA AFTER 38 MONTHS OF HOUSEHOLD USE

Stephen C. Smith[1], Uday B. Joshi[1], Mark Grabowsky[2], Joel Selanikio[3], Theresa Nobiya[4], Thomas Aapore[4]

[1]Centers for Disease Control and Prevention/Atlanta Research and Education Foundation, Atlanta, GA, United States, [2]Centers for Disease Control and Prevention/The Global Fund, Geneva, Switzerland, [3]DataDyne, Washington, DC, United States, [4]Ghana Red Cross, Accra, Ghana

8:30 a.m.

693

INSECTICIDE TREATED BEDNETS FOR THE CONTROL OF DENGUE VECTORS IN HAITI

Audrey Lenhart[1], Nicolas Orelus[2], Neal Alexander[3], Tom Streit[2], Philip J. McCall[1]

[1]Liverpool School of Tropical Medicine, Liverpool, United Kingdom, [2]Notre Dame University/Hopital Ste. Croix, Leogane, Haiti, [3]London School of Hygiene and Tropical Medicine, London, United Kingdom

8:45 a.m.

694

THE USE OF PYRIPROXYFEN AS A CONTROL AGENT FOR *AEDES AEGYPTI* IN PERU

Gregor J. Devine[1], Cesar Cabezas[2], Victor Lopez[3], Karin Escobedo[3], Jeffrey Stancil[3], Helvio Astete[4], Amy Morrison[4], Carlos Alvarez[5], Elvira Zamora[5], Carlos Vidal[5], Stephen Yanoviak[6], Jhon E. Ramirez[3]

[1]Rothamsted Research, Harpenden, United Kingdom, [2]Instituto Nacional de Salud, Lima, Peru, [3]Naval Medical Research Center Detachment (NMRCD), Iquitos, Peru, [4]University of California Davis, Davis, CA, United States, [5]Direccion de Salud, Iquitos, Peru, [6]University of Florida, Gainesville, FL, United States

9 a.m.

695

SYSTEMATIC ANALYSIS OF PIGGYBAC STABILITY IN YELLOW FEVER MOSQUITOES, *AEDES AEGYPTI*

Nagaraja Sethuraman Balakathiresan[1], Channa Aluvihare[1], Danial Gheba[1], Edward Peckham[1], Peter W. Atkinson[2], David A. O' Brochta[1]

[1]University of Maryland Biotechnology Institute, Rockville, MD, United States, [2]Department of Entomology, University of California, Riverside, CA, United States

9:15 a.m.

696

LINKAGE DISEQUILIBRIUM MAPPING OF INSECTICIDE RESISTANCE LOCI IN *ANOPHELES GAMBIAE*

Martin Donnelly, Nadine P. Randle, Hilary Ranson

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

(ACMCIP Abstract)

9:30 a.m.

697

ESTIMATES OF SELECTION PRESSURE ON AN INSECTICIDE RESISTANCE LOCUS: SNP ANALYSIS OF THE VOLTAGE-GATED SODIUM CHANNEL GENE IN *ANOPHELES GAMBIAE*

Amy Lynd, PJ McCall, Martin J. Donnelly

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Symposium 86

Innovative Treatment Strategies for Children with Severe Malarial Anemia

Hilton Hotel – Grand Salon A

Wednesday, November 15 8:00 a.m. – 9:45 a.m.

The most profound impact of severe malarial anemia (SMA) is in 1-3 year olds. Although blood transfusions have been shown to decrease mortality in childhood SMA, a safe blood supply, blood banking and transfusion medicine support are neither available nor logistically feasible in most of the world where the malarial burden is high. The effect of acidosis and abrupt hypoxemia in developing tissue and organ vascular beds on growth and development in children is understudied, but substantial. This symposium will review the pertinent science in the efficacy and safety of newer hemoglobin-based oxygen carriers in children with SMA and encourage development of transdisciplinary scientific efforts in this arena.

CHAIR

Carol Elizabeth Nicholson

National Institutes of Health/National Institute of Child Health and Human Development, Bethesda, MD, United States

Linda Wright, MD

National Institutes of Health/National Institute of Child Health and Human Development, Bethesda, MD, United States

8 a.m.

INNOVATIVE OXYGEN TRANSPORTERS IN RESUSCITATION

Daniel Freilich

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

8:25 a.m.

PEDIATRIC TRANSFUSION PRACTICE IN LIFE THREATENING ANEMIA

Jeffrey Upperman

Childrens Hospital Los Angeles, Los Angeles, CA, United States

8:50 a.m.

ANIMAL MODELS FOR THERAPEUTIC DEVELOPMENT IN CHILDHOOD SEVERE MALARIAL ANEMIA

Wilbur Milhous, PhD

Walter Reed Army Institute for Research, Silver Spring, MD, United States

9:15 a.m.

TRANSFUSION PRACTICE IN PEDIATRIC CRITICAL CARE: SEVERE MALARIAL ANEMIA

Kathryn Maitland

KEMRI Wellcome, Kilifi, Kenya

Scientific Session 87

Bacteriology III — Respiratory/Other

Hilton Hotel – Grand Salon B

Wednesday, November 15 8:00 a.m. – 9:45 a.m.

CHAIR

Leonard Peruski

Centers for Disease Control and Prevention, Bangkok, Thailand, United States

Roshan Reporter

Los Angeles County Department of Health Services, Los Angeles, CA, United States

8 a.m.

698

INVASIVE BACTERIAL INFECTIONS AMONG 0- TO 35-MONTH OLD CHILDREN TREATED AS OUTPATIENTS AT A PEDIATRIC REFERRAL CENTER IN BAMAKO, MALI

Mama N. Doumbia[1], Samba O. Sow[1], Milagritos D. Tapia[2], Mahamadou M. Keita[1], Souleymane Diallo[3], Fadima C. Haidara[1], Uma U. Onwuchekwa[1], Mamadou M. Keita[3], Mariam Sylla[3], Myron M. Levine[2], Karen L. Kotloff[2]

[1]Center for Vaccine Development-Mali, Bamako, Mali, [2]University of Maryland School of Medicine, Center for Vaccine Development, Baltimore, MD, United States, [3]Hopital Gabriel Toure, Bamako, Mali

8:15 a.m.

699

CHARACTERIZATION OF *STREPTOCOCCUS PNEUMONIAE* ISOLATED FROM DISSEMINATED DISEASE IN RURAL THAILAND

Leelaowadee Sangsuk[1], Maria da Gloria Carvalho[2], Possawat Jornrakate[3], Anek Kaewpan[3], Prasert Salika[3], Prabda Prapasiri[3], Bernard Beall[2], **Leonard Peruski[3]**

[1]National Institute of Health, Ministry of Public Health, Nonthaburi, Thailand, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]International Emerging Infections Program, Thailand MOPH-US Centers for Disease Control and Prevention Collaboration, Bangkok, Thailand,

8:30 a.m.

700

USE OF FRACTIONAL DOSE TETRAVALENT A, C, W135 AND Y MENINGOCOCCAL POLYSACCHARIDE VACCINE: A NON INFERIORITY TRIAL

Philippe J. Guerin[1], Lisbeth M. Næss[2], Carole Fogg[1], Einar Rosenqvist[2], Loretxu Pinoges[1], Francis Bajunirwe[3], Rogers Twesigye[4], Ray Borrow[5], Oddvar Frøholm[2], Vincent Batwala[3], Ingeborg S. Aaberge[2], John-Arne Røttingen[2], Patrice Piola[1], Dominique A. Caugant[2]

[1]Epicentre, Paris, France, [2]Norwegian Institute of Public Health, Oslo, Norway, [3]Mbarara University of Science and Technology and Epicentre, Mbarara, Uganda, [4]Epicentre, Mbarara, Uganda, [5]Health Protection Agency, Manchester, United Kingdom

8:45 a.m.

701

A CASE OF BUBONIC PLAGUE IN URBAN LOS ANGELES

Roshan Reporter[1], Anne Anglim[2], Gail VanGordon[1], Anthony Gonzalez[1], Renjie Hu[3], Richard Davis[4], Aimee Janusz[5], Bill O'Rullian[6], Laurene Mascola[1]

[1]Los Angeles County Department of Health Services, Los Angeles, CA, United States, [2]University of Southern California, Los Angeles, CA, United States, [3]California Department of Health Services, Ontario, CA, United States, [4]California Department of Health Services, Nipomo, CA, United States, [5]Centers for Disease Control and Prevention, Fort Collins, CO, United States, [6]Kern County Department of Health Services, Bakersfield, CA, United States

9 a.m.

702

TRENDS IN SHIGELLOSIS BURDEN OF DISEASE IN ASIA

Pradip K. Bardhan, Aliya Naheed, David A. Sack, Abu S. Faruque

International Center for Diarrhoeal Disease Research (ICDDR,B): Centre for Health and Population Research, Dhaka, Bangladesh

9:15 a.m.

703

IMPROVING TB DIAGNOSIS IN HIGH BURDEN COUNTRIES BY USING FLUORESCENCE MICROSCOPES WITH LIGHT EMITTING DIODES (LEDS)

Richard M. Anthony[1], Lydia E. Kivihya-Ndugga[2], Maarten R. van Cleeff[3], Arend J. Kolk[1], Sjoukje Kuijper[1], Paul R. Klatser[1], **Linda Oskam[1]**

[1]KIT (Royal Tropical Institute) Biomedical Research, Amsterdam, The Netherlands, [2]Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, [3]Royal Netherlands Tuberculosis Foundation (KNCV), The Hague, The Netherlands

Symposium 88

Update RBx11160 Plus Piperaquine a New Antimalarial Combination in Development

Hilton Hotel – Grand Salon C

Wednesday, November 15 8:00 a.m. – 9:45 a.m.

RBx11160 is the first synthetic peroxide antimalarial from the Medicines for Malaria Venture (MMV) to go into clinical development. The collaboration between MMV and Ranbaxy Research Laboratories has successfully guided the molecule through preclinical, Phase I and Phase II clinical development. This update will focus on the Phase I and Phase II clinical trials of RBX11160 in volunteers and in patients with uncomplicated *Plasmodium falciparum* malaria. The decision to combine RBx11160 with piperaquine was made in 2005. As the partner drugs come closer to their first Phase II trials in combination, the preclinical and Phase I pharmacokinteic trials of piperaquine will also be presented.

CHAIR

J. Carl Craft

Medicines for Malaria Venture, Geneva, Switzerland

Win Gutteridge

Sevenoaks, Kent, United Kingdom

8 a.m.

PHARMACOKINETICS OF RBX11160 IN VOLUNTEERS AND IN PATIENTS WITH MALARIA

Jyoti K. Paliwal

Ranbaxy Laboratories Limited, Gurgaon, India

8:25 a.m.

PHARMACODYNAMICS OF RBX11160

Sornchai Looareesuwan

Mahidol University, Bangkok, Thailand

8:50 a.m.

PRECLINICAL SAFETY OF RBX11160 AND PIPERAQUINE

Vyas Madhavrao Shingatgeri

Ranbaxy Laboratories Limited, Gurgaon, India

9:15 a.m.

PIPERAQUINE PHARMACOKINETICS

Jörge Moehrle

Medicines for Malaria Venture, Geneva, Switzerland

Symposium 89

Prospects for an Effective and Safe Therapy for Human African Trypanosomiasis — A Case for Change

Hilton Hotel – Grand Salon D

Wednesday, November 15 8:00 a.m. – 9:45 a.m.

This symposium aims to review the efficacy and safety of current treatments for second stage sleeping sickness of human African trypanosomiasis (HAT). The speakers present evidence from treatment programs in sub-Saharan Africa and discuss barriers to access to effective treatment.

CHAIR

Unni Karunakara
Médecins sans Frontières, Amsterdam, The Netherlands

Manica Balasegaram
Médecins sans Frontières, London, United Kingdom

8 a.m.

INTRODUCTION TO HAT TREATMENT AND CONTROL

Manica Balasegaram
Médecins sans Frontières, London, United Kingdom

8:20 a.m.

PATTERNS OF MELARSOPROL TREATMENT FAILURE

Benjamin A. Dahl
Centers for Disease Control and Prevention, Atlanta, GA, United States

8:35 a.m.

EFLORNITHINE IS SAFER THAN MELARSOPROL IN THE TREATMENT OF SECOND STAGE TREATMENT OF HAT: EVIDENCE FROM MSF PROGRAMS

François Chappuis
University of Geneva, Geneva, Switzerland

8:50 a.m.

THE NIFURTMOX EFLORNITHINE CLINICAL TRIAL: EARLY EVIDENCE FROM THE REPUBLIC OF CONGO

Gerardo Priotto
Epicentre, Paris, France

9:05 a.m.

ACCESS TO SAFE AND EFFECTIVE TREATMENTS FOR HAT

Unni Karunakara
Médecins sans Frontières, Amsterdam, The Netherlands

9:20 a.m.

DISCUSSION

Unni Karunakara
Médecins sans Frontières, Amsterdam, The Netherlands

Scientific Session 90

Filariasis II — Molecular Biology/Biology

Hilton Hotel – Grand Salon E

Wednesday, November 15 8:00 a.m. – 9:45 a.m.

CHAIR

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

Steven Williams
Smith College/University of Massachusetts, Northampton, MA, United States

8 a.m.

704

LOCALIZATION OF GENDER-BIASED GENE EXPRESSION IN ADULT *BRUGIA MALAYI*

Daojun Jiang, Benwen Li, Peter Fischer, Gary J. Weil
Washington University, Saint Louis, MO, United States

(ACMCIP Abstract)

8:15 a.m.

705

USE OF MICROARRAY AND REAL-TIME RT-PCR TO EVALUATE THE GENE EXPRESSION PATTERNS OF THE L3 AND L4 STAGES OF THE FILARIAL PARASITE *BRUGIA MALAYI*

Natalia Grob[1], **Wen Li[1]**, Seth D. Crosby[2], Steven A. Williams[1]
[1]Smith College, Clark Science Center, Northampton, MA, United States, [2]Washington University School of Medicine, St. Louis, MO, United States

(ACMCIP Abstract)

8:30 a.m.

706

EARLY EFFECTS OF DOXYCYCLINE ON *WOLBACHIA* AND PARASITE GENE EXPRESSION IN ADULT FEMALE *BRUGIA MALAYI*

Ramakrishna U. Rao[1], Seth D. Crosby[2], Makedonka Mitreva[2], Gary J. Weil[1]
[1]Washington University School of Medicine, St. Louis, MO, United States, [2]Genome Sequencing Center, Washington University School of Medicine, St. Louis, MO, United States

8:45 a.m.

707

DISTINCT HOST EXPRESSION SIGNATURES INDUCED BY CLOSELY RELATED FILARIAL PARASITES

Joseph Kubofcik, Leszek J. Klimczak, Thomas B. Nutman
National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

9 a.m.

708

IDENTIFICATION OF GENES THAT FUNCTION WITH CATHEPSIN L DURING EMBRYOGENESIS IN NEMATODES

Sarwar Hashmi, Jun Zhang, Sara Lustigman

Linsley F Kimball Res. Institute, New York, NY, United States

9:15 a.m.

709

PARASITE-DERIVED LYMPHANGIOGENIC MOLECULES: PUTATIVE ROLE IN MEDIATING THE LYMPHATIC DYSFUNCTION SEEN IN FILARIAL LYMPHEDEMA

Sasisekhar Bennuru, Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

9:30 a.m.

710

IMMUNIZATION WITH EARLY L3 ES ALTERS *BRUGIA PAHANGI* MIGRATION IN GERBILS

Ginger A. Robertson, Sharon Chrigwin, Sharon U. Coleman, **Thomas R. Klei**

Louisiana State University, Baton Rouge, LA, United States

Exhibit Hall Open

International Level

Wednesday, November 15 9:30 a.m. – 10:30 a.m.

Coffee Break

International Level

Wednesday, November 15 9:45 a.m. – 10:15 a.m.

Poster Session C Setup

International and Skyline Levels

Wednesday, November 15 9:45 a.m. – 10:15 a.m.

Poster Session C Viewing

International and Skyline Levels

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

Scientific Session 91

Intestinal and Tissue Helminths II: Echinococcus

International 5/6

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

CHAIR

Andrew Hemphill

University of Berne, Berne, Switzerland

Peter Kern

University of Ulm, Ulm, Germany

10:15 a.m.

THE HOST-PARASITE RELATIONSHIP IN *ALVEOLAR ECHINOCOCCOSIS*: NOVEL FINDINGS ON AN OLD DISEASE

Andrew Hemphill

University of Bern Institute of Parasitology, Bern, Switzerland

10:30 a.m.

711

CYSTIC AND ALVEOLAR *ECHINOCOCCOSIS* TRANSMISSION AND RISK FACTORS IN NINGXIA HUI AUTONOMOUS REGION OF CHINA: CURRENT SITUATION AND EVOLUSION

Yu R. Yang[1], Philip S. Craig[2], Tao Sun[3], Gail M. Williams[4], Dominique A. Vuitton[5], Patrick Giraudoux[5], Malcolm K. Jones[6], Donald P. McManus[6]

[1]Ningxia Medical College, Yinchuan City, China, [2]Cestode Zoonoses Research Group, Bioscience Research Institute and School of, Salford, United Kingdom, [3]Ningxia Medical College, Yinchuan City, Ningxia Hui Autonomous Region, China, [4]School of Population Health, University of Queensland, Brisbane, Australia, [5]WHO Collaborating Centre for Prevention and Treatment of Human Echinococcosis, University de Franche-Comte, Besancon, France, [6]Queensland Institute of Medical Research, Brisbane, Australia

10:45 a.m.

712

CYSTIC *ECHINOCOCCOSIS* IN FAMILIES AND NEIGHBORS OF PATIENTS RECENTLY DIAGNOSED WITH CE

Saul J. Santivañez[1], Mary L. Rodriguez[1], Javier A. Bustos[1], Silvia Rodriguez[1], Juan G. Aguinaga[2], Armando E. Gonzales[3], Robert H. Gilman[4], Hector H. Garcia[1], For the Cysticercosis Working Group in Peru[5]

[1]Cysticercosis Unit, Instituto Especializado de Ciencias Neurologicas, Lima, Peru, [2]School of Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, [3]School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, [4]Department of International Health, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, [5]Universidad Peruana Cayetano Heredia, Lima, Peru

11 a.m.

713

IDENTIFICATION OF NEW TREATMENT OPTIONS WITH PARASITOSTATIC AND PARASITOCIDAL POTENTIAL AGAINST *ECHINOCOCCUS MULTILOCULARIS* LARVAE

Stefan Reuter, Burkhard Manfras, Marion Merkle, Georg Härter, Peter Kern

University Hospital Ulm, Ulm, Germany

11:15 a.m.

714

PREVALENCE, INCIDENCE AND SERO-REVERSION OF CYSTIC *ECHINOCOCCOSIS* (CE) IN THE HIGHLAND PERUVIAN COMMUNITIES USING CHEST X-RAY, ULTRASOUND AND EITB TEST

Cesar M. Gavidia[1], Armando Gonzalez[2], Luis Lopera[2], Eduardo Barron[2], Berenice Ninaquispe[2], Hector H. Garcia[3], Silvia Rodriguez[3], Manuela Verastegui[4], Carmen Calderon[2], Robert H. Gilman[5], Alejandro Chabalgoity[6]

[1]San Marcos University, Veterinary School, Chaclacayo, Lima, Peru, [2]San Marcos University, Veterinary School, Lima, Peru, [3]Instituto de Ciencias Neurologicas, Lima, Peru, [4]Universidad Peruana Cayetano Heredia, Lima, Peru, [5]The Jonhs Hopkins University, Bloomberg School of Public Health, Baltimore, MD, United States, [6]Universidad de la Republica, Facultad de Medicina, Montevideo, Uruguay

11:30 a.m.

715

LINKING LANDSCAPE ECOLOGY AND *ECHINOCOCCUS MULTILOCULARIS* TRANSMISSION IN CHINA

D. Pleydell[1], F. Raoul[1], A. Vaniscotte[1], P. Torgerson[2], F. M. Danson[3], Q. Wang[4], J. Qiu[4], P. S. Craig[3], P. Giraudoux[1]

[1]Université de Franche-Comté, Besançon, France, [2]Universität Zürich, Zurich, Switzerland, [3]University of Salford, Greater Manchester, United Kingdom, [4]Sichuan Provincial Center for Disease Control and Prevention, Chengdu, China

11:45 a.m.

716

***ECHINOCOCCOSIS* TRANSMISSION IN EASTERN KAZAKHSTAN AND NOMADIC TIBETAN COMMUNITIES**

Paul Torgerson

University of Zurich, Zurich, Switzerland

Symposium 92

Impact of Genetic Diversity on Malaria Vaccine Efficacy

Copenhagen/Stockholm/Amsterdam

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

As with other pathogens (e.g. HIV, *Streptococcus pneumoniae*, and influenza virus), malaria vaccine development is complicated by genetic diversity in vaccine candidate antigens. Will malaria vaccines based on one or a few parasite clones will provide allele-restricted efficacy or more universal protection. Speakers will present theoretical models of natural immune selection pressure and vaccine-induced selection and implications for vaccine testing and design; genotyping results and measures of allele-specific efficacy and selection from two recent malaria vaccine trials; and longitudinal population genetics and molecular evolutionary studies from a malaria vaccine site and implications for vaccine testing and design.

CHAIR

Christopher V. Plowe

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

Ananias Escalante

Arizona State University, Tempe, AZ, United States

10:15 a.m.

INTRODUCTION

Christopher Plowe

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

10:20 a.m.

GENETIC DIVERSITY IN *PLASMODIUM FALCIPARUM* AND NATURAL AND VACCINE-INDUCED IMMUNITY

Ananias A. Escalante

Arizona State University, Tempe, AZ, United States

10:45 a.m.

RTS,S/AS02A MALARIA VACCINE DOES NOT INDUCE SELECTION OF PARASITES ENCODING DIVERGENT CSP T-CELL EPITOPES AND REDUCES THE GENOTYPIC MULTIPLICITY OF *PLASMODIUM FALCIPARUM* INFECTION

Colin Sutherland

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

11:10 a.m.

DYNAMICS OF POLYMORPHISM IN MALARIA VACCINE ANTIGENS OVER THREE YEARS AT A MALARIA VACCINE TESTING SITE IN MALI: IMPLICATIONS FOR VACCINE EFFICACY

Shannon Takala

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

11:35 a.m.

ALLELIC DIVERSITY AND COMPLEXITY OF *P. FALCIPARUM* INFECTION IN CHILDREN IMMUNIZED WITH THE FMP1 MEROZOITE SURFACE PROTEIN -1 (3D7 STRAIN) VACCINE IN WESTERN KENYA

Christian Ockenhouse

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

Symposium 93

Immunopathology of Dengue Hemorrhagic Fever and Implications for Dengue Vaccine Clinical Trials

Marquis 3

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

This symposium is designed to review and update progress in the effort to identify clinical, virologic and immunologic risk factors in the development of dengue hemorrhagic fever and the implications of these studies on the design of vaccine clinical trials. The speakers will focus on four major goals of dengue research: (1) identification of early clinical markers for dengue hemorrhagic fever; (2) the role of pre-existing dengue virus immunity on the immunopathogenesis of dengue hemorrhagic fever; (3) the implications of flavivirus cross-reactive antibodies on dengue diagnostics and (4) the implications of all of the above on the design and implementation of dengue vaccine clinical trials.

CHAIR

Sharone Green

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

Timothy P. Endy

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

10:15 a.m.

CLINICAL FINDINGS IN DENGUE HEMORRHAGIC FEVER

Sirpen Kalayanarooj

Queen Sirikit National Institute for Child Health, Bangkok, Thailand

10:25 a.m.

CLINICAL FINDINGS IN DENGUE HEMORRHAGIC FEVER

Robert V. Gibbons

Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

10:40 a.m.

IMMUNOPATHOGENESIS OF DENGUE HEMORRHAGIC FEVER

Sharone Green

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

11:05 a.m.

STATUS OF SEROLOGIC TESTING IN DENGUE DIAGNOSIS

Timothy P. Endy

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

11:30 a.m.

CONSIDERATIONS FOR DENGUE VACCINE CLINICAL TRIALS

Bruce Innis

GlaxoSmithKline Biologicals, King of Prussia, PA, United States

Scientific Session 94

Malaria — Artemisinin Combination Therapy

Marquis 4

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

CHAIR

Nick Anstey

Menzies School of Health Research, Casuarina, Darwin, Australia

Sarah Staedke

Makerere University-University of California San Francisco, Kampala, Uganda

10:15 a.m.

717

A RANDOMIZED LONGITUDINAL CLINICAL TRIAL OF COMBINATION ANTIMALARIAL THERAPY IN A COHORT OF UGANDAN CHILDREN

Grant Dorsey[1], Sarah G. Staedke[1], Denise Njama-Meya[2], Tamara D. Clark[1], Bridget Nzarubara[2], Catherine Maiteki[2], Moses R. Kamya[2], Philip J. Rosenthal[1]

[1]University of California San Francisco, San Francisco, CA, United States, [2]Makerere University, Kampala, Uganda

10:30 a.m.

718

ANTIMALARIAL ARTEMISIN-BASED COMBINATION TREATMENTS (ACTS): CURRENT STATUS IN WEST AND CENTRAL AFRICA WITH RESPECT TO ACCESS AND MONITORING DRUG USE AND EFFECTS

Pascal Millet[1], Collins Sayang[2], Alexandre Manirakiza[2], Laurence Thillier[2], Revati Phalkey[2], Joanna Zwetyenga[2], Nicole Vernazza-Licht[3], Denis Malvy[2], Piero L. Olliaro[2]

[1]Bordeaux University School of Medicine, Bordeaux, France, [2]Bordeaux University School of Medicine, Bordeaux, France, [3]DESMID - UMR 6012 Espace, Arles, France

10:45 a.m.

719

AMODIAQUINE PLUS ARTESUNATE VERSUS DIHYDROARTEMISININ-PIPERAQUINE FOR DRUG RESISTANT *P.FALCIPARUM* AND *P.VIVAX* IN PAPUA, INDONESIA

R. Armedy[1], L. Hotma[1], E. Kanagalem[2], R. Rumaseuw[3], EP Ebsworth[3], NM Anstey[4], E. Tjitra[1], RN Price[5]

[1]National Institute of Health Research and Development, Jakarta, Indonesia, [2]Dinas Kesehatan Kabupaten, Mimika, Indonesia, [3]International SOS, Timika, Indonesia, [4]Menzies School of Health Research, Darwin, Australia, [5]Oxford University, Oxford, United Kingdom

11 a.m.

720

ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF MODERATE MALARIA IN CHILDREN

Philip Sasi, Mike English, Simon Muchohi, Michael Makanga, Alexis Nzila, Brett Lowe, Gilbert Kokwaro

Kenya Medical Research Institute/Wellcome Trust Research Programme, Kilifi, Kenya

11:15 a.m.

721

PHARMACOVIGILANCE OF ANTIMALARIAL TREATMENT IN UGANDA

Hasifa Bukirwa[1], Rosalind Lubanga[2], Susan Nayiga[1], Allen Namagembe[1], Heidi Hopkins[3], Adoke Yeka[1], Ambrose Talisuna[4], Sarah Staedke[5]

[1]Uganda Malaria Surveillance Project, Kampala, Uganda, [2]Makerere University, Kampala, Uganda, [3]University of California, San Francisco, San Francisco, CA, United States, [4]Ministry of Health, Kampala, Uganda, [5]Makerere University-University of California San Francisco, Malaria Research Collaboration, Kampala, Uganda

11:30 a.m.

722

COMPARATIVE EFFICACY AND SAFETY OF TWO ARTEMISININ CONTAINING COMBINATION THERAPIES FOR ACUTE UNCOMPLICATED MALARIA IN NIGERIAN CHILDREN

Catherine O. Falade[1], **Sunday O. Ogundele**[1], Bidemi Yusuf[2], Tiencha C. Happi[2], Olusegun G. Ademowo[2]

[1]Department of Clinical Pharmacology, University College Hospital, Ibadan, Nigeria, [2]Institute of Advanced Medical Research and Training (IAMRAT), University of Ibadan, Ibadan, Nigeria

11:45 a.m.

723

AUDIOMETRIC CHANGES DURING TREATMENT OF *FALCIPARUM* MALARIA WITH ARTEMISININ CONTAINING COMBINATIONS IN NIGERIAN CHILDREN: A PRELIMINARY REPORT

Catherine O. Falade[1], Onyekwere G. Nwaorgu[2], Oyedunni Arulogun[3], Sunday Ogundele[1], Wemimo Osisanya[4]

[1]Clinical Pharmacology Department, University College Hospital, Ibadan, Nigeria, [2], Department of Otolaryngology, University College Hospital, Ibadan, Nigeria, [3]Health Promotion and Education, Faculty of Public Health, University of Ibadan, Ibadan, Nigeria, [4]Department of Otolaryngology, University College Hospital, Ibadan, Nigeria

Symposium 94A

Getting In-Zinc: A Discussion of Zinc Supplementation to Combat Diarrheal and Other Infectious Diseases

International 4

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

Zinc supplementation is a powerful therapeutic tool in managing a long list of illnesses. Dietary zinc supplementation may reduce morbidity due to infectious diseases such as pneumonia, diarrhea and malaria. With the large and consistent effects of zinc supplementation on the incidence and severity of infections, an effect on child mortality is likely. Other factors may challenge these findings, such as severe malnutrition. This symposium will bring together researchers and clinicians in the field to discuss the use of zinc in regions throughout the world and its effects on the clinical course of infectious diseases. The experts will also address the use of zinc in conjunction with therapies such as ORS.

CHAIR

Blair Palmer

Institute for OneWorld Health, San Francisco, CA, United States

Victoria Hale

Institute for OneWorld Health, San Francisco, CA, United States

10:15 a.m.

THE RATIONALE FOR THE USE OF ZINC IN TREATMENT AND PREVENTION OF PNEUMONIA

W. Abdullah Brooks

International Centre for Diarrheal Disease Research, Bangladesh (ICDDR,B): Centre for Health & Population Research, Dhaka, Bangladesh

10:40 a.m.

MECHANISM(S) OF ZINC AS AN ANTI-DIARRHEAL AGENT

Henry Binder

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

11:05 a.m.

ROLE OF ZINC IN PREVENTION AND TREATMENT OF DIARRHEA AND OTHER INFECTIOUS DISEASES

Shinjini Bhatnagar

All India Institute of Medical Sciences, Ansari Nagar, New Delhi, India

11:40 a.m.

COMMUNITY UPTAKE OF ZINC SUPPLEMENTS FOR THE TREATMENT OF DIARRHEA IN AFRICA

Peter John Winch

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

Symposium 95

The Future of National Institutes of Health Funding for New Investigators — A Panel Discussion II

Marquis 1

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

CHAIR

Ulrike G. Munderloh

University of Minnesota, St. Paul, MN, United States

10:15 a.m.

RECAP OF PRESENTATIONS AND DISCUSSIONS IN SESSION I

Abdu Azad

University of Maryland, Baltimore, MD, United States

10:40 a.m.

EFFORTS TO HELP NEW INVESTIGATORS: A SCIENTIFIC REVIEW ADMINISTRATOR'S PERSPECTIVE

John C. Pugh

National Institutes of Health/Center for Scientific Review, Bethesda, MD, United States

11:05 a.m.

WHY GRANT APPLICATIONS FROM NEW INVESTIGATORS FAIL: PERSPECTIVES OF THE STUDY SECTION CHAIR

Michael Strand

University of Georgia, Athens, GA, United States

11:30 a.m.

PANEL DISCUSSION: CONCLUSION AND DRAFT CONSENSUS RECOMMENDATION FOR CONSIDERATION BY NATIONAL INSTITUTES OF HEALTH

Scientific Session 96

Mosquitoes – Vector Biology – Epidemiology II

Marquis 2

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

CHAIR

Ken E. Olson

Colorado State University, Fort Collins, CO, United States

Thomas W. Scott

University of California, Davis, CA, United States

10:15 a.m.

724

ANALYSIS OF REPRODUCTIVE BARRIERS BETWEEN THE MOLECULAR FORMS OF *ANOPHELES GAMBIAE*

Abdoulaye Diabate[1], Roch Dabire[2], Ali Ouari[2], Niama Millogo[2], Tovi Lehmann[1]

[1]Laboratory of Malaria and Vector Research/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, [2]Institut de Recherche en Sciences de la Santé/Centre Muraz, Bobo-Dioulasso, Burkina Faso

10:30 a.m.

725

UNDERSTANDING THE ROLE OF RNA INTERFERENCE IN ARBOVIRUS-VECTOR INTERACTIONS

Ken E. Olson, Irma Sanchez-Vargas, Alexander W. Franz

Colorado State University, Fort Collins, CO, United States

(ACMCIP Abstract)

10:45 a.m.

726

AGE-STRUCTURE OF *AEDES AEGYPTI* POPULATIONS AND INTRA-ANNUAL VARIATION IN DENGUE TRANSMISSION

Thomas W. Scott[1], Benjamin Gerade[2], Laura C. Harrington[3], James W. Jones[4], John D. Edman[1], Sangvorn Kitthawee[5], Sharon L. Minnick[1], John M. Clark[6]

[1]University of California, Davis, CA, United States, [2]University of Massachusetts, Amherst, MA, United States, [3]Cornell University, Ithaca, NY, United States, [4]Armed Forces Research Institute for Medical Sciences (AFRIMS), Bangkok, Thailand, [5]Mahidol University, Bangkok, Tonga, [6]University of Massachusetts, Amherst, MA, United States

11 a.m.

727

ENHANCEMENT OF *AEDES AEGYPTI* VECTORIAL CAPACITY BY VIRULENT DENGUE VIRUSES

Justin R. Anderson, Rebeca Rico-Hesse

Southwest Foundation for Biomedical Research, San Antonio, TX, United States

11:15 a.m.

728

A FIRST RESOLVED PHYLOGENY OF THE *CULEX PIPIENS* COMPLEX: MAIN SPECIES, SUBSPECIES, AND FORMS

Dina M. Fonseca, Carolyn M. Bahnck

Academy of Natural Sciences, Philadelphia, PA, United States

11:30 a.m.

729

VARIATION IN VECTOR COMPETENCE FOR DENGUE 2 VIRUS AMONG COLLECTIONS OF *AEDES AEGYPTI* FROM THE YUCATAN AND VERA CRUZ REGIONS OF MEXICO

Scott A. Bernhardt[1], William C. Black[1], Barry J. Beaty[1], Michael F. Antolin[1], Ken E. Olson[1], Jose A. Farfan-Ale[2], Ildefonso Fernandez-Salas[3], Carol D. Blair[1]

[1]Colorado State University, Fort Collins, CO, United States, [2]Universidad Autonoma de Yucatan, Merida, Mexico, [3]Universidad Autonoma de Nuevo Leon, Monterrey, Mexico

11:45 a.m.

730

DOES WEST NILE VIRUS INFECTION DECREASE *CULEX TARSALIS* FITNESS?

Linda M. Styer, Mark Meola, Laura D. Kramer

New York State Department of Health, Slingerlands, NY, United States

Symposium 97

Bridging Pathogenesis and Pathology in Malaria: Vaccine Targets, Host-Pathogen Interactions and Anemia

Supported with funding from the Burroughs Wellcome Fund

Hilton Hotel – Grand Salon A

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

Linking parasite genomics and biology to disease pathologies and vaccines remains a frontier in malaria. This has created great need for broad, integrated perspectives to understand the complexities of pathogenic mechanisms, acute and chronic disease pathologies and treatment modalities. This symposium will bring together recent studies in leading malaria vaccine targets in non-human primate models, molecular interactions of parasite proteins that target host cells and correlates of severe disease pathology such as anemia, to integrate basic research approaches with clinical disease and the development of therapeutics.

CHAIR

Kasturi Haldar

Northwestern University, Chicago, IL, United States

Carole A. Long

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

10:15 a.m.

INTRODUCTION

Kasturi Haldar

Northwestern University, Chicago, IL, United States

10:20 a.m.

MALARIA PARASITE PROTEINS IN ERYTHROCYTE ADHESION, INVASION AND DYSERYTHROPOIESIS

Anthony A. Holder

National Institute of Medical Research, London, United Kingdom

10:45 a.m.

PERSPECTIVES ON HUMAN ANEMIAS IN GENETIC DISORDERS AND MALARIA INFECTION

Mohandas Narla

New York Blood Center, New York, NY, United States

11:10 a.m.

DEVELOPMENT OF MALARIA VACCINES: TARGETS AGAINST INFECTION AND DISEASE PATHOLOGIES SUCH AS ANEMIA

Carole Long

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

11:35 a.m.

MALARIAL ANEMIA: INSIGHTS FROM MODEL SYSTEMS

Mary Stevenson

McGill University and Health Center Research Institute, Montreal, QC, Canada

Scientific Session 98

Schistosomiasis II — Molecular Biology

Hilton Hotel – Grand Salon B

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

CHAIR

Eric Loker

University of New Mexico, Albuquerque, NM, United States

Tim Yoshino

University of Wisconsin-Madison, Madison, WI, United States

10:15 a.m.

731

ROLE OF SPHINGOMYELIN IN PREVENTING ACCESS OF ANTIBODIES TO LUNG STAGE SCHISTOSOMULA SURFACE MEMBRANE ANTIGENS

Rashika A. El Ridi, Hatem A. Tallima

Faculty of Science, Cairo University, Cairo, Egypt

(ACMCIP Abstract)

10:30 a.m.

732

EXPRESSION OF FUCOSYLATED AND NON-FUCOSYLATED GLYCAN EPITOPES IN MIRACIDIA AND SPOROCYSTS OF *SCHISTOSOMA MANSONI*

Nathan A. Peterson[1], Cornelis H. Hokke[2], Deelder M. André[2], Timothy P. Yoshino[1]

[1]University of Wisconsin-Madison, Madison, WI, United States, [2]Leiden University Medical Center, Leiden, The Netherlands

(ACMCIP Abstract)

10:45 a.m.

733

***SCHISTOSOMA MANSONI* AND *SCHISTOSOMA RODHAINI* IN WESTERN KENYA: A STUDY OF SPECIES BOUNDARIES**

Michelle L. Steinauer[1], Gerald M. Mkoji[2], Eric S. Loker[1]

[1]University of New Mexico, Department of Biology, Albuquerque, NM, United States, [2]Centre for Biotechnology Research and Development, Kenya Medical Research Institute, Nairobi, Kenya

11 a.m.

734

SURROGATE ESTIMATES OF SCHISTOSOME INFECTION INTENSITY ARE WAY OFF THE MARK

Thomas M. Kariuki[1], Alan Wilson[2], Govert Van Dam[3], Patricia Coulson[1], Idle Farah[1]

[1]Institute of Primate Research, Nairobi, Kenya, [2]Department of Biology, University of York, United Kingdom, [3]Department of Parasitology, Leiden University Medical Centre, Leiden, The Netherlands

(ACMCIP Abstract)

11:15 a.m.

735

LIVER FIBROSIS ASSOCIATED WITH EXPERIMENTAL *FASCIOLA HEPATICA* INFECTION: *IN VIVO* AND *IN VITRO* STUDIES

Luis A. Marcos[1], Angelica Terashima[2], Pedro Yi[3], Rosangela Teixeira[4], Javier Cubero[1], Carlos Alvarez[1], Marco Canales[2], Patricia Herrera[5], Eduardo Gotuzzo[2], Jose R. Espinoza[5], Scott L. Friedman[1], Effsevia Albanis[1]

[1]Liver Disease Center, Mount Sinai School of Medicine, New York, NY, United States; Institute of Tropical Medicine Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, [2]Institute of Tropical Medicine Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Facultad de Veterinaria y Zootecnia, Universidad Peruana Cayetano Heredia, Lima, Peru, [4]School of Medicine/ IAG-Federal University of Minas Gerais, Minai Gerais, Brazil, [5]Laboratorios de Investigación y Desarrollo, Universidad Peruana Cayetano Heredia, Lima, Peru

(ACMCIP Abstract)

11:30 a.m.

736

TOWARDS SCHISTOSOMIASIS TRANSMISSION CONTROL AND ELIMINATION: CAN SNAIL PREPATENT INFECTION RATE SERVE AS AN INDICATOR OF RESIDUAL TRANSMISSION POTENTIAL?

Charles H. King[1], Ibrahim Abassi[2], Robert F. Sturrock[3], Eric M. Muchiri[4], Curtis Kariuki[4], Joseph Hamburger[2]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Hebrew University of Jerusalem, Jerusalem, Israel, [3]Formerly London School of Hygiene and Tropical Medicine, London, United Kingdom, [4]Division of Vector Borne Diseases, Nairobi, Kenya

11:45 a.m.

737

LOCAL VARIATIONS IN *SCHISTOSOMA HAEMATOBIUM* TRANSMISSION IN MSAMBWENI, KENYA

Julie A. Clennon[1], Peter L. Mungai[2], Eric M. Muchiri[3], Charles H. King[2], Uriel Kitron[1]

[1]University of Illinois, Urbana, IL, United States, [2]Center for Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States, [3]Division of Vector Borne Diseases, Ministry of Health, Nairobi, Kenya

Symposium 99

A Site-Specific Antimalaria Intervention in Sub-Saharan Africa: The Bioko Project

Hilton Hotel – Grand Salon C

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

This symposium reviews the design, implementation, and outcomes of a comprehensive antimalaria intervention, including indoor residual spraying, on Bioko Island, Equatorial Guinea. Talks will cover operational, parasitological, entomological and clinical aspects of this program.

CHAIR

Andrew Spielman

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

10:15 a.m.

EFFECT OF INDOOR RESIDUAL SPRAYING ON THE FORCE OF MALARIA TRANSMISSION

Brian Sharp

Medical Research Council of South Africa, Durban, South Africa

10:40 a.m.

EVALUATION OF THE EFFECT OF A COMPREHENSIVE ANTIMALARIA INTERVENTION ON THE ENTOMOLOGICAL DETERMINANTS OF MALARIA RISK

Anthony Kiszewski

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

11:05 a.m.

APPLICATION OF SPATIAL ANALYSIS TO INVESTIGATE THE HETEROGENEITY OF IMPACT IN A COMPREHENSIVE ANTIMALARIA EFFORT

Immo Kleinschmidt

Medical Research Council of South Africa, Durban, South Africa

11:30 a.m.

EFFECT OF INTERMITTENT PREVENTIVE TREATMENT ON MALARIA-ATTRIBUTED MORBIDITY AND MORTALITY

Luis Benavente

Medical Care Development Inc., Silver Spring, MD, United States

Symposium 100

Challenges Ahead: R&D of New Drugs for Sleeping Sickness

Hilton Hotel – Grand Salon D

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

Human African trypanosomiasis (HAT or sleeping sickness) is a life-threatening disease caused by *Trypanosoma brucei* parasites transmitted by tsetse flies. WHO estimates that between 300,000 and 500,000 people are infected by the disease in sub-Saharan Africa. The disease is fatal if left untreated. Currently available treatments for HAT are few and limited due to toxicity and lost efficacy in several regions. Treatment is stage-specific, with more toxic and more difficult-to-administer treatments for stage 2 disease. Few projects for improved treatments are currently in clinical development, and none has the potential to dramatically change either the treatment or control options for this disease. The only way to improve control is to develop innovative new drugs and diagnostics and ensure they are available to patients. The Drugs for Neglected Diseases initiative (DNDi) is a new product development partnership (PDP) committed to developing new treatments for this fatal disease. This symposium aims to review the opportunities and challenges ahead in the different phases of research and development of new drugs for sleeping sickness.

CHAIR

Els Torreele

Drugs for Neglected Diseases Initiative, Geneva, Switzerland

D. Miaka

National HAT Conrol Programme, Ministry of Health, Democratic Republic of the Congo

10:15 a.m.

INTRODUCTION

Els Torreele

Drugs for Neglected Diseases Initiative, Geneva, Switzerland

10:25 a.m.

CONTROLLING SLEEPING SICKNESS IN AFRICA — NEED FOR BETTER TOOLS

Pere Simmaro

World Health Organization/Neglected Tropical Diseases, Geneva, Switzerland

10:40 a.m.
REVIEW OF CURRENT DISCOVERY RESEARCH — MOST PROMISING AVENUES

Mike Barrett
Glasgow University, Glasgow, United Kingdom

10:55 a.m.
CURRENT DISEASE MODELS AND THEIR LIMITATIONS

Grace Murilla
Trypanosomiasis Research Council, Nairobi, Kenya

11:10 a.m.
OVERCOMING THE BLOOD-BRAIN-BARRIER

Sarah Thomas
King's College London, London, United Kingdom

11:25 a.m.
OVERCOMING DIFFICULTIES IN CLINICAL RESEARCH OF SLEEPING SICKNESS DRUGS

Miguel Kiasekoka
ICCT Instituto de Combate e de Controlo das Tripanossomiases, Angola, Bairro Ingombota, Angola

Symposium 101

Amebiasis: Epidemiology, Pathogenesis, Human Immunity and Clinical Detection

Hilton Hotel – Grand Salon E

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

Topics include the prevalence, clinical progression and diagnosis of amebic colitis and amebic liver abscess. This symposium will describe the community and human systemic manifestation of amebiasis in three endemic areas — Mexico, Vietnam and Bangladesh. The breath of the symposium will cover new advances related to the epidemiology of amebiasis: virulence of and human infection by *E. histolytica*, the pathogenesis of amebic colitis and amebic liver abscess, and the human immune response to intestinal colonization and active disease. The talks will tie together with a common theme of clinical diagnosis.

CHAIR
Joel F. Herbein
TechLab, Inc., Blacksburg, VA, United States

William A. Petri
University of Virginia, Charlottesville, VA, United States

10:15 a.m.
THE NATURAL HISTORY OF AMEBIASIS IN MEXICO

Cecilia Ximenez
National Autonomous University of Mexico, Mexico DF, Mexico

10:40 a.m.
VIRULENCE AND PATHOGENESIS OF AMEBIC COLITIS

Isaura Meza
Cinvestav-IPN, Col. San Pedro Zacatenco, Mexico

11:05 a.m.
EPIDEMIOLOGY AND PATHOGENESIS OF AMEBIC LIVER ABSCESS

Egbert Tannich
Berhard Nocht Institute for Tropical Medicine, Hamburg, Germany

11:30 a.m.
HUMAN IMMUNITY TO *E. HISTOLYTICA* INFECTION

Rashidul Haque
International Center for Diarrheal Disease Research, Bangladesh, Dhaka, Bangladesh

Exhibit Hall Open

International Level

Wednesday, November 15 Noon – 2:30 p.m.

Poster Session C/Light Lunch (#738–966)

Skyline Level—#738–854
International Level—#855–966

Wednesday, November 15 Noon – 1:30 p.m.

Arthropods/Entomology – Other

738
GENETIC VARIABILITY, POPULATION STRUCTURE AND PHYLOGEOGRAPHY OF ARGENTINIAN AND OTHER SOUTHAMERICAN *TRIATOMA INFESTANS* POPULATIONS BASED ON *COI*

Romina V. Piccinali[1], Paula L. Marcet[1], François Noireau[2], Ricardo E. Gürtler[1], Uriel Kitron[3], Ellen M. Dotson[4]
[1]University of Buenos Aires, Buenos Aires, Argentina, [2]Instituto Oswaldo Cruz; Institut de Recherche pour le Développement, Rio de Janeiro, Brazil, [3]University of Illinois, Urbana, IL, United States, [4]Centers for Disease Control and Prevention, Division of Parasitic Diseases, Entomology Branch, Chamblee, GA, United States

739
EFFECTIVENESS OF COMMUNITY-BASED SELECTIVE INSECTICIDE SPRAYING ON REINFESTATION BY *TRIATOMA INFESTANS* IN NORTHWESTERN ARGENTINA

María C. Cecere[1], Gonzalo M. Vazquez-Prokopec[1], Ricardo E. Gürtler[1], Uriel Kitron[2]
[1]University of Buenos Aires, Buenos Aires, Argentina, [2]University of Illinois, Urbana, IL, United States

740
TICK ACTIVITY DURING 2005-2006 ON THE TEXAS A&M INTERNATIONAL CAMPUS (WEBB COUNTY, TEXAS)

Josue Zavala, Fernando Quintana, David L. Beck
Texas A&M International University, Laredo, TX, United States

741

A LONGITUDINAL STUDY OF THE SAND FLY POPULATION IN BARAOULI, MALI

Constance Souko Sangare[1], **Sibiry Samake[1]**, Ibrahim Sissoko[1], cheick Amadou Coulibaly[1], Seydou Doumbia[1], Sekou F Traore[1], Jennifer M Anderson[2], Jesus G Valenzuela[2], Phillip Lawyer[3], Shaden Kamhawi[3]

[1]Malaria Research and Training Center, Bamako, Mali, [2]National Institute of Allergy and Infectious Diseases/Laboratory of Malaria and Vector Research, Rockville, MD, United States, [3]National Institute of Allergy and Infectious Diseases/Laboratory of Parasitic Diseases, Bethesda, MD, United States

Bacteria – Diarrheal Diseases/Mucosal Immunity

742

CASE REPORT OF *VIBRIO CHOLERAE* ASSOCIATED WITH SEVERE GASTROENTERITIS IN A US TRAVELER

Adnan A. Jabbar, Imtiaz Khan, Tabassum Yasmin, Getachew Feleke

Nassau University Medical Center, Department of Infectious Diseases, East Meadow, NY, United States

743

THE CARRIAGE OF ENTERIC PATHOGENS BY DOMESTIC COCKROACHES IN AN URBAN AREA OF NORTH QUEENSLAND, AUSTRALIA

Wayne Melrose, Christine Cooney, Richard Speare

James Cook University, Townsville, Australia

Bacteria – Respiratory Infections

744

MYCOBACTERIUM AVIUM COMPLEX PULMONARY NODULE: THE MIMICKER OF MALIGNANCY

Deborah Asnis, Rick Conetta, **Diana Elish**, Adam Wellikoff, Christos Iakovou, Farida Chaudhri, Vincent Puccia

Flushing Hospital Medical Center, Flushing, NY, United States

745

THE IMPACT OF TUBERCULOSIS AND CANCER IN THE ASIAN COMMUNITY

Deborah Asnis, Kialing Perez, **Tariq A. Khan**, Rick Conetta, Chris Iakovou, George Haralambou

Flushing Hospital Medical Center, Flushing, NY, United States

Bacteria – Systemic Infections

746

IN VITRO AND *IN VIVO* MODELS FOR THE INVESTIGATION OF PROTECTIVE IMMUNITY AGAINST LEPTOSPIRA INTERROGANS

Daniel Bourque[1], Zulma Pachas Trujillo[2], Manuel Fasabi Espinar[2], Raul Chuquiyauri[3], Joseph M. Vinetz[4]

[1]Albert Einstein College of Medicine, La Jolla, CA, United States, [2]Universidad de las Amazonas Peruana, Iquitos, Peru, [3]Universidad Peruana Cayetano Heredia, Lima, Peru, [4]University of California San Diego, La Jolla, CA, United States

747

EVALUATION OF *AOTUS NANCYMAE* AS AN ANIMAL MODEL FOR *BARTONELLA BACILLIFORMIS* INFECTION

David E. Bentzel

Naval Medical Research Center Detachment, Lima, Peru

748

LATENT RISK OF REEMERGENCE EPIDEMIC TYPHUS IN MEXICO

Virginia E. Alcántara

Ministry of Health Mexico City, Mexico, Mexico

Bacteria – Vaccines

749

INDUCTION OF MUCOSAL IMMUNE RESPONSE TO *MYCOBACTERIUM TUBERCULOSIS* USING MICROSPARTICLE ENCAPSULATED WHOLE DEAD CELL ANTIGENS

Kwame Yeboah, Martin J. D'Souza

Mercer University, Atlanta, GA, United States

(ACMCIP Abstract)

Cestodes – Echinococcosis/Hytatid Disease

750

USE OF *SYSTEMIC SCOLICIDALS* [BEZIMEDAZOLE] IN HYDATD CYST SURGERY

Dhafir Dawood Sulieman[1], Ali Hassoun[2], **Ameer Hassoun[3]**

[1]Department of Surgery, Medical College, Al-Mustanstryah, Baghdad, Iraq, [2]Alabama Infectious Diseases Center, Huntsville, AL, United States, [3]Harlem Hospital, New York, NY, United States

751

DISEASE MANAGEMENT IN ALVEOLAR ECHINOCOCCOSIS GUIDED BY PET-CT

Stefan Reuter, Beate Gruener, Norbert Blumstein, Sven Norbert Reske, Peter Kern

University Hospital Ulm, Ulm, Germany

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RISK FACTORS FOR CYSTIC ECHINOCOCCOSIS IN PERUVIAN PATIENTS

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GROUP A STREPTOCOCCAL DISEASE IN MALI: A PILOT STUDY

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GAMETOCYTAEMIA AFTER DRUG TREATMENT OF ASYMPTOMATIC *PLASMODIUM FALCIPARUM*

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A RANDOMIZED, INVESTIGATOR-BLINDED, MULTICENTER, PARALLEL-GROUP STUDY TO COMPARE EFFICACY, SAFETY AND TOLERABILITY OF ARTEMETHER — LUMEFANTRINE DISPERSIBLE TABLET FORMULATION VS. ARTEMETHER — LUMEFANTRINE 6-DOSE CRUSHED TABLETS IN THE TREATMENT OF ACUTE UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN INFANTS AND CHILDREN: AN INNOVATIVE DESIGN

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A HIGH PROPORTION OF SUSPECTED US CASES OF AVIAN INFLUENZA A (H5N1) HAVE HUMAN INFLUENZA A INFECTIONS

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MORTALITY AMONG CHILDREN ADMITTED TO A PEDIATRIC HOSPITAL IN BAMAKO, MALI

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SIMULTANEOUS DETECTION AND DIFFERENTIATION OF *CRYPTOSPORIDIUM PARVUM* AND *CRYPTOSPORIDIUM HOMINIS* BY USING TAQMAN® ASSAYS

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PANCREATIC CYSTADENOMA MIMICKING ECHINOCOCCAL CYST. A CASE REPORT

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CARDIAC ECHINOCOCCAL CYST: A CASE REPORT

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SENSITIVE LC-MS ASSAY FOR THE DETERMINATION OF THE ANTIMALARIAL PYRONARIDINE IN HUMAN BLOOD

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DETECTION OF *CRYPTOSPORIDIUM* SPP. ANTIGEN IN HUMAN FECAL SPECIMENS USING THE *CRYPTOSPORIDIUM II* ELISA TEST

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CELLULOSE ACETATE ELECTROPHORESIS (CAE) A VITAL TECHNIQUE IN LEISHMANIA DIAGNOSIS

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ENHANCEMENT OF ROUTINE HEALTH INFORMATION BY THE USE OF PERSONAL DIGITAL ASSISTANTS IN SOUTHERN TANZANIA

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BLOOD AGAR SUBSTITUTE IN GROWING LEISHMANIA

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(ACMCIP Abstract)

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CROSS REFERENCE BETWEEN CELLULOSE ACETATE ELECTROPHORESIS (CAE) AND POLYMERASE CHAIN REACTION (PCR) IN LEISHMANIA DIAGNOSIS

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FIRST DENGUE HEMORRHAGIC FEVER (DHF) OUTBREAK IN IQUITOS, PERU, 2004

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COLLEGE OF AMERICAN PATHOLOGY (CAP) AND ITS PROGRESS IN THE LEISHMANIA DIAGNOSIS

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CHARACTERISTIC FEATURES OF ANEMIA IN VISCERAL LEISHMANIASIS (KALA-AZAR)

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THE UTILITY OF HRP-2/P-LDH MALARIA RAPID DIAGNOSTIC TESTS IN SEMI-IMMUNE POPULATIONS OF SUB-SAHARA AFRICA

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PNEUMONIA ADVERSELY AFFECTS GROWTH IN CHILDREN

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EVALUATION OF ONE-YEAR SURVIVAL RATES OF CHILDREN WITH BURKITT'S LYMPHOMA IN TANZANIA AFTER CYCLOPHOSPHAMIDE MONOTHERAPY

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RAPID DIAGNOSTIC MALARIA TESTS FOR THE DIAGNOSIS OF MALARIA VERSES CLINICAL JUDGMENT

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A LITTLE SUGAR GOES A LONG WAY: TRAVELING WITH DIABETES

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A PHASE II, OPEN LABEL, STUDY OF THE SAFETY, TOLERABILITY, EFFICACY AND PHARMACOKINETICS OF INTRAVENOUS ARTESUNATE IN ADULTS WITH UNCOMPLICATED MALARIA

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GAMETOCYTE CLEARANCE TIME AND ARTEMISININ COMBINATION THERAPY FOR UNCOMPLICATED MULTIDRUG RESISTANT FALCIPARUM MALARIA IN VENEZUELA: PRELIMINARY RESULTS

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MALARIA PREVALENCE AMONG TRIO AMERINDIANS IN SOUTHERN SURINAME

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MONITORING ANTIMALARIAL DRUG RESISTANCE IN VENEZUELA: A SIMPLE APPROACH FOR DEVELOPING COUNTRIES

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TWO-DAYS MEFLOQUINE-ARTESUNATE COMBINATION THERAPY FOR UNCOMPLICATED MULTIDRUG RESISTANT FALCIPARUM MALARIA AMONG GOLD MINERS IN VENEZUELA

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EMERGING PATHOGENS, INCREASED SOCIAL INTERCONNECTIVITY AND DEMOGRAPHIC COLLAPSE IN BAJA CALIFORNIA (1697-1830)

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VENTRICULO-PERITONEAL SHUNTING IN THE MANAGEMENT OF HIV-ASSOCIATED CRYPTOCOCCAL MENINGITIS

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EFFECTS OF GLUTAMINE ALONE AND IN COMBINATION WITH ZINC AND RETINOL ON INTESTINAL BARRIER FUNCTION, DIARRHEAL DISEASES MORBIDITY AND GROWTH IN UNDERNOURISHED CHILDREN IN THE NORTHEAST OF BRAZIL

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POTENTIAL USE OF MULTIPLE FREQUENCY BIOIMPEDANCE FOR DIAGNOSIS AND MONITORING OF LYMPHATIC FILARIASIS LYMPHEDEMA

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BURDEN OF MALARIA IMPORTED CASES IN VENEZUELA DURING 2004-2005

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SEROSURVEY AGAINST *RICKETTSIA RICKETTSII* AMONG HEALTHY INDIVIDUALS OF IN VILLETA, COLOMBIA

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NUTRIKINE DYSREGULATION: A NEW PARADIGM FOR THE IMMUNODEFICIENCY OF MALNUTRITION

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A MYCOBACTERIUM BOVIS BRAIN ABSCESS IN A 34-YEAR OLD HISPANIC MALE WITH AIDS

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WHERE THERE ARE NO HEALTH POSTS: THE CHALLENGE OF COMMUNITY-DELIVERED INTRAVENOUS ANTIMONIAL THERAPY FOR LEISHMANIASIS IN NORTHEAST BRAZIL

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DETECTION OF HUMAN FECAL MARKER, *CRYPTOSPORIDIUM*, AND *GIARDIA* USING IMMUNOMAGNETIC SEPARATION IN CONTAMINATED WATER SAMPLES

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CONTROL OF CLONORCHIASIS REQUIRES REPEATED CHEMOTHERAPIES

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PERSISTENCE OF BACTEREMIA BY *BARTONELLA BACILLIFORMIS* POST TREATMENT WITH CLORANFENICOL, ANCASH — PERU

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MAGNITUDE OF THE FIRST OUTBREAK OF DENGUE FEVER IN THE DISTRICT OF COMAS, LIMA-PERU

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EUROPEAN MALARIA CONSULTANTS IN THE US

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ROLE OF HSP70 IN DENGUE VIRUS REPLICATIVE CYCLE

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VECTOR COMPETENCE FOR DENGUE 2 VIRUS IN WILD COLLECTIONS OF *AEDES AEGYPTI* FROM VENEZUELA

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CLINICAL AND MOLECULAR CHARACTERIZATION OF DENGUE PATIENTS COHORT IN RECIFE, BRAZIL FOR EPITOPE MAPPING AND IMMUNO PATHOGENESIS STUDIES

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INACTIVATION OF DENGUE VIRUS USING HIGH HYDROSTATIC PRESSURE (HHP)

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CHARACTERIZATION OF MICROVESICLES FROM IMMUNE CELLS INFECTED WITH DENGUE VIRUS

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(ACMCIP Abstract)

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PRIMARY HUMAN MYOBLAST ARE TARGETS FOR DENGUE VIRUS INFECTION

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TUMOR NECROSIS FACTOR-RELATED APOPTOSIS-INDUCING LIGAND (TRAIL) REDUCES DENGUE VIRAL LOAD IN HUMAN INFECTED CELLS

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QUASI SPECIES OF DENGUE RNA: MOLECULAR DISSECTION OF DENGUE VIRUS INFECTIONS IN MONOCYTES-DERIVED HUMAN DENDRITIC CELLS

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MULTIPLEX DENGUE TAQMAN ASSAY (DEN1-4) FOR THE DIAGNOSIS OF ACUTE DENGUE SECONDARY INFECTIONS

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SEROEPIDEMIOLOGY OF HOSPITALIZED DENGUE PATIENTS IN THE PHILIPPINES

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YUCATAN MINIATURE SWINE DEVELOP DENGUE VIREMIA AND ARE A POTENTIAL MODEL FOR DENGUE IMMUNOPATHOLOGY

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ACTIVATION OF COAGULATION AND FIBRINOLYSIS IN DENGUE VIRUS INFECTION: RELATION TO THE BLEEDING SYMPTOMS

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DENGUE-2 AND YELLOW FEVER VIRUSES INDUCE GENE EXPRESSION CHANGES IN THE MIDGUT OF THE DISEASE VECTOR, *AEDES AEGYPTI*

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DEVELOPMENT OF A DENGUE ELISA-BASED MICRO NEUTRALIZATION ASSAY

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HIDDEN TRANSMISSION OF DENGUE VIRUS IN KAOHSIUNG SCHOOL CHILDREN DURING 2004-2005 AFTER THE 2001-2003 LARGE-SCALE EPIDEMIC OF DENGUE/DENGUE HEMORRHAGIC FEVER IN TAIWAN

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Flaviviridae – Other

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DISTRIBUTION AND TISSUE TROPISMS OF THREE PHENOTYPICALLY DISTINCT YELLOW FEVER VIRUS STRAINS IN *AEDES AEGYPTI*

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A MULTIPLEXED REAL-TIME QUANTITATIVE RT-PCR ASSAY FOR ARTHROPOD-BORNE FLAVIVIRUSES

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Flaviviridae – West Nile

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HETEROLOGOUS INTERACTIONS OF WEST NILE VIRUS AND ST. LOUIS ENCEPHALITIS VIRUS: EFFECT ON REPLICATION AND VIRAL GROWTH KINETICS

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FURTHER CHARACTERIZATION OF A WEST NILE VIRUS SMALL PLAQUE VARIANT ISOLATED IN NEW YORK, 2000

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POST HURRICANE JEANNE MOSQUITO BORNE INFECTIOUS DISEASE SURVEILLANCE AND HUMAN WEST NILE VIRUS INFECTION IN HAITI IN 2004

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PERSISTENCE OF WEST NILE VIRUS IN EXPERIMENTALLY INOCULATED ANIMALS

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EFFICACY, DURATION, AND ONSET OF IMMUNITY OF A WEST NILE VIRUS CHIMERA VACCINE

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Helminths – Nematodes – Filariasis (Immunology)

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CHANGES IN GENE EXPRESSION PROFILES IN *BRUGIA MALAYI* L3 INDUCED BY CULTURE AND RADIATION

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(ACMCIP Abstract)

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VACCINATION WITH *ONCHOCERCA VOLVULUS* GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE (OV-GAPDH) USING THE MOUSE/*LITOMOSOIDES SIGMODONTIS* MODEL

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(ACMCIP Abstract)

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TISSUE MIGRATION OF *BRUGIA PAHANGI* THIRD STAGE INFECTIVE LARVAE: AN *IN VITRO* MODEL

Thomas R. Klei, Sharon R. Chirgwin, Ginger A. Robertson, Sharon U. Coleman

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MAJOR SPERM PROTEIN: A POTENTIAL TARGET FOR ONCHOCERCIASIS VACCINATION AND DETECTION

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(ACMCIP Abstract)

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ANTI-WSP IGG1 ANTIBODY RESPONSE PREDOMINATES IN CHRONIC LYMPHATIC FILARIASIS

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(ACMCIP Abstract)

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TEMPERATURE-INDUCED DIFFERENTIAL GENE EXPRESSION PATTERNS IN THIRD STAGE *BRUGIA MALAYI* LARVAE

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Helminths – Nematodes – Intestinal and Tissue Helminths

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CRYOPRESERVATION OF *A. CANINUM, A. CEYLANICUM* AND *N. AMERICANUS* INFECTIVE LARVAE AT -196ºC

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UNCIARIASIS IN PANAMA

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(ACMCIP Abstract)

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IMMUNODIAGNOSIS OF STRONGYLOIDIASIS: SCREEN WITH ELISA AND CONFIRM WITH IMMUNOBLOT USING A RECOMBINANT ANTIGEN

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(ACMCIP Abstract)

HIV

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DISSEMINATED HISTOPLASMOSIS IN AIDS PATIENTS IN GUATEMALA: PRELIMINARY RESULTS FROM A SYMPTOMATIC PATIENT COHORT

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IMPACT OF THERAPEUTIC REGIMEN FAILURE IN THE RESISTANCE TO ANTIRETROVIRAL DRUGS IN NORTHEST BRAZIL

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VALUE OF THE NEOPTERIN CONCENTRATION AND THE NPT/CD4 RATIO AS PROGNOSTIC MARKES OF AIDS IN HIV INFECTED PATIENTS

Dalis E. Mojica, Blas Armien, Juan A. Castillo, Migdalis Ortega, **Juan M. Pascale**

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HIGH LEVEL OF POLYMORPHISM IN THE *GAG* REGION OF THE B-SUBTYPE HIV-1 STRAINS FROM NORTHEASTERN VENEZUELA

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MOLECULAR CHARACTERIZATION OF *SHIGELLA* AND *PLASMODIUM FALCIPARUM* CO-OCCURRENCE IN HIV-1 SEROPOSITIVE NIGERIAN CHILDREN

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Kinetoplastida – Diagnosis and Treatment

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CROSS REFERENCE BETWEEN CELLULOSE ACETATE ELECTROPHORESIS (CAE) AND PLOYMERASE CHAIN REACTION (PCR) IN LEISHMANIA DIAGNOSIS

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BLOOD AGAR SUBSTITUTE IN GROWING LEISHMANIA

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DIAGNOSIS OF HUMAN BABESIOSIS USING SELDI PROTEINCHIP TECHNOLOGY

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ANALYSIS OF BIOMARKERS ASSOCIATED WITH CHAGAS DISEASE USING ANTISERA TO NOVEL BIOMARKER EPITOPES

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(ACMCIP Abstract)

Kinetoplastida – Epidemiology

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EVIDENCE FOR GENOTYPE-BY-SEX INTERACTION IN THE GENETICS OF SEROPOSITIVITY TO *TRYPANOSOMA CRUZI* IN A BABOON MODEL

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VIRULENCE AND IMMUNOLOGIC RESPONSE INDUCED BY A TYPE IIA NORTH AMERICAN ISOLATE OF *T. CRUZI* AS COMPARED TO THE TYPE I BRAZIL STRAIN

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Kinetoplastida – Molecular Biology and Immunology

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QUANTIFICATION OF EVOLUTIONARY CONSTRAINTS OF SELECTED LEISHMANIA ANTIGENS AND THEIR IMPLICATIONS FOR VACCINE DEVELOPMENT

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(ACMCIP Abstract)

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SHARED EPITOPES ON SURFACE OF *LEISHMANIA MAJOR RESPONSIBLE FOR VIRULANCE*

Alireza Khabiri, Farideh Bagheri, Zarintaj Valadkhani, Zohreh Aghighi, Naureh Hassan, Mehdi Assmar

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(ACMCIP Abstract)

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DESIGN AND CHARACTERIZATION OF MONOCLONAL ANTIBODIES TO DISTINGUISH BETWEEN MSP ISOFORMS FOUND ON THE SURFACE OF *LEISHMANIA CHAGASI*

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(ACMCIP Abstract)

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THE CHEMOKINE RECEPTOR CXCR3 IS NOT REQUIRED FOR HOST RESISTANCE TO MURINE VISCERAL LEISHMANIASIS

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(ACMCIP Abstract)

Malaria – Biology and Pathogenesis

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IDENTIFICATION OF NOVEL *PLASMODIUM KNOWLESI* AND *P. VIVAX* MEROZOITE PROTEINS

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ERYTHROCYTE INVASION BY *PLASMODIUM FALCIPARUM* MEROZOITES

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(ACMCIP Abstract)

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MODELING ANEMIA AND THROMBOCYTOPENIA IN RODENT AND PRIMATE MODELS OF SEVERE MALARIA

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PLASMODIUM FALCIPARUM SYNTAXIN HOMOLOGUES

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(ACMCIP Abstract)

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APICAL ORIENTED MEROZOITE PROTEINS WITH EGF-LIKE DOMAINS UPSTREAM FROM THE MSP-1 GENE ARE UNIQUELY EXPRESSED IN *P. VIVAX* AND *P. KNOWLESI*

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PROTEOMICS DEFINES SPECIFIC *PLASMODIUM VIVAX* AND PLASMODIUM KNOWLESI INFECTED ERYTHROCYTE MEMBRANE ANTIGENS

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FUNCTIONAL CHARACTERIZATION OF REFOLDED DBL1α DOMAIN OF *PLASMODIUM FALCIPARUM* ERTHROCYTE MEMBRANE PROTEIN-1

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(ACMCIP Abstract)

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DISSEMINATED INTRAVASCULAR COAGULATION IN A RHESUS MACAQUE EXPERIMENTALLY INFECTED WITH *PLASMODIUM COATNEYI*

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IMMUNO-ELECTRONMICROSCOPY OF MALARIA MEROZOITE INVASION INTO RED BLOOD CELLS

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CHARACTERIZATION OF *P. FALCIPARUM* MSP1-SPECIFIC MONOCLONAL ANTIBODIES WITH REGARDS TO REACTIVITY ON LIVE PARASITES, FINE SPECIFICITY, AND BIOLOGICAL FUNCTION

Elizabeth H. Duncan, Sara E. Michael, Evelina Angov, Elke S. Bergmann-Leitner, Jeffrey A. Lyon

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(ACMCIP Abstract)

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A DATABASE MANAGEMENT SYSTEM (DBMS) FOR MOTHER OFFSPRING MALARIA STUDY (MOMS)

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SERUM AND CEREBROSPINAL FLUID LEVELS OF INFLAMMATORY MARKERS AS PROGNOSTIC PREDICTORS OF CEREBRAL MALARIA MORTALITY IN GHANAIAN CHILDREN

Henry B. Armah[1], Nana Wilson[2], Kiantra I. Ramey[2], Stephanie E. Davis[2], Bismark Y. Sarfo[3], Andrew A. Adjei[4], Richard K. Gyasi[4], Yao Tettey[4], Edwin K. Wiredu[4], Jonathan K. Stiles[2]

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(ACMCIP Abstract)

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CD36-MEDIATED UPTAKE OF *P. FALCIPARUM*-INFECTED ERYTHROCYTES OCCURS VIA MACROPINOCYTOSIS

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(ACMCIP Abstract)

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ALTERED IMMUNE RESPONSE IN SEVERE MALARIAL ANEMIA IN CHILDREN

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INTERACTION OF *PLASMODIUM FALCIPARUM* ERYTHROCYTE MEMBRANE PROTEIN 3 WITH THE RED BLOOD CELL MEMBRANE SKELETON

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Malaria – Chemotherapy

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RELATIVE ADVANTAGES OF VARIOUS ARTESUNATE BASED COMBINATION THERAPIES (ACTS). A META-ANALYSIS

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RANDOMIZED CONTROLLED TRIAL COMPARING SULFALENE/PYRIMETHAMINE/AMODIAQUINE VERSUS ARTEMETHER/LUMEFANTRINE IN THE TREATMENT OF UNCOMPLICATED *FALCIPARUM* MALARIA IN MALI

Issaka Sagara, Daouda Minta, Mamady Kone, Abdoulbaki Diallo, Niawalou Dara, Ousmane Kante, Yahia T. Dicko, Moussa Sogoba, Mady Sissoko, Alassane Dicko, Ogobara K. Doumbo

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EFFECTS OF PYRIMETHAMINE-SULPHADOXINE, CHLOROQUINE PLUS CHLORPHENIRAMINE AND AMODIAQUINE PLUS PYRIMETHAMINE-SULPHADOXINE ON GAMETOCYTES DURING AND AFTER TREATMENT OF ACUTE, UNCOMPLICATED MALARIA IN CHILDREN

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THE EFFECTS OF ARTEMETHER-LUMEFANTRINE *VERSUS* AMODIAQUINE-SULFALENE-PYRIMETHAMINE ON THE HEPATOMEGALY ASSOCIATED WITH *PLASMODIUM FALCIPARUM* MALARIA IN CHILDREN

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STAGE-SPECIFIC SURVIVAL OF *PLASMODIUM FALCIPARUM* TREATED WITH ANTI-MITOCHONDRIAL DRUGS

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(ACMCIP Abstract)

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BLACKWATER FEVER IN CHILDREN DURING CEREBRAL MALARIA: THREE OBSERVATIONS IN BAMAKO

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Malaria – Diagnosis

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DEVELOPMENT OF QUANTITATIVE REAL-TIME PCR AS A SENSITIVE AND EFFECTIVE APPROACH FOR DETECTING PLASMODIUM-INFECTED HC-04 CELL LINE

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(ACMCIP Abstract)

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MOLECULAR DIAGNOSIS OF MIXED *PLASMODIUM* SPECIES AND SUB-CLINICAL MALARIA IN MINING REGIONS IN THE BOLIVAR STATE, VENEZUELA

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FIRST REPORT OF NATURAL *PLASMODIUM KNOWLESI* INFECTION IN WILD MACAQUES, THAILAND

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Malaria – Drug Development

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PRECLINICAL PHARMACOKINETICS AND METABOLISM OF GW308678, A SECOND GENERATION 4(1H)-PYRIDONE ANTI-MALARIAL MITOCHONDRIAL ELECTRON TRANSPORT INHIBITOR

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A SURVEY OF SYNTHETIC AND NATURAL PHYTOTOXIC COMPOUNDS AND PHYTOALEXINS AS POTENTIAL ANTIMALARIALS

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SUSCEPTIBILITY OF *PLASMODIUM FALCIPARUM* TO CHLOROQUINE IN THE MALARIA-ENDEMIC VILLAGE OF MISSIRA IN MALI USING THE WHO *IN VIVO* TEST AND SEQUENCING

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PRECLINICAL CARDIAC SAFETY PROFILE OF PIPERAQUINE PHOSPHATE AND CHLOROQUINE PHOSPHATE

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EVALUATING THE EFFECTS OF CHLOROQUINE AND AQ-13 ON CARDIAC QT INTERVAL

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IDENTIFICATION OF AROMATIC SULFONYLS AS INHIBITORS OF BETA-KETOACYL ACP SYNTHASE III (PFKASIII) IN *PLASMODIUM FALCIPARUM* FATTY ACID SYNTHESIS

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ORALLY ACTIVE ACRIDONES AS NOVEL AND POTENT ANTIMALARIAL CHEMOTYPES

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ASSESSMENT AND CONTINUED VALIDATION OF THE MSF ASSAY FOR USE IN MALARIA DRUG SCREENING

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STRUCTURE-ACTIVITY RELATIONSHIPS OF ORALLY ACTIVE ANTIMALARIAL ACRIDONES: SYNTHESIS, OPTIMIZATION, AND BIOLOGICAL ACTIVITY

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ESTABLISHMENT OF THIOPHENE SULFONAMIDES AS NOVEL INHIBITORS OF THE PLASMODIAL CYCLIN DEPENDENT PROTEIN KINASES (CDKS)

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Malaria – Drug Resistance

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COMPARISON OF DIFFERENT ACT'S FOR THE TREATMENT OF FALCIPARUM MALARIA IN CHILDREN IN KIGALI, RWANDA, AN AREA WITH HIGH SP RESISTANCE: AS+SP AND AS+SMP

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IN VITRO SUSCEPTIBILITY OF *PLASMODIUM FALCIPARUM* TO MONODESETHYLAMODIAQUINE, DIHYDROARTEMISININ AND QUININE IN AN AREA OF HIGH CHLOROQUINE RESISTANCE IN RWANDA

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PROSPECTIVE COMPARISON OF PLDH, HRP2 AND SYBR GREEN METHODS FOR *IN VITRO* ANTIMALARIAL DRUG EFFICACY TESTS

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CHLOROQUINE OR SULFADOXINE/PYRIMETHAMINE EFFICACY IN THE TREATMENT OF UNCOMPLICATED MALARIA IN BURKINA FASO: AN EVIDENCE FOR THE ANTIMALARIALS POLICY CHANGES

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P. FALCIPARUM INFECTION AMONG US MARINES DEPLOYED TO LIBERIA: COMPARISON OF MEFLOQUINE RESISTANCE PATTERNS TO ARCHIVED LIBERIA ISOLATES AND PREVIOUS STUDIES

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LOW EFFICACY OF AMODIAQUINE IN THE TREATMENT OF UNCOMPLICATED *P. FALCIPARUM* MALARIA IN THE PACIFIC COAST OF COLOMBIA

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PARTIAL CHARACTERIZATION OF AN ABCG HOMOLOGUE IN DRUG SENSITIVE AND RESISTANT LINES OF *PLASMODIUM YOELII*

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(ACMCIP Abstract)

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SIMULTANEOUS IDENTIFICATION OF *DHFR,DHPS,* AND *PFCRT* POLYMORPHISMS IN *PLASMODIUM FALCIPARUM* INFECTED SAMPLES FROM PAPUA NEW GUINEA

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Malaria – Epidemiology

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USING THE LIGASE DETECTION REACTION — FLUORESCENT MICROSPHERE ASSAY TO DETERMINE THE FOUR PREDOMINANT *P. FALCIPARUM* MSP-119 ALLELES IS FAST, CHEAP, AND ACCURATE COMPARED TO STANDARD DNA SEQUENCING

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ENVIRONMENTAL, SOCIAL AND BEHAVIORAL RISK FACTORS ASSOCIATED WITH HIGHLAND MALARIA IN WESTERN KENYA: A CASE-CONTROL STUDY

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THE EFFECT OF SMALL CHANGES IN SULFADOXINE-PYRIMETHAMINE EFFICACY ON THE BURDEN OF MALARIA IN A DISTRICT HEALTH CLINIC

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EPIDEMIOLOGICAL TREND OF MALARIA IN SUCRE STATE, VENEZUELA, FOR THE PERIOD 2000-2005

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PLASMODIUM FALCIPARUM AND *P. VIVAX* POPULATION AND WITHIN-HOST GENETIC DIVERSITY 10 YEARS AFTER THE PERUVIAN AMAZON MALARIA EPIDEMIC

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THE MALARIA-ATTRIBUTABLE FRACTION OF FEVER IN HEALTH FACILITIES IN FOUR AFRICAN CITIES

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CHARACTERIZATION OF *PLASMODIUM FALCIPARUM* POPULATIONS FROM EPIDEMIC PRONE SITES WITH VARYING TRANSMISSION PATTERNS IN A WESTERN KENYA HIGHLAND

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Malaria – Immunology

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THE ROLE OF VARIANT SURFACE ANTIGENS IN A MURINE MODEL OF PREGNANCY-ASSOCIATED MALARIA

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(ACMCIP Abstract)

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ANTIBODY RESPONSES TO MULTIPLE ANTIGENS OF *P. FALCIPARUM* PRE-ERYTHROCYTIC AND ERYTHROCYTIC PARASITE STAGES IN A COHORT OF YOUNG GHANAIAN CHILDREN

Ben Gyan[1], Daniel Dodoo[1], Gary Bryce[2], Abraham Oduro[3], Abraham Oduro[3], Nana Akosua Ansah[3], Thomas Anyorigiya[3], Kwadwo Asamoah Kusi[1], Helena Nartey[1], Helena Lamptey[1], Abraham Hodgson[3], Frank Atugubah[3], Francis Nkrumah[1], Bill Rogers[2], Kwadwo Koram[1]

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(ACMCIP Abstract)

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VALIDATION AND IMPLEMENTATION OF RHESUS IMMUNE PROFILING GENE EXPRESSION ASSAYS IN NON-HUMAN PRIMATE MODELS OF MALARIA

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CELL MEDIATED IMMUNITY ELICITED IN SEMI-IMMUNE ADULTS IN BANDIAGARA, MALI AFTER A RANDOMIZED CONTROLLED PHASE I TRIAL OF WALTER REED ARMY INSTITUTE OF RESEARCH'S AMA1 ANTIGEN ADJUVANTED IN GLAXOSMITHKLINE BIOLOGICALS' AS02A

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(ACMCIP Abstract)

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DISRUPTION OF CD36 IMPAIRS CYTOKINE RESPONSE TO *PLASMODIUM FALCIPARUM* GPI AND CONFERS SUSCEPTIBILITY TO SEVERE AND FATAL MALARIA *IN VIVO*

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MEMORY T CELLS ACCUMULATE IN THE PLACENTAE OF MALARIA-INFECTED WOMEN

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(ACMCIP Abstract)

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AGE AND REPEATED EXPOSURE LEAD TO HIGHER FREQUENCIES OF IGG ANTIBODIES TO BLOOD-STAGE AS COMPARED TO PRE-ERYTHROCYTIC *P. FALCIPARUM* ANTIGENS IN AN AREA OF UNSTABLE MALARIA TRANSMISSION

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(ACMCIP Abstract)

Malaria – Molecular Biology

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EXPRESSION OF MULTIPLE VAR TRANSCRIPTS IN PATIENTS WITH *P. FALCIPARUM* MALARIA IN KAMPALA, UGANDA

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GENETIC DIVERSITY IN THE *PLASMODIUM FALCIPARUM* MEROZOITE SURFACE PROTEIN-1 C-TERMINAL IN A PERUVIAN COMMUNITY WITH RECENT AND LOW MALARIA TRANSMISSION

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THE MEROZOITE SURFACE PROTEIN 3 BETA SEQUENCE REVEALS A CLONAL EXPANSION OF *PLASMODIUM VIVAX* POPULATION IN SOUTHERN THAILAND

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(ACMCIP Abstract)

Malaria – Vaccines

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ARMED FORCES RESEARCH INSTITUTE OF MEDICAL SCIENCES-M3V-AD-PFCA, A *P. FALCIPARUM* MULTI-ANTIGEN MULTI-STAGE ADENOVIRUS VECTORED VACCINE, IS IMMUNOGENIC IN BALB/C MICE

Maureen E. Stefaniak[1], Joseph J. Campo[1], Noelle B. Patterson[1], Kalpana Gowda[1], Keith Limbach[1], Joseph T. Bruder[2], C. Richter King[2], Thomas L. Richie[1], Denise L. Doolan[1]

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USING DENATURING HPLC TO GENOTYPE *P. FALCIPARUM* GENES — APPLICATION TO THE VACCINE CANDIDATE PFMSP3

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(ACMCIP Abstract)

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IMPROVED IMMUNOGENICITY AND PROTECTIVE EFFICACY OF A CHIMERIC MSP-1 AND MSP-8 RECOMBINANT ANTIGEN VACCINE

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(ACMCIP Abstract)

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SYNTHETIC PEPTIDE CHIMERAS WITH CELL PENETRATING CAPABILITY AND THEIR POTENTIAL USE AS DELIVERY SYSTEM FOR MALARIA VACCINE DEVELOPMENT

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INDUCTION IN RHESUS MONKEYS OF ANTIGEN-SPECIFIC T CELL RESPONSES TO ALL VACCINE COMPONENTS (CSP, AMA1, SSP2 AND MSP1) OF A MULTI-STAGE *PLASMODIUM KNOWLESI* VACCINE ADMINISTERED BY PRIME/BOOST IMMUNIZATION

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(ACMCIP Abstract)

Malaria – Vector Biology and Malaria Transmission

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NATURAL HUMAN HUMORAL RESPONSE TO SALIVARY GLAND PROTEINS OF *ANOPHELES* MOSQUITOES IN THAILAND

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SPATIAL DISTRIBUTION OF INSECTICIDE-TREATED NETS: IMPLICATIONS FROM A TRANSMISSION MODEL FOR THE DESIGN AND EVALUATION OF INTERVENTIONS

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Mosquitoes – Biochemistry and Molecular Biology

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COMPARATIVE AND FUNCTIONAL ANALYSIS OF ODORANT BINDING PROTEIN (OBP) GENES IN MOSQUITOES

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(ACMCIP Abstract)

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DISSECTION OF THE MOSQUITO IMMUNE SIGNALING PATHWAY WITH MICROARRAY

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MORPHOLOGICAL AND MOLECULAR COMPARISONS AMONG THREE MEMBERS OF THE SOUTHEAST ASIAN ANOPHELES SUNDAICUS COMPLEX — DEVELOPMENT OF A PCR BASED IDENTIFICATION METHOD

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THE FORKHEAD BOX GENE FAMILY OF TRANSCRIPTION FACTORS OF THE YELLOW FEVER MOSQUITO *AEDES AEGYPTI* AND ITS ROLE IN MOSQUITO REPRODUCTION

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Mosquitoes – Molecular Genetics

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DISTRIBUTION AND DYNAMICS OF BUSTER, A FUNCTIONAL CLASS II TRANSPOSABLE ELEMENT, IN NATURAL POPULATIONS OF *AEDES AEGYPTI*

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ALTERNATIVE SPLICING OF THE *AEDES TRISERIATUS* INHIBITOR OF APOPTOSIS 1 (ATIAP1) GENE

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TRANSPOSABLE ELEMENTS AS A GENETIC MARKER FOR DIFFERENTIATION WITHIN THE CULEX PIPIENS COMPLEX

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MOLECULAR EVOLUTION OF IMMUNE GENES IN MEMBERS OF THE *ANOPHELES GAMBIAE* COMPLEX

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(ACMCIP Abstract)

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POPULATIONAL GENETIC DIVERSITY OF THE PRINCIPAL VECTOR OF MALARIA, *ANOPHELES DARLINGI,* ALONG THE IQUITOS-NAUTA HIGHWAY IN LORETO, PERU

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Mosquitoes – Vector Biology

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PHYLOGEOGRAPHY OF THE NEOTROPICAL MALARIA VECTOR *Anopheles darlingi* USING MITOCHONDRIAL AND NUCLEAR DNA: IMPLICATIONS FOR ITS SPECIES STATUS AND CONTINENTAL-SCALE BIOGEOGRAPHY

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PATTERNS OF SELECTION IN GENES IMPLICATED IN THE IMMUNE RESPONSE OF ANOPHELINE VECTORS AGAINST MALARIA

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LABORATORY INVESTIGATION OF OVIPOSITION RESPONSES OF *AEDES AEGYPTI* AND *AEDES ALBOPICTUS* TO ORGANIC INFUSIONS AND AN ANALYSIS OF BACTERIAL DIVERSITY BY DGGE

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THE MOSQUITO LYSOSOMAL ASPARTIC PROTEASES (MLAP) AS AN ANTIGEN FOR A MOSQUITOCIDAL DNA VACCINE AGAINST *AEDES AEGYPTI* AND *ANOPHELES GAMBIAE*

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FINDING THE MOST PRECIOUS RESOURCE: HOW DO VIRGIN FEMALE ANOPHELINES LOCATE A MATE?

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MOSQUITO HOST PREFERENCE AND WEST NILE VIRUS IN RURAL BIRDS AND MOSQUITOES IN CENTRAL COLOMBIA, SOUTH AMERICA

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FIELD TRANSMISSION OF ARBOVIRUSES IN THREE COUNTIES IN FLORIDA

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IMPORTANCE OF NUTRITIONAL RESERVES AND ECDYSTEROID LEVELS FOR PUPAL COMMITMENT IN THE YELLOW FEVER MOSQUITO, *AEDES AEGYPTI* (DIPTERA: CULICIDAE)

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EVALUATING TRADE OFF BETWEEN BACTERIAL RESISTANCE AND LIFE HISTORY TRAITS OF *ANOPHELES GAMBIAE*

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YELLOW FEVER VIRUS SUSCEPTIBILITY OF TWO VECTORS FROM KENYA, EAST AFRICA

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[1]Tulane University, Honolulu, HI, United States, [2]University of Texas Medical Branch, Galveston, TX, United States, [3]Tulane University, New Orleans, LA, United States, [4]Kenya Medical Research Institute, Nairobi, Kenya

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DISCOVERY OF A NEW CLADE OF TRYPANOSOMATIDS IN *CULEX TARSALIS* AND *CULEX PIPIENS* MOSQUITOES

Meg Van Dyken, **Brian D. Foy**
Colorado State University, Fort Collins, CO, United States

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DOES *ANOPHELES GAMBIAE S.L* MATE INDOORS?

Adama Dao[1], Alpha Yaro[2], Abdoulaye Adamou[2], Sekou Traore[2], Jaroslaw Krzywinski[3], Tovi Lehmann[4]
[1]Malaria Research and Training Center, Rockville MD, MD, United States, [2]Malaria Research and Training Center, Bamako, Mali, [3]University of Texas at Arlington, Arlington, TX, United States, [4]Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

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LACK OF EVIDENCE FOR *ANOPHELES GAMBIAE* AVOIDANCE OF ITNS IN MULTI-ROOM CHOICE TESTS WITH LARGE EVE OPENINGS

Ole Skovmand[1], Fred Amimo[2], James Miller[2], John Vulule[3], Edward Walker[2]
[1]Intelligent Insect Control, Castelnau le Lez, France, [2]Michigan State University, E. Lansing, MI, United States, [3]Kenya Medical Research Institute, Kisumu, Kenya

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DIFFERENTIAL LATITUDINAL ADAPTATIONS OF DIAPAUSE IN *CULEX PIPIENS* MOSQUITOES IN THE EASTERN UNITED STATES

Rebecca M. Robich[1], Sheila McCune[1], David Gaines[2], Ivo Foppa[3], Michael Hutchinson[4], Abelardo Moncayo[5], Andrew Spielman[1]
[1]Harvard School of Public Health, Boston, MA, United States, [2]Virginia Department of Health, Richmond, VA, United States, [3]University of South Carolina, Columbia, SC, United States, [4]Commonwealth of Pennsylvania, Harrisburg, PA, United States, [5]Tennessee Department of Health, Nashville, TN, United States

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EFFECTS OF HOUSE SPRYING WITH 3RD GENERATION PYRETROIDS IN POPULATIONS OF *LUTZOMYIA VERRUCARUM* (DIP: PSYCHODIDAE), HUAYLAS PROVINCE, ANCASH, PERU

Nelson Solorzano[1], Paul Pachas[2], Juana Chiroque[3], M. Flores[3], J. Rojas[3], Luis Cerna[3], Fernando Chapilliquen[2]
[1]Caraz Hospital, Lima, Peru, [2]General Direction of Epidemiology, Ministry of Health, Lima, Peru, [3]Caraz Hospital, Ancash, Peru

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A DISTRIBUTION MODEL OF ANOPHELES GAMBIE SENSU STRICTO MOLECULAR FORMS IN AFRICA

Kaanan Shah, Saul Lozano-Fuentes, Sigrid Rian, Yongkang Xue, Charles Taylor
University of California Los Angeles, Los Angeles, CA, United States

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STREAMLINING THE FLOW OF ANNOTATION INFORMATION AT VECTORBASE

Eric O. Stinson[1], Robert V. Bruggner[1], Daniel O. Lawson[2], Martin Hammond[2], Karyn Megy[2], Kathryn Campbell[3], Susan Russo[3], Robert MacCallum[4], Seth O. Stinson[1], Seth Redmond[4], Pantelis Topalis[5], Emannuel G. Dialynas[5], Greg Madey[1], Fotis C. Kafatos[4], Christos Louis[5], William M. Gelbart[3], Ewan Birney[2], Frank Collins[1]
[1]University of Notre Dame, Notre Dame, IN, United States, [2]European Molecular Biology Laboratory - European Bioinformatics Institute, Hinxton, United Kingdom, [3]Harvard University, Cambridge, MA, United States, [4]Imperial College, London, United Kingdom, [5]Institute of Molecular Biology and Biotechnology, Heraklion, Greece

Mosquitoes – Vector Biology-Epidemiology

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RAPID AMPLIFICATION OF WEST NILE VIRUS IN MOSQUITO POPULATIONS: THE ROLE OF HATCH YEAR BIRDS

Gabe Hamer[1], Edward D. Walker[1], Jeffrey D. Brawn[2], Scott Loss[2], Marilyn Ruiz[2], Tony Goldberg[2], Anna Schotthoeffer[2], William Brown[2], Emily Wheeler[2], Uriel Kitron[2]
[1]Michigan State University, East Lansing, MI, United States, [2]University of Illinois, Champaign-Urbana, IL, United States

933

A COMPARISON OF THE EFFECTS OF AGRICULTURAL AND PUBLIC HEALTH PRACTICES ON MALARIA VECTOR INSECTICIDE RESISTANCE IN THE PHILIPPINES

Frank Mannix[1], Fe Esperanza Espino[2], Dawn M. Wesson[1]
[1]Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, [2]Research Institute for Tropical Medicine, Metro Manila, Philippines

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VECTOR INCRIMINATION OF *ANOPHELES* IN THREE RURAL RIVERINE VILLAGES IN THE BRAZILIAN AMAZON

Robert H. Zimmerman[1], Allan K. Galardo[2], L. P. Lounibos[3], Mercia Arruda[4], Robert A. Wirtz[5]
[1]Florida Medical Entomology Laboratory, IFAS, University of Florida, Gainesville, FL, United States, [2]National Health Foundation (FUNASA), Macapá, Brazil, [3]Florida Medical Entomology Laboratory, IFAS, University of Florida, Vero Beach, FL, United States, [4]Department of Immunology, Centro de Pesquisas Aggeu Magalhães, Fundação Oswaldo Cruz, Recife, Brazil, [5]Entomology Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States

935

SURVEILLANCE OF *AEDES AEGYPTI* IN COMAS DISTRICT, LIMA, PERU

Carmen Flores-Mendoza
U.S. Naval Medical Research Center Detachment, Lima, Peru

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MOSQUITO DIVERSITY AND SEASONALITY AT AN ENZOOTIC EEE FOCUS IN TENNESSEE

Erin Moody[1], Kenneth Lewockzo[1], John Dunn[2], Ron Wilson[3], Tim F. Jones[2], **Abelardo C. Moncayo[2]**

[1]Union University, Jackson, TN, United States, [2]Tennessee Department of Health, Nashville, TN, United States, [3]Tennessee Department of Agriculture, Nashville, TN, United States

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A COMPARISON OF THREE SATELLITE SENSORS FOR PREDICTING MOSQUITO SPECIES OCCURRENCE

Heidi E. Brown[1], Maria A. Diuk-Wasser[1], Susan Caskey[2], Durland Fish[1]

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SPATIOTEMPORAL PATTERNS OF PRECIPITATION AND WEST NILE VIRUS IN CHICAGO, ILLINOIS, 2002-2005 AND IMPLICATIONS FOR SURVEILLANCE

Marilyn O. Ruiz[1], William M. Brown[1], Jeffrey D. Brawn[1], Gabel L. Hamer[2], Kenneth E. Kunkel[3], Scott R. Loss[1], Edward D. Walker[2], Uriel D. Kitron[1]

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939

PHYLOGEOGRAPHIC STUDY OF DOMESTIC AND SYLVAN POPULATIONS OF *AEDES AEGYPTI* IN SENEGAL, IN RELATION TO CLIMATE ZONES AND SUSCEPTIBILITY TO DENGUE-2 VIRUS

Christopher F. Bosio[1], Massamba Sylla[2], William C. Black[1], Barry J. Beaty[1]

[1]Colorado State University, Fort Collins, CO, United States, [2]Institut Recherche pour le Developpement, Dakar, Senegal

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MOSQUITO DIVERSITY, ABUNDANCE AND THE POTENTIAL FOR WEST NILE VIRUS TRANSMISSION ON AMERICAN CROW (*CORVUS BRACHYRHYNCHOS*) TERRITORIES.

Lisa A. Patrican[1], Laura E. Hackett[1], Anne B. Clark[2], Amy L. Glaser[3], Kevin J. McGowan[3], Douglas A. Robinson[2], Rebecca S. Heiss[2], Jennifer Dawson[4]

[1]New York State Department of Health, Ithaca, NY, United States, [2]Binghamton University, Binghamton, NY, United States, [3]Cornell University, Ithaca, NY, United States, [4]New York State Department of Health, Albany, NY, United States

Protozoa – Ameba/Giardia

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GENETIC VARIABILITY OF THE SERINE-RICH GENE OF ENTAMOEBA HISTOLYTICA IN CLINICAL ISOLATES, TURKEY

Mehmet Tanyuksel[1], Mustafa Ulukanligil[2], Hasan Yilmaz[3], Zeynep Guclu[1], Engin Araz[1], Gurkan Mert[4], Ozgur Koru[1], William A. Petri[5]

[1]Division of Medical Parasitology, Department of Microbiology and Clinical Microbiology, Gulhane Military Medical Academy, Ankara, Turkey, [2]Department of Microbiology, Harran University, Sanliurfa, Turkey, [3]Department of Parasitology, Yuzuncu Yil University, VA, Turkey, [4]Turkish Armed Forces Medical Commander, Infectious Disease Officer, Ankara, Turkey, [5]University of Virginia, Charlottesville, VA, United States

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ROLE OF LIPID RAFTS IN PRE-INVASIVE AND POST-INVASIVE STAGES OF AMOEBIASIS

Kriti Mittal, Lesly A. Temesvari

Clemson University, Clemson, SC, United States

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DETECTION OF CELL-MEDIATED IMMUNE RESPONSE TO *CRYPTOSPORIDIUM PARVUM*

Andrea N. Davis-Rivers, Richard L. Guerrant

Center for Global Health, University of Virginia, Charlottesville, VA, United States

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ALANYL-GLUTAMINE PREVENTS DEVELOPMENTAL DELAYS IN SUCKLING C57BL/6J MICE CHALLENGED BY MALNUTRITION

Bruna P. Coutinho[1], Andrea Davis-Rivers[1], Reinaldo B. Oria[2], Aldo A. Lima[2], Richard L. Guerrant[1]

[1]Center for Global Health University of Virginia, Charlottesville, VA, United States, [2]Center for Global Health Federal University of Ceará, Fortaleza, Brazil

Protozoa – Opportunistic Protozoa

945

MULTILOCUS SEQUENCE TYPING OF *CRYPTOSPORIDIUM MELEAGRIDIS*

Wenli Yang[1], Robert Gilman[2], Vitaliano Cama[3], Caryn Bern[1], Lilia Cabrera[4], Ynes Ortega[5], Wangeci Gatei[3], Lihua Xiao[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Johns Hopkins University, Baltimore, MD, United States, [3]Centers for Disease Control and Prevention-Atlanta Research and Education Foundation, Atlanta, GA, United States, [4]Asociación Benéfica PRISMA, Lima, Peru, [5]University of Georgia, Griffin, GA, United States

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PROFILE OF INTESTINAL PARASITIC INFECTIONS IN HIV/AIDS PATIENTS WITH DIARRHEA IN JAKARTA, INDONESIA

Agnes Kurniawan

Faculty of Medicine, University of Indonesia, Jakarta, Indonesia

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IMMUNOBLOT ANALYSIS OF *ENTEROCYTOZOON BIENEUSI* SPECIFIC PROTEINS — INVESTIGATION OF DIAGNOSTIC MARKERS

Zuzana Kucerova, Delynn M. Moss, Govinda S. Visvesvara, W. Evan Secor

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

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DETECTION OF OOCYSTS OF *CYCLOSPORA CAYETANENSIS* IN HUMANS, DOGS AND SEWER SAMPLES

Ynes R. Ortega[1], Vitaliano A. Cama[2], Adam Robertson[3], Amy Mann[1], Lilia Cabrera[4], Carmen Taquiri[5], Lihua Xiao[2], Robert H. Gilman[6]

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QUANTIFICATION OF CRYPTOSPORIDIAL INFECTION INSTOOL OF NEONATAL MICE

Jesus Emmanuel A. Sevilleja, Carlos M. Vieira, Bruna Coutinho, Relana C. Pinkerton, Richard L. Guerrant

Center for Global Health, University of Virginia, Charlottesville, VA, United States

Trematodes – Schistosomiasis

950

DEVELOPMENT OF A MONOCLONAL ANTIBODY-BASED DIPSTICK FOR DIAGNOSIS OF *SCHISTOSOMIASIS MANSONI*

Daniel Boamah[1], Irene Ayi[1], Kwabena M. Bosompem[1], Mante Siakwa[2], Kwabena Yankson[2]

[1]Noguchi Memorial Institute for Medical Research, Accra, Ghana, [2]Department of Human Biology, University of Cape Coast, Accra, Ghana

(ACMCIP Abstract)

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SOCIOECONOMIC PATTERNING OF URINARY SCHISTOSOMIASIS IN COASTAL KENYA

Melissa K. Van Dyke[1], Charles H. King[2], Eric M. Muchiri[3], Peter L. Mungai[4], Mark L. Wilson[1]

[1]University of Michigan, Ann Arbor, MI, United States, [2]Case Western Reserve University, Cleveland, OH, United States, [3]Division of Vector Borne Diseases, Ministry of Health, Nairobi, Kenya, [4]Msambweni Field Station, Msambweni, Kenya

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TOWARDS THE CONTROL OF SCHISTOSOMIASIS, INTESTINAL HELMINTHS AND OTHER NEGLECTED TROPICAL DISEASES IN AFRICA

Alan Fenwick

Imperial College London, London, United Kingdom

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APPROACHES TO SCHISTOSOME TRANSGENESIS USING PSEUDOTYPED RETROVIRUSES

Kristine J. Kines[1], Victoria H. Mann[1], Maria E. Morales[1], Geoffrey N. Gobert[2], Paul J. Brindley[1]

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INCREASED EXPRESSION OF CHEMOKINE RECEPTORS AND ACTIVATION MARKERS ON CD4+ T CELLS DURING SCHISTOSOME INFECTION IS ASSOCIATED WITH ENHANCED SHIV REPLICATION IN CO-INFECTED MACAQUES

Lisa N. Steele[1], Agnes-Laurence Chenine[2], Peter Augostini[1], Ela Shai-Kobiler[2], Ruth M. Ruprecht[2], W. Evan Secor[1]

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(ACMCIP Abstract)

Viruses – Other

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MEASURING EMERGING DISEASE HOTSPOTS

Peter Daszak[1], Kate Jones[2], Marc Levy[3], Deborah Balk[3], Adam Storeygard[4], John L. Gittleman[5]

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HUMAN ENTEROVIRUSES SURVEY AMONG CHILDREN LESS THAN FIVE YEARS IN THE HO MUNICIPALITYOF GHANA

Miriam A. Sagoe, Emmanuel Kudiabor, Mubarak Osei-Kwasi

Noguchi Memorial Institute for Medical Research, Accra, Ghana

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FIRST MOLECULAR DETECTION OF CRIMEAN-CONGO HEMORRHAGIC FEVER VIRUS IN TICKS FROM TURKEY

Chris A. Whitehouse[1], Hannah Hottel[1], Zati Vatansever[2], Ahmet Deniz[3], Onder Ergonul[4], Jason Paragas[1], Aura Garrison[1], John P. Kondig[1], Leonard P. Wasieloski[1]

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HANTAVIRUS INFECTION AND HABITAT ASSOCIATIONS AMONG RODENT POPULATIONS IN WESTERN PANAMA

Armien G. Armien[1], Blas Armien[2], Juan M. Pascale[2], Mario Avila[3], Fernando Gracia[4], Gerardo Suzan[5], Terry Yates[5], Frederik Koster[6], Jorge Salazar-Bravo[7]

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A PROOF-OF-CONCEPT THERMOSTABLE MEASLES VACCINE

Jeffrey Mariner[1], **Jeffrey K. Griffiths[1]**, Sue Lautze[2], Luke Ascolillo[1]

[1]Tufts University School of Medicine, Boston, MA, United States, [2]Oxford University, Oxford, United Kingdom

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VARIATION IN VIRULENCE OF DIFFERENT LOW-PASSAGE ISOLATES OF WEEV AND HJV IN AN OUTBRED MOUSE MODEL

Christopher F. Bosio[1], Dennis J. Pierro[1], Kimberly M. Keene[2], Brooke A. Roeper[1], Christopher H. Logue[2], Ann M. Powers[2], Kenneth E. Olson[1]

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REAPPEARANCE OF CCHF AND OTHER TICK-BORNE ARBOVIRUSES IN THE SYRDARYA REGION OF THE REPUBLIC OF UZBEKISTAN

Akbar Kadyrov[1], Dilbar Shermukhamedova[1], Nemat Komilov[1], Shabot Khodjaev[1], Eylena Bryanseva[1], Shavkat Umurzakov[1], Jason Paragas[2], Christopher Mores[3]

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MOLECULAR CHARACTERIZATION OF TACAIUMA VIRUS (*BUNYAVIRIDAE, ORTHOBUNYAVIRUS, ANOPHELES A* GROUP) ISOLATED IN THE AMAZON REGION

Márcio R. Nunes, Samir M. Casseb, **Pedro F. Vasconcelos**

Instituto Evandro Chagas, Belém, Brazil

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TICK-BORNE ARBOVIRUS SURVEILLANCE IN UZBEKISTAN

Eylena Bryanseva[1], Nemat Komilov[2], Dilbar Shermukhamedova[2], Ilseyar Khyuziahmetova[2], Shavkat Umurzakov[2], Lyudmila Kalugina[2], Akbar Kadyrov[2], Saida Alakbarova[2], Jason Paragas[3], Christopher Mores[4]

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PHYLOGENETIC ANALYSIS, REASSORTMENT AND RECOMBINATION, AMONG *SIGMODONTINAE*-BORNE AMERICAN HANTAVIRUSES

Yong-Kyu Chu[1], Robert Owen[2], Shawn Lewis[3], Stephen Kania[3], John New[3], Dorcas O'Rourke[3], Colleen Jonsson[1]

[1]Southern Research Institute, Birmingham, AL, United States, [2]Texas Tech University, Lubbock, TX, United States, [3]University of Tennessee, Knoxville, TN, United States

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A HUMAN ISOLATE OF WEEV IS HIGHLY VIRULENT IN MICE BUT HAS DIMINISHED MOSQUITO COMPETENCE

Dennis J. Pierro[1], Chris F. Bosio[1], Kim M. Keene[2], Brooke A. Roeper[1], Chris H. Logue[2], Ann M. Powers[2], Ken E. Olson[1]

[1]Colorado State University, Fort Collins, CO, United States, [2]US Centers for Disease Control and Prevention, Fort Collins, CO, United States

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DISCOVERY OF NOVEL ANTIVIRAL LEADS FOR THE TREATMENT OF HANTAVIRUS INFECTIONS

Dong Hoon Chung[1], Yong-Kyu Chu[1], Yanjie Sun[1], Jeffery Arterburn[2], William Parker[1], Colleen B. Jonsson[1]

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ACMCIP Abstracts — Molecular, Cellular and Immunoparasitology

749, 758, 765, 766, 768, 798, 799, 800, 801, 816, 817, 819, 820, 823, 824, 833, 836, 837, 838, 839, 841, 843, 846, 849, 851, 852, 859, 861, 880, 889, 890, 892, 894, 895, 898, 900, 901, 903, 906, 913, 950, 954

Certificate Exam Committee Meeting

Room 3908

Wednesday, November 15 12:15 p.m. – 1:15 p.m.

Continuing Medical Education/ Courses Committee

Room 3914

Wednesday, November 15 12:15 p.m. – 1:15 p.m.

Meet the Professors 102

Meet the Professors D: Enigmatic and Teaching Cases

International 5/6

Wednesday, November 15 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.

SERIES ORGANIZER

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

PANELISTS

J. Dick MacLean

McGill University Center for Tropical Disease, Montreal, QC, Canada

Anne McCarthy

Ottawa Hospital, Ottawa, ON, Canada

Mid-Day Session 103

Workers in Tropical Medicine Video: The Life and Work of Bill Collins: A Laboratorian's 50-Year Battle against Malaria

International 4

Wednesday, November 15 12:15 p.m. – 1:15 p.m.

This 50-minute video features an interview of William Collins by Mark Eberhard. Dr. Collins discusses the past, present and future of malaria research, including his 50 years of contributions to the field. Produced by the Centers for Disease Control and Prevention.

INTRODUCTION

Carlos (Kent) Campbell

PATH Malaria Control and Evaluation Partnership in, Tucson, AZ, United States

Mark Eberhard

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

Poster Session C Viewing

International and Skyline Levels

Wednesday, November 15 1:30 p.m. – 7:00 p.m.

Symposium 104

Case Studies on Strengthening Health Systems for Disease Control in Africa

International 5/6

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

Building capacity for implementation of health interventions requires not only the training and supervision of specific cadres of workers, but also the creation of partnerships between groups that have not worked together before, the maintenance of active communication channels between these groups and the development of effective and innovative evaluation tools. This symposium will present examples from control programs for pneumonia, lymphatic filariasis, malaria and guineaworm to demonstrate ways that forging new partnerships, developing new approaches to monitoring and evaluations and increasing demand for health care services can lead to stronger health systems in Africa.

CHAIR

Amy E. Patterson

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

Peter Winch

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

1:30 p.m.

INTRODUCTION

Amy E. Patterson

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

1:35 p.m.

DONOR CAPACITY DEVELOPMENT FOR NATIONAL MALARIA PROGRAMMING: THE CASE OF NIGERIA

William R. Brieger

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

2 p.m.

FIELD TEST OF HEALTH SYSTEMS STRENGTHENING INDICATORS FOR THE LYMPHATIC FILARIASIS PROGRAM IN BURKINA FASO, MALAWI AND GHANA

Deborah McFarland

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

2:25 p.m.

IMPACT OF BETTER SURVEILLANCE FOR MALARIA EPIDEMICS ON THE PERFORMANCE OF DISTRICT LEVEL AND HEALTH FACILITY STAFF IN EAST AFRICA

Caroline Jones

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

2:50 p.m.

IMPROVING ACCESS AND INCREASING DEMAND FOR HEALTH CARE SERVICES FOR EFFECTIVE CONTROL OR ELIMINATION OF DISEASES AMONG RURAL AND DISADVANTAGED COMMUNITIES IN SUB-SAHARA AFRICA

Moses N. Katabarwa

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

Scientific Session 105

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) — Immunoparasitology I

Supported with funding from the Burroughs Wellcome Fund

Copenhagen/Stockholm/Amsterdam

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

CHAIR

Lisa Ganley-Leal

Boston University School of Medicine, Boston, MA, United States

Peter E. Kima

University of Florida, Gainesville, FL, United States

1:30 p.m.

1115

NAÏVE CD4+ T CELLS MODULATE SCHISTOSOME DEVELOPMENT AND THE OUTCOME OF INFECTION IN THE ABSENCE OF RESPONSES TO ANTIGEN

Erika L. Lamb, E.T. Crow, B.C. Schaefer, S.J. Davies

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

1:45 p.m.

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COORDINATED CONTROL OF IMMUNITY TO MUSCLE STAGE TRICHINELLA SPIRALIS BY IL-10, REGULATORY T CELLS AND TGF-β1

Daniel P. Beiting, Lucille F. Gagliardo, Matthias Hesse, Susan K. Bliss, Diana Meskill, Judith A. Appleton

Cornell University, Ithaca, NY, United States

2 p.m.

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INTERACTION BETWEEN MALARIA AND FILARIA INDUCED IMMUNE RESPONSES ALTER MALARIA DISEASE OUTCOME AND FILARIAL MEMORY RESPONSE

Simmi Mahajan

University of Edinburgh, Edinburgh, United Kingdom

2:15 p.m.

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HOOKWORM INFECTION IS ASSOCIATED WITH REDUCED LYMPHOCYTE PROLIFERATION AND IMPAIRED ANTIGEN PRESENTATION

Blaise Dondji[1], Richard D. Bungiro[1], Diane McMahon-Pratt[2], Michael Cappello[3]

[1]Yale University School of Medicine, New Haven, CT, United States, [2]Yale University School of Public Health, New Haven, CT, United States, [3]Yale University School of Medicine and Yale School of Public Health, New Haven, CT, United States

2:30 p.m.

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HUMAN CD23+ B CELLS ARE ASSOCIATED WITH PROTECTION AGAINST REINFECTION BY *SCHISTOSOMA MANSONI*

Lisa M. Ganley-Leal[1], Pauline Mwinzi[2], Alan Hightower[3], Diana Karanja[2], Daniel Colley[4], Lee Wetzler[1], W. Evan Secor[5]

[1]Boston University School of Medicine, Boston, MA, United States, [2]Kenya Medical Research Institute, Kisumu, Kenya, [3]Statistics and Data Management Branch, Centers for Disease Control and Prevention-Kenya, Kisumu, Kenya, [4]Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, GA, United States, [5]Centers for Disease Control and Prevention, Atlanta, GA, United States

2:45 p.m.

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THE SLOW DEVELOPMENT OF CD8+ T CELL RESPONSES IN *TRYPANOSOMA CRUZI* INFECTION IS NOT DUE TO FAILED ACTIVATION OR MIGRATION OF PARASITE-CONTAINING DENDRITIC CELLS

Angel M. Padilla[1], Jessica L. Tarleton[2], Rick L. Tarleton[2]

[1]Center for Tropical and Emerging Global Diseases, Athens, GA, United States, [2]Center for Tropical and Emerging Global Diseases, University of Georgia, Athens, GA, United States

3 p.m.

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ROLE PI-3γ IN PATHOGENESIS OF CUTANEOUS LEISHMANIASIS CAUSED BY *L. MEXICANA*

Abhay Satoskar[1], Nicholas Zorko[1], Tracy Keiser[1], Joseph Barbi[1], Bao Lu[2], Craig Gerard[2]

[1]Ohio State University, Columbus, OH, United States, [2]Children's Hospital, Boston, MA, United States

Scientific Session 106

Malaria — Biology and Pathogenesis I

Marquis 3

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

CHAIR

Alberto Moreno

Emory University Vaccine Research Center, Atlanta, GA, United States

Fousseyni N. Toure

Centre International de Recherches Medicales, Franceville, Gabon

1:30 p.m.

972

CHARACTERIZATION OF ERYTHROCYTE TURNOVER USING BIOTIN INFUSION IN A NON-HUMAN PRIMATE MODEL OF SEVERE MALARIA

Alberto Moreno[1], Monica Cabrera-Mora[1], Elizabeth Strobert[2], Natalia Kozyr[1], Sheila Akinyi[1], Mary R. Galinski[1]

[1]Emory Vaccine Center at Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States, [2]Yerkes National Primate Research Center, Atlanta, GA, United States

1:45 p.m.

973

PREGNANCY INDUCED RECRUDESCENCES IN SEMI-IMMUNE MICE INFECTED WITH *PLASMODIUM BERGHEI*: EFFECT OF EXPOSURE TO PARASITES FROM PREGNANT PARASITE DONORS DURING THE PRE-PREGNANCY IMMUNISATION PERIOD

Trine Staalsoe, Rosette Megnekou, Lars Hviid

Rigshospitalet, Copenhagen, Denmark

2 p.m.

974

MOLECULAR FACTORS AND BIOCHEMICAL PATHWAYS INDUCED BY FEBRILE TEMPERATURE IN *PLASMODIUM FALCIPARUM* PARASITES

Miranda S.M. Oakley

National Institutes of Health, Rockville, MD, United States

2:15 p.m.

975

HIV INFECTION IMPAIRS PHAGOCYTIC CLEARANCE OF PLACENTAL MALARIA VARIANTS: IMPLICATIONS FOR PREGNANCY-ASSOCIATED MALARIA IN CO-INFECTED WOMEN

Jessica Keen[1], Lena Serghides[2], Kodjo Ayi[1], Samir N. Patel[1], John Ayisi[3], Annemieke van Eijk[3], Richard Steketee[4], Venkatachalam Udhayakumar[4], Kevin C. Kain[2]

[1]Faculty of Medicine, University of Toronto, Toronto, ON, Canada, [2]McLaughlin-Rotman Centre, McLaughlin Center for Molecular Medicine, University Health Network and University of Toronto, Toronto, ON, Canada, [3]Center for Vector Biology and Control Research, Kenya Medical Research Institute, Kisumu, Kenya, [4]Division of Parasitic Diseases, Centers for Disease Control and Prevention, Public Health Service, U.S. Department of Health and Human Services, Atlanta, GA, United States

(ACMCIP Abstract)

2:30 p.m.

976

APOPTOSIS OF HUMAN ENDOTHELIAL CELLS INDUCED BY *PLASMODIUM FALCIPARUM*-INFECTED ERYTHROCYTES FROM SYMPTOMATIC INDIVIDUALS

Fousseyni S. Toure-Ndouo

Centre International de Recherches Medicales de Franceville, Franceville, Gabon

2:45 p.m.

977

HIGH POLYMORPHISM OF PARASITES ISOLATES IS ASSOCIATED WITH CEREBRAL MALARIA IN DAKAR

Ndeye Bob[1], Bernard Diop[2], Laurence Marrama[1], Marie Thèsrère Ekala[3], Adama Tall[1], Babacar Ka[4], Philippe Hovette[4], Yacine Seck[1], Odile Mercereau Puijalon[5], **Ronan Jambou[1]**

[1]Institut Pasteur de Dakar, Dakar, Senegal, [2]CHU Fann, Dakar, Senegal, [3]Institut Pasteur, Paris, France, [4]Hopital Principal de Dakar, Dakar, Senegal, [5]Institut Pasteur Paris, Paris, France

(ACMCIP Abstract)

3 p.m.

978

SEGMENTAL GENE CONVERSION GENERATES GENETIC DIVERSITY WITHIN THE MULTICOPY *VAR* GENE FAMILY OF *PLASMODIUM FALCIPARUM*

Matthias Frank, Laura Kirkman, Daniel Costantini, Ron Dzikowski, Kirk Deitsch

Weill Medical College of Cornell University, New York City, NY, United States

(ACMCIP Abstract)

Symposium 107

Three Complementary Approaches to Meet the Challenges of the Artemisinin Supply Chain

Marquis 4

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

Artemisinin-based combination therapies (ACTs) are essential components of the current control strategies aimed at curbing the growing problem of malaria. Despite substantial efforts to increase artemisinin production, the effort to provide a consistent and steady supply of low-cost artemisinin derivative to meet the growing demand of ACTs still eludes us. To address the challenges of artemisinin derivatives manufacturing and supply, three different and complementary approaches are currently being pursued. First, the Medicines for Malaria Venture, in collaboration with Ranbaxy Ltd, is developing a new low-cost and completely synthetic antimalarial molecule (Oz277) based on artemisinin's endoperoxide bridge. Second, a partnership between the Institute for OneWorld Health, University of California, Berkeley, and Amyris Biotechnologies is leveraging the promise of synthetic biology to develop a new method for the production of artemisinin through the fermentation of genetically engineered microbes. Finally, a plant biology consortium is applying fast-track breeding technologies to increase the yield of artemisinin in *Artemisia annua* to improve the plant extraction process. In this symposium the different international groups will present their unique strategies and will discuss the forecasted impact of the success of their approaches within the larger context of the global fight against malaria.

CHAIR

Thierry Diagana

Institute for OneWorld Health, San Francisco, CA, United States

Thomas Brewer

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

1:30 p.m.

INTRODUCTION

Thomas Brewer

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

1:45 p.m.

SYNTHETIC ENDOPEROXIDES

J. Carl Craft

Medicines for Malaria Venture, Geneva, Switzerland

2:15 p.m.

MICROBIAL DERIVED ATEMISININ: A BIOTECHNOLOGY SOLUTION TO THE GLOBAL PROBLEM OF ACCESS TO AFFORDABLE ANTIMALARIAL DRUGS

Victoria Hale

Institute for OneWorld Health, San Francisco, CA, United States

2:45 p.m.

FAST-TRACK BREEDING OF *ATEMISIA ANNUA*

Dianna Bowles

University of York, York, United Kingdom

Symposium 107A

Recent Results of Phase I and Phase II Clinical Trials of Three Candidate Malaria Antigens

International 4

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

CHAIR

James F. Cummings

Walter Reed Army Institute of Research, Washington, DC, United States

1:30 p.m.

MAL-44, A PHASE IIB IN KENYA, RTS,S WITH AS01B OR AS02A

Mark E. Polhemus

US Army Medical Research Unit - Kenya, Kisumu, Kenya

1:50 p.m.

MAL-52 AND MAL-53, A PHASE I, IIA AT WALTER REED ARMY INSTITUTE OF RESEARCH, LSA1 WITH AS01B OR AS02A

James F. Cummings

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

2:10 p.m.

MAL-36, A PHASE IIB IN KENYA, MSP-1 WITH AS02A

Bernhards R. Ogutu

US Army Medical Research Unit - Kenya, Kisumu, Kenya

2:30 p.m.

ANALYSIS OF MSP-1_{42} ANTIBODY FINE SPECIFICITIES FOLLOWING VACCINATION WITH FMP1-AS02A

Evelina Angov

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

2:50 p.m.

FUTURE DIRECTIONS OF MSP-1 VACCINE TRIALS

Tony Holder

National Institute for Medical Research, London, ON, Canada

Scientific Session 108

Flavivirus II — Vaccines

Marquis 1

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

CHAIR

David W. Vaughn

U.S. Army Medical Research and Materiel Command, Silver Spring, MD, United States

Stephen Whitehead

National Institutes of Health, Bethesda, MD, United States

1:15 p.m.

979

DNA VACCINE ENCODING DENGUE PREMEMBRANE AND ENVELOPE (PRM/E) INDUCES ROBUST ANTIBODY AND CELLULAR IMMUNE RESPONSES IN SWINE: DEVELOPMENT OF A NOVEL LARGE ANIMAL MODEL FOR DENGUE IMMUNOGENICITY

Jeffrey A. Tjaden, Jorge Pardo, Hemavathy Subramanian, Calvin B. Reed, Kevin R. Porter, **Timothy H. Burgess**

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

1:30 p.m.

980

SAFE, EFFECTIVE, RECOMBINANT SUBUNIT VACCINE FOR PROTECTION AGAINST DENGUE VIRUS INDUCED DISEASE

Beth-Ann Coller[1], Michael Lieberman[1], J. Robert Putnak[2], David Clements[1], Steven Ogata[1], Michael Thorne[1], Timothy Martyak[1], David Chang[1], Axel Lehrer[1], Teri Wong[1], Carolyn Weeks-Levy[1]

[1]Hawaii Biotech, Inc., Aiea, HI, United States, [2]Walter Reed Army Institute of Research, Silver Spring, MD, United States

1:45 p.m.

981

THE LIVE ATTENUATED DENGUE SEROTYPE 2 VACCINE RDEN2/4DELTA30 IS SAFE AND IMMUNOGENIC IN HEALTHY VOLUNTEERS

Julie H. McArthur[1], Jennifer A. Marron[1], Bhavin Thumar[1], Kimberli A. Wanionek[1], Janece M. Lovchik[1], Joseph E. Blaney[2], Brian R. Murphy[2], Stephen S. Whitehead[2], **Anna P. Durbin[1]**

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

2 p.m.

982

GENERATION OF ADDITIONAL LIVE ATTENUATED VACCINE CANDIDATES FOR DENGUE VIRUS SEROTYPES 1 AND 3 USING REVERSE GENETICS

Joseph Blaney, Neeraj Sathe, Brian Murphy, Stephen Whitehead

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

2:15 p.m.

983

DEVELOPMENT OF NOVEL VACCINE FORMULATIONS AGAINST TICK BORNE ENCEPHALITIS BASED ON RECOMBINANT SUBUNIT PROTEINS

Axel T. Lehrer[1], Beth-Ann Coller[1], Michael M. Lieberman[1], David E. Clements[1], Steven A. Ogata[1], Bo Liu[1], Christine Matsuura[1], James Senda[1], Charmaine S. Aniya[1], Mike Thorne[1], Timothy Martyak[1], Teri-Ann S. Wong[1], Stephanie Widner[1], Eric M. Rohlinger[1], Beverly Orillo[1], Michael R. Holbrook[2], Alan D. Barrett[2], Tom D. Humphreys[1], Carolyn L. Weeks-Levy[1]

[1]Hawaii Biotech, Inc., Aiea, HI, United States, [2]University of Texas Medical Branch, Galveston, TX, United States

2:30 p.m.

984

PASSIVE TRANSFER OF HUMAN ANTIBODIES AGAINST A NEW JAPANESE ENCEPHALITIS VIRUS VACCINE PROTECTS MICE AGAINST LETHAL DOSE OF VIRUS

Yvonne Van Gessel[1], Robert Putnak[2], Montip Gettayacamin[3], Christoph Klade[4], Erich Tauber[4], Art Lyons[2], Wellington Sun[2], Shailesh Dewasthaly[4]

[1]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [2]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [3]Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [4]Intercell AG, Vienna, Austria

3 p.m.

985

A NOVEL,VERO CELL DERIVED, PURIFIED, INACTIVATED JAPANESE ENCEPHALITIS VIRUS VACCINE: RESULTS OF A RANDOMIZED CONTROLLED PHASE 3 TRIAL

Erich Tauber[1], Herwig Kollaritsch[2], Maria Korinek[2], Pamela Rendi-Wagner[2], Bernd Jilma[3], Christa Firbas[3], Sabine Schranz[3], Elaine Jong[4], Anton Klingler[5], Christoph Klade[1]

[1]Intercell AG, Vienna, Austria, [2]Medical University Vienna, Department of Specific Prophylaxis and Tropical Medicine at the Institute of Pathophysiology, Vienna, Austria, [3]Medical University Vienna, Department of Clinical Pharmacology, Vienna, Austria, [4]University of Washington, Department of Medicine, Seattle, WA, United States, [5]Medical University Innsbruck, Department of General and Tranplants Surgery, Theoretical Surgery Unit, Vienna, Austria

Symposium 109

Update from the Intermittent Preventive Treatment in Infants (IPTi) Consortium: Pooled Evidence on the Safety and Efficacy of IPTi with Sulfadoxine-Pyrimethamine and Implications for Policy Change and Program Implementation

Marquis 2

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

The symposium will provide an update on the progress of the IPTi Consortium towards its goal of having sufficient information regarding IPTi with SP for an evidence-based policy decision to be made. Topics presented will include new data from recently completed trials in Gabon and Ghana, a pooled analysis on safety and efficacy of IPTi with SP and lessons learned during the progress of a large-scale effectiveness trial of IPTi in Southern Tanzania. The implications of these data regarding the potential adoption of IPTi as policy in sub-Saharan Africa, and progress towards such a policy recommendation, will also be discussed.

CHAIR

Robert David Newman

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

1:30 p.m.

INTRODUCTION

Robert D. Newman

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

1:35 p.m.

IPTI EFFICACY STUDIES: AN OVERVIEW ON RECENT TRIALS FROM GABON AND GHANA

Martin Peter Grobusch

University of the Wittswatersrand, Parktown, Johannesburg, South Africa

1:55 p.m.

POOLED ANALYSIS OF SAFETY DATA FROM CLINICAL TRIALS OF IPTI WITH SP

Alexander Nii Oto Dodoo

U Ghana Medical School: Centre for Tropical Clinical Pharmacology, Accra, Ghana

2:15 p.m.

POOLED ANALYSIS OF EFFICACY DATA FROM CLINICAL TRIALS OF IPTI WITH SP

John Aponte

Center for International Health, Hospital Clinic Barcelona, Barcelona, Spain

2:35 p.m.

OPERATIONALIZING IPTI: EXPERIENCE FROM SOUTHERN TANZANIA

Joanna Armstrong Schellenberg

Ifakara Health Research and Development Cenre, Dar es Salaam, United Republic of Tanzania

2:55 p.m.

IPTI — STEPS TOWARDS POLICY AND IMPLEMENTATON

Jane Margaret Stewart Crawley

Global Malaria Program, Geneva, Switzerland

Symposium 110

Refugee and Immigrant Health Issues in the United States and Canada I

Hilton Hotel – Grand Salon A

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

This two-part clinical care symposium will cover health care issues in refugees and immigrants in the U.S. and Canada. The symposium will address the burden of disease in refugee camps and its impact on health in the United States and other host countries. Changes in the screening and empirical treatment of refugees prior to departure to the U.S. and Canada will be reviewed. In addition, epidemiology regarding the burden of vaccine preventable disease, tuberculosis, malaria and geohelminthic infection will be reviewed. Diagnosis and medical treatment of refugees and immigrants in the U.S. and Canada will be reviewed. This session will also address the difficulties in diagnosing disease among patients who have previously been exposed to tropical diseases and who have limited access to care.

CHAIR

Theresa A. Townley

Creighton University, Omaha, NE, United States

1:30 p.m.

CURRENT PRE-DEPARTURE SCREENING OF REFUGEES

Michelle Weinberg

Centers for Disease Control and Prevention/National Center for Infectious Diseases/DQ, Atlanta, GA, United States

1:55 p.m.

VACCINE PREVENTABLE DISEASE AMONG IMMIGRANTS AND REFUGEES

Christina Greenaway

SMBD Jewish General Hospital, Montreal, QC, Canada

2:20 p.m.

PEDIATRIC ISSUES IN REFUGEES AND IMMIGRANTS

Elizabeth Barnett

Boston Medical Center, Boston, MA, United States

2:45 p.m.

NUTRITIONAL AND ENVIRONMENTAL ISSUES AMONG REFUGEES AND IMMIGRANTS

Paul Geltman

Boston Medical Center, Boston, MA, United States

Symposium 111

Opportunistic Waterborne Pathogens

Hilton Hotel – Grand Salon B

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

This symposium is designed to provide ASTMH members with numerous updates on this highly active and rapidly progressing field of interest. Developments and research on opportunistic waterborne pathogens have expanded considerably during the last years. Our topics and speakers have been carefully selected to best outline new aspects of multidisciplinary research in the field of opportunistic waterborne pathogens relevant to many diseases of interest to ASTMH members, and to update researchers, clinicians, and clinical microbiologists concerned with opportunistic infections.

CHAIR
Thaddeus K. Graczyk
Johns Hopkins University, Baltimore, MD, United States

1:30 p.m.
MOLECULAR ECOLOGY OF WATERBORNE *ESCHERICHIA COLI*
J. Higgins
United States Department of Agriculture (USDA), Beltsville, MD, United States

1:55 p.m.
EVOLVING EPIDEMIOLOGY OF MICROSPORIDIA
A. DaSilva
Centers for Disease Control and Prevention, Atlanta, GA, United States

2:20 p.m.
***CRYPTOSPORIDIUM* TRANSMISSION CYCLES**
Thaddeus K. Graczyk
Johns Hopkins University, Baltimore, MD, United States

2:45 p.m.
HUMAN ENTERIC VIRUSES AS EMERGING WATERBORNE PATHOGENS
K. Schwab
Johns Hopkins University, Baltimore, MD, United States

Symposium 112

Resource-Seeking Activities of Mosquitoes in Relation to Environmental Management for Malaria Control

Hilton Hotel – Grand Salon C

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

Resource-seeking activities, including blood meals from hosts and oviposition in aquatic habitats dictate mosquito response to environmental changes in the distribution and abundance of these resources. However, behavioral responses of mosquitoes to changes in the availability of these resources have not yet been evaluated in the context of malaria transmission. This symposium is to review and update theoretical, behavioral and empirical investigations of resource-seeking activities in the light of environmental management programmes. The focus will be placed on developing a new perspective of environmental management by linking resource-seeking processes of mosquitoes to the potential of malaria transmission.

CHAIR
Weidong Gu
Illnois Natural History Survey, Champaign, IL, United States

1:30 p.m.
INTRODUCTION
Weidong Gu
Illinois Natural History Survey, Champaign, IL, United States

1:35 p.m.
INTEGRATION OF RESOURCE-SEEKING BEHAVIORS OF MOSQUITOES IN EVALUATION OF THE IMPACT OF ENVIRONMENT MANAGEMENT
Weidong Gu
Illinois Natural History Survey, Champaign, IL, United States

2 p.m.
COULD MEMORY INFLUENCE RESOURCE LOCATION BEHAVIOURS IN MOSQUITOES?
Philip McCall
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

2:25 p.m.
HOW MOSQUITOES PERCEIVE HOSTS FOR BLOOD MEALS?
Daniel Kline
United States Department of Agriculture (USDA), Gainesville, FL, United States

2:50 p.m.
A PERSPECTIVE OF ENVIRONMENTAL MANAGEMENT FOR MALARIA CONTROL
Robert Novak
Illinois Natural History Survey, Champaign, IL, United States

Symposium 113

Tropical Neurology

Hilton Hotel – Grand Salon D

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

Tropical neurology encompasses a variety of neurologic disorders associated with infectious diseases or nutritional deficiencies. Although most such disorders were initially described in people living in developing countries, neurologists in all parts of the world are increasingly confronted with the diagnostic and therapeutic challenges associated with neurologic disorders in people who have immigrated from or traveled through developing countries. This course will review the diagnosis and management of a variety of "tropical" disorders: parasitic CNS infections, neurocysticercosis, retroviral infections of the nervous system in developing countries and meningoencephalitis.

CHAIR

Joseph R. Zunt
University of Washington, Seattle, WA, United States

Silvia Margarita Montano
United States Naval Medical Research Center Detachment, Lima, Peru

1:30 p.m.

INTRODUCTION

Joseph R. Zunt
University of Washington, Seattle, WA, United States

1:35 p.m.

PARASITIC INFECTIONS OF THE CNS

Ana Claire Meyer
Harvard University, Boston, MA, United States

2 p.m.

NEUROCYSTICERCOSIS

Felicia Chow
Johns Hopkins University, Baltimore, MD, United States

2:25 p.m.

RETROVIRAL INFECTIONS OF THE NERVOUS SYSTEM

Silvia Margarita Montano
United States Naval Medical Research Center Detachment, Lima, Peru

2:50 p.m.

MENINGOENCEPHALITIS IN TROPICAL SETTINGS

Joseph R. Zunt
University of Washington, Seattle, WA, United States

Symposium 114

Scaling-up HAART in Africa: Achievements and Challenges

Hilton Hotel – Grand Salon E

Wednesday, November 15 1:30 p.m. – 3:15 p.m.

The much anticipated influx of funds and resources under the initiatives such the Global Fund to Fight AIDS, Tuberculosis, and Malaria; the U.S. President's Emergency Plan for AIDS Relief, the World Bank's Multi-Country HIV/AIDS Program for the Africa Region and a growing number of national HIV/AIDS programs initiatives have led to a significant increase of HIV-infected patients being on Antiretroviral Therapy in Africa. This HIV/AIDS Symposium will provide a progress report to include achievements and challenges of the current scaling-up of HAART in Africa.

CHAIR

Jean Nachega
Johns Hopkins University, Baltimore, MD, United States

Tom Quinn
Johns Hopkins University, Baltimore, MD, United States

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

1:30 p.m.

GLOBAL EPIDEMIOLOGY OF HIV/AIDS: UPDATE

Tom Quinn
Johns Hopkins University, Baltimore, MD, United States

1:55 p.m.

THE GLOBAL AIDS PROGRAM: PROGRESS REPORT

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

2:20 p.m.

CLINICAL AND PUBLIC HEALTH CHALLENGES OF HAART SCALING IN AFRICA

Jean Nachega
Johns Hopkins University, Baltimore, MD, United States

2:45 p.m.

A COMPREHENSIVE APPROACH FOR HIV/AIDS CARE AND TREATMENT IN AFRICA

Jono Mermin
Centers for Disease Control and Prevention, Kampala, Uganda

Coffee Break

International Level

Wednesday, November 15 3:15 p.m. – 3:45 p.m.

Symposium 115

Strengthening Health Systems in Africa to Deliver Malaria Control Interventions

International 5/6

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

The World Health Organization defines health systems as "all organizations, institutions and resources that produce actions whose primary purpose is to produce health," thus including not only hospitals and clinics, but also various community organizations and the private sector. Effective malaria control requires not only selection of effective interventions, but also strengthening these health systems so that they can achieve high coverage and sustain this coverage over time. Speakers in this symposium will describe current efforts to build the capacity of health systems to deliver malaria prevention and control interventions, examine relevant lessons from the history of malaria control in Africa and demonstrate how an understanding of historical and cultural factors can inform current initiatives.

CHAIR

Peter Winch

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

Amy E. Patterson

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

3:45 p.m.

INTRODUCTION

Peter Winch

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

3:55 p.m.

THE MALARIA BOOSTER PROGRAM: ACCELERATING IMPLEMENTATION OF MALARIA INTERVENTIONS IN AFRICA

Eva Jarawan

The World Bank, Washington, DC, United States

4:15 p.m.

STRENGTHENING HEALTH SYSTEMS FOR MALARIA CONTROL IN AFRICA USAID'S APPROACHES FROM HEALTH SYSTEM ASSESSMENT TO INFORMATION FEEDBACK FOR DECISION MAKING

Karen Cavanaugh

United States Agency for International Development, Washington, DC, United States

4:35 p.m.

STRENGTHENING HEALTH SYSTEMS FOR MALARIA CONTROL: WHAT IS THE HISTORICAL EXPERIENCE?

Randall Packard

Johns Hopkins University, Baltimore, MD, United States

4:55 p.m.

ADAPTING MALARIA CONTROL STRATEGIES TO LOCAL CULTURAL CONDITIONS: LESSONS FROM MEDICAL ANTHROPOLOGY

Peter J. Brown

Emory University, Atlanta, GA, United States

5:15 p.m.

DISCUSSION AND CONCLUDING REMARKS

Peter Winch

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

Scientific Session 116

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) — Immunoparasitology II

Supported with funding from the Burroughs Wellcome Fund

Copenhagen/Stockholm/Amsterdam

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

CHAIR

Peter Zimmerman

Case Western Reserve University, Cleveland, OH, United States

Diane McMahon-Pratt

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

3:45 p.m.

1117

REGULATORY T CELLS AVOID LIVER PATHOLOGY DURING AFRICAN TRYPANOSOMIASIS AND HEREBY CONTRIBUTE TO TRYPANOTOLERANCE

Martin Guilliams[1], Patrick De Baetselier[1], Thomas Hünig[2], Alain Beschin[1]

[1]Vrije Universiteit Brussel, Brussels, Belgium, [2]Wurzburg University, Wurzburg, Germany

4:00 p.m.

986

PHENOTYPIC VARIATION IN *P. FALCIPARUM* INVASION OF ERYTHROCYTES IS A MECHANISM OF IMMUNE EVASION

Kristina E. Persson[1], Fiona J. McCallum[1], Linda Reiling[1], Janine Stubbs[1], Nicole Lister[1], Thomas Williams[1], Kevin Marsh[2], Alan F. Cowman[1], James G. Beeson[1]

[1]The Walter and Eliza Hall Institute of Medical Research, Melbourne, Victoria, Australia, [2]Centre for Geographic Medicine Research Coast, Kenya Medical Research Institute, Kilifi, Kenya

4:15 p.m.

987

IMPACT OF FETAL EXPOSURE TO *PLASMODIUM FALCIPARUM* ON THE SUSCEPTIBILITY TO INFECTION DURING CHILDHOOD

Indu Malhotra[1], Peter Mungai[1], John H. Ouma[2], Eric Muchiri[3], Christopher L. King[1]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Kenyatta University, Nairobi, Kenya, [3]Division of Vector Borne Diseases, Nairobi, Kenya

4:30 p.m.

988

PLASMODIUM FALCIPARUM MEROZOITE SURFACE PROTEIN 3 IS A TARGET OF ALLELE-SPECIFIC IMMUNITY AND ALLELES ARE MAINTAINED BY NATURAL SELECTION

Spencer D. Polley[1], Kevin K. Tetteh[1], Jennie M. Lloyd[1], Onome J. Akpogheneta[1], Brian M. Greenwood[1], Kalifa A. Bojang[2], **David J. Conway[2]**

[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]MRC Laboratories, Banjul, Gambia

4:45 p.m.

989

TRANSGENIC LEISHMANIA MAJOR EXPRESSING MURINE CD40L CAUSE REDUCED PATHOLOGY IN MICE AND PROVIDE PROTECTION AGAINST WILD TYPE CHALLENGE

Ann E. Field, David M. Mosser

University of Maryland, College Park, College Park, MD, United States

5:00 p.m.

990

MODULATION OF EARLY HUMAN IMMUNE RESPONSES BY *LEISHMANIA CHAGASI*

Nicholas A. Ettinger[1], Mary Wilson[2]

[1]University of Iowa Carver College of Medicine, Interdisciplinary Program in Cellular and Molecular Biology/Medical Scientist Training Program, Iowa City, IA, United States, [2]University of Iowa and the Veterans Affairs Medical Center, Iowa City, IA, United States

Scientific Session 117

Malaria — Biology and Pathogenesis II

Marquis 3

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

CHAIR

Sanjai Kumar

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

Jonathan K. Stiles

Morehouse School of Medicine, Atlanta, GA, United States

3:45 p.m.

991

PROGNOSTIC PREDICTORS OF CEREBRAL MALARIA SEVERITY AND ASSOCIATED NEUROLOGICAL DISORDERS IN INDIA

Vidhan Jain[1], Henry Armah[2], Jon E. Tongren[3], Renee Ned[3], Pradeep K. Joel[1], Mrigendra P. Singh[1], Avinash C. Nagpal[1], Venkatachalam Udhayakumar[3], Neeru Singh[1], **Jonathan K. Stiles[2]**

[1]Regional Medical Research Center/Malaria Research Center, Jabalpur, India, [2]Morehouse School of Medicine, Atlanta, GA, United States, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

4 p.m.

992

MAGNETIC RESONANCE IMAGING (MRI) EVIDENCE OF WHITE MATTER INJURY IN PATIENTS WITH ACUTE UNCOMPLICATED *FALCIPARUM* MALARIA

Jiraporn Laothamatas[1], Christina L. Tosti[2], Xavier Golay[3], Marc Van Cauteren[4], Varinee Lekprasert[1], Noppadon Tangpukdee[1], Srivicha Krudsood[1], Wattana Leowattana[1], Polrat Wilairatana[1], Srirama V. Swaminathan[5], Robert L. DeLaPaz[2], Truman R. Brown[2], Sornchai Looareesuwan[1], **Gary M. Brittenham[2]**

[1]Mahidol University, Bangkok, Thailand, [2]Columbia University, New York, NY, United States, [3]National Neuroscience Institute and Singapore Bioimaging Consortium, Singapore, Singapore, [4]Philips Medical Systems Asia Pacific, Tokyo, Japan, [5]Philips Medical Systems, Cleveland, OH, United States

4:15 p.m.

993

CO-EXISTING ERYTHROCYTE POLYMORPHISMS AND SEVERE MALARIA WITH MIXED-SPECIES INFECTIONS IN MADANG, PAPUA NEW GUINEA

Sheral S. Patel[1], Harin Karunajeewa[2], Svetlana Katsnelson[3], Ivo Mueller[4], John C. Reeder[4], Timothy Davis[2]

[1]Eastern Connecticut Health Network, Manchester, CT, United States, [2]University of Western Australia, Fremantle, Australia, [3]Case Western Reserve University, Cleveland, OH, United States, [4]Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

(ACMCIP Abstract)

4:30 p.m.

994

THE PARASITOLOGY AND IMMUNOLOGY OF THE LUNGS IN FATAL *PLASMODIUM FALCIPARUM* MALARIA

Danny A. Milner[1], Steve Kamiza[2], Geraldine Pinkus[1], Malcolm Molyneux[3], Terrie Taylor[4]

[1]The Brigham and Women's Hospital, Boston, MA, United States, [2]The University of Malawi College of Medicine, Blantyre, Malawi, [3]The Malawi/Liverpool/Wellcome Trust Research Laboratories, Blantyre, Malawi, [4]Michigan State University, Department of Internal Medicine, East Lansing, MI, United States

(ACMCIP Abstract)

4:45 p.m.

995

IMPAIRED ENDOTHELIAL FUNCTION IN ADULTS WITH SEVERE *FALCIPARUM* MALARIA IN PAPUA, INDONESIA

TW Yeo[1], DA Lampah[2], E. Kenangalem[3], R. Gitawati[4], G. Waramori[5], Y. McNeil[1], S. Duffull[6], E. Tjitra[4], RN Price[7], D. Celermajer[8], NM Anstey[1]

[1]Menzies School of Health Research, Darwin, Australia, [2]National Institutes of HealthRD-MSHR Research Programme, Timika, Indonesia, [3]Dinas Kesehatan Kabupaten, Mimika, Indonesia, [4]National Institute of Health Research and Development, Jakarta, Indonesia, [5]International SOS, Timika, Indonesia, [6]University of Queensland, Brisbane, Australia, [7]Oxford University, Oxford, United Kingdom, [8]University of Sydney, Sydney, Australia

5 p.m.

996

IMPAIRED CYTOADHERENCE OF *PLASMODIUM FALCIPARUM*-INFECTED ERYTHROCYTES: IMPLICATIONS FOR THE MALARIA PROTECTIVE EFFECT OF SICKLE TRAIT

Rushina Cholera, Rick M. Fairhurst, Nathaniel J. Brittain, Takayuki Arie, James A. Dvorak, Thomas E. Wellems

Laboratory of Malaria and Vector Research/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

5:15 p.m.

997

IMPACT OF NATURALLY ACQUIRED *PLASMODIUM FALCIPARUM* HEMOZOIN ON HEMATOLOGICAL COMPLICATIONS IN INFANTS AND YOUNG CHILDREN WITH MALARIA IN A HOLOENDEMIC TRANSMISSION AREA

Yamo E. Ouma[1], Richard O. Otieno[2], Collins Ouma[2], Gordon A. Awandare[3], Christopher C. Keller[3], Zippora Ng'ang'a[4], John Michael Ong'echa[2], Douglas J. Perkins[3]

[1]University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases and Kenyatta University, kisumu, Kenya, [2]University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, [3]University of Pittsburgh Graduate School of Public Health, Department of Infectious Diseases and Microbiology, Pittsburgh, PA, United States, [4]Kenyatta University, Nairobi, Kenya

(ACMCIP Abstract)

Scientific Session 118

Malaria — Chemotherapy

Marquis 4

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

CHAIR

Moses R. Kamya

Makerere University, Kampala, Uganda

Clara Menendez

Center for International Health, Barcelona, Spain

3:45 p.m.

998

MALARIA DIAGNOSTICS CENTRE FOR EXCELLENCE: MICROSCOPY OBJECTIVE TESTING RESULTS AND PLANS FOR CERTIFICATION

Colin Ohrt[1], Bernhards Ogutu[2], Kurt Martin[3], Peter Obare[2], Christine Adiambo[2], Ken Awando[4], Wendy Prudhomme[5], Shon Remich[6], Jean Paul Chretien[7], Carmen Lucas[8], Joseph Osoga[2], Peter McEvoy[9], James Sande Odera[2], Martin Lucas[10], Ampon Nanakorn[11]

[1]Walter Reed Army Institute of Research, Germantown, MD, United States, [2]Kenya Medical Research Institute, Kisumu, Kenya, [3]US Army Medical Research Unit - Kenya, Kisumu, Kenya, [4]Wellcome Trust, Kilifi, Kenya, [5]Fogarty Center, National Institutes of Health, Bethesda, MD, United States, [6]US Army Medical Research Unit - Kenya, Nairobi, Kenya, [7]Walter Reed Army Institute of Research, Silver Spring, MD, United States, [8]Naval Medical Research Center Detachment, Lima, Peru, [9]Armed Forces Institute of Pathology, Washington, DC, United States, [10]Centers for Disease Control and Prevention, Kisumu, Kenya, [11]Armed Forces Research Institute of Medical Science, Bangkok, Thailand

4 p.m.

999

THE ANTIMALARIAL EFFECT OF HIV NRTIS ON *PLASMODIUM FALCIPARUM*

Dylan R. Pillai, Philip J. Rosenthal, Joseph L. DeRisi

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

4:15 p.m.

1000

EVALUATION OF HOME-BASED MANAGEMENT OF FEVER IN URBAN UGANDAN CHILDREN

Sarah Staedke[1], Norah Mwebaza[1], Moses Kamya[2], Grant Dorsey[3], Philip Rosenthal[3], Christopher Whitty[4]

[1]Makerere University-University of California San Francisco Research Collaboration, Kampala, Uganda, [2]Makerere University, Kampala, Uganda, [3]University of California, San Francisco, San Francisco, CA, United States, [4]London School of Hygiene & Tropical Medicine, London, United Kingdom

4:30 p.m.

1001

IMPACT OF INTERMITTENT PREVENTIVE TREATMENT WITH SULFADOXINE-PYRIMETHAMINE PLUS INSECTICIDE TREATED NETS, DELIVERED THROUGH ANTENATAL CLINICS, FOR THE PREVENTION OF MALARIA IN MOZAMBICAN PREGNANT WOMEN

Clara Menéndez[1], Azucena Bardají[2], Sonia Machevo[3], Sonia Amós[4], Cleofé Romagosa[2], María Maixenchs[3], Eusebio Macete[3], Betuel Sigauque[3], Elisa Tembe[4], Ana Berenguera[2], Sergi Sanz[2], John Aponte[2], Pedro L. Alonso[2]

[1]International Health Centre, Barcelona, Spain, [2]International Health Centre, IDIBAPS, Barcelona, Spain, [3]Manhiça Health Research Centre, Manhiça, Mozambique, [4]Manhiça Health Centre, Manhiça, Mozambique

4:45 p.m.

1002

SINGLE DOSE SULFADOXINE-PYRIMETHAMINE OR ARTHEMETER-LUMEFANTRINE IN INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN UNDER FIVE CHILDREN IN A HIGH AND SEASONAL MALARIA TRANSMISSION AREA OF BURKINA FASO

Ouédraogo Alphonse

Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso

5 p.m.

1003

ERYTHROPOIETIN-ARTESUNATE DRUG COMBINATION FOR MURINE CEREBRAL MALARIA

Anne-Lise Bienvenu, karine kaiser, Josette Ferrandiz, Christine Latour, **Stephane Picot**

University Claude Bernard, Faculty of Medicine, Lyon, France

(ACMCIP Abstract)

5:15 p.m.

1004

A REPRODUCIBLE MURINE MODEL FOR *P. FALCIPARUM* MALARIA

Iñigo Angulo-Barturen[1], Mª Belén Jiménez-Díaz[1], Teresa Mulet[1], Joaquín Rullas[1], Esperanza Herreros[1], Santiago Ferrer[1], Elena Jiménez[1], Antonio Martínez[1], Javier Regadera[2], Philip J. Rosenthal[3], David L. Pompliano[4], Federico Gómez de las Heras[1], Domingo Gargallo-Viola[1]

[1]GlaxoSmithKline I+D, SL, Tres Cantos (Madrid), Spain, [2]Department of Anatomy, Histology and Neuroscience, Faculty of Medicine, Universidad Autónoma de Madrid, Madrid, Spain, [3]Department of Medicine, San Francisco General Hospital, University of California, San Francisco, CA, United States, [4]GlaxoSmithKline, Collegeville, PA, United States

Symposium 119

Progress in the Clinical Management of Alveolar Echinococcosis

International 7

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

Alveolar Echinococcosis (AE) is one of the most severe helminthic infections in humans. Diagnosis at a late stage, complications and difficult clinical management of AE largely contribute to the unfavorable disease burden. The PNM-classification and staging of the disease as well as recent advances in diagnostic tools, i.e. Em18 serology and imaging (Positron-Emission-Tomography) contribute to a better stratification of the patients and to an optimized management. This symposium is designed to update the progress and to discuss new diagnostic and therapeutic options.

CHAIR

Peter Kern

University of Ulm, Ulm, Germany

Peter M. Schantz

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

3:45 p.m.

INTRODUCTION

Peter Kern

University of Ulm, Ulm, Germany

Peter M. Schantz

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

3:55 p.m.

INTRODUCTION: GLOBAL IMPACT OF ALVEOLAR ECHINOCOCCOSIS

Christine M. Budke

Texas A&M, College Station, TX, United States

4:10 p.m.

SEROLOGICAL AND MOLECULAR TOOLS FOR DIAGNOSIS

Akira Ito

Asahikawa Medical College, Asahikawa, Japan

4:30 p.m.

PROGRESS IN IMAGING AND CLASSIFICATION

Stefan Reuter

University Hospital and Medical Center, Ulm, Germany

4:50 p.m.

CLINICAL MANAGEMENT AND CRITICAL REAPPRAISAL OF LIVER TRANSPLANTATION

Solange Bresson-Hadni

University of Franche-Comte, Besancon, France

5:10 p.m.

CURRENT AND PROSPECTIVE TOOLS FOR THERAPY

Andrew Hemphill

University of Berne, Berne, Switzerland

Scientific Session 120

Flavivirus III — Dengue II

Marquis 1

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

CHAIR

Carol D. Blair

Colorado State University, Fort Collins, CO, United States

Robert Gibbons

Armed Forces Research Institute for Medical Sciences, Bangkok, Thailand

3:45 p.m.

1005

IMMUNOPATHOGENESIS OF SYMPTOMATIC DENGUE IN THE FIRST 18 MONTHS OF LIFE

Chau N. Tran[1], Hung Thanh Nguyen[2], Thuy Thi Le[3], Tuan Minh Nguyen[2], Bao Tan Le[2], Lien Bich Le[2], My Thi Lam[2], Cam Van Bach[2], Hoang Minh Dang[1], Jeremy Farrar[1], Cameron Simmons[1]

[1]Clinical Research Unit, Hospital for Tropical Diseases, HoChiMinh, Vietnam, [2]Paediatric Hospital 1, HoChiMinh, Vietnam, [3]Paediatric Hospital 2, HoChiMinh, Vietnam

4 p.m.

1006

SPECTRUM AND KINETIC OF T CELL RESPONSES TO DENGUE VIRUS EPITOPES AND THE INFLUENCE OF HLA POLYMORPHISMS IN DENGUE DISEASE PATHOGENESIS

Dung Nguyen[1], Tao Dong[2], Van Vinh Chau Nguyen[3], Minh Dung Nguyen[3], Bridget Wills[1], Sarah Rowland-Jones[2], Jeremy Farrar[1], Cameron Simmons[1]

[1]Clinical Research Unit, Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, [2]Institute for Molecular Medicine, Nuffield Department of Clinical Medicine, John Radcliffe Hospital, University of Oxford, Oxford, United Kingdom, [3]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

(ACMCIP Abstract)

4:15 p.m.

1007

GLOBAL GENE EXPRESSION PROFILES DURING ACUTE DENGUE REVEALED BY MICROARRAY ANALYSIS

Long T. Hoang[1], Martin L. Hibberd[2], Jeremy Farrar[1], Cameron P. Simmons[1]

[1]Oxford University Clinical Research Unit, Vietnam, Ho Chi Minh city, Vietnam, [2]Genome Institute of Singapore, Singapore, Singapore

4:30 p.m.

1008

GENE EXPRESSION PROGRAMS IN ADULTS WITH ACUTE DENGUE INFECTIONS

Stephen Popper[1], Cameron P. Simmons[2], Christiane Dolecek[2], Tran Nguyen Bich Chau[2], Michael Griffiths[1], Nguyen Thi Phuong Dung[2], Truong Hoang Long[2], Dang Minh Hoang[2], Nguyen Van Vinh Chau[3], Le Thi Thu Thao[3], Tran Tinh Hien[3], David A. Relman[1], Jeremy Farrar[2]

[1]Stanford University School of Medicine, Stanford, CA, United States, [2]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [3]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

4:45 p.m.

1009

A GENETIC ASSOCIATION STUDY OF DHF AND SEVERE DENGUE

Ronald E. Blanton[1], Luciano K. Silva[2], Vanessa Morato[3], Juarez P. Dias[4], Paulo S. Melo[5], Antonio R. Parrado[1], Eliana A. Reis[5], Katrina A. Goddard[1], Márcio R. Nunes[6], Sueli G. Rodrigues[6], Pedro F. Vasconcelos[6], Jesuina M. Castro[4], Mitermayer G. Reis[5], Maurício L. Barreto[3], Maria G. Teixeira[3]

[1]Case University, Cleveland, OH, United States, [2]Centro Universitário da Bahia, Salvador, Brazil, [3]Universidade Federal da Bahia, Salvador, Brazil, [4]Secretaria da Saúde do Estado da Bahia, Salvador, Brazil, [5]Fundação Oswaldo Cruz, Salvador, Brazil, [6]Instituto Evandro Chagas, Belém, Brazil

5 p.m.

1010

AB BLOOD GROUP APPEARS TO BE A RISK FACTOR FOR SEVERE DENGUE DISEASE IN SECONDARY DENGUE INFECTION

Robert V. Gibbons[1], Chuanpis Ajariyakhajorn[1], Ananda Nisalak[1], Richard G. Jarman[1], Sharone Green[2], Mammen P. Mammen[1], Guey Chuen Perng[1]

[1]US Army Medical Component, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, [2]Center for Infectious Disease and Vaccine Research, University of Massachusetts Medical School, Worcester, MA, United States

5:15 p.m.

1011

RELATIONSHIP OF DENGUE RECEPTORS IN MOSQUITOES WITH VECTOR COMPETENCE

Ricardo F. Mercado-Curiel[1], Héctor A. Esquinca-Avilés[2], Alvaro Diaz-Badillo[3], Minerva Camacho-Nuez[4], William C. Black[5], Barry Beaty[5], **María L. Munoz[1]**

[1]Centro de Investigacion y de Estudios Avanzados del IPN, Mexico D. F., Mexico, [2]Laboratory of Molecular Genetics, Universidad Autónoma de Chiapas, Chiapas, Mexico, [3]Centro de Investigación en Ciencia Aplicada y Tecnología Avanzada del IPN, Mexico D. F., Mexico, [4]Genomic Sciences Program , Universidad Autónoma de la Ciudad de México, Mexico D. F., Mexico, [5]Colorado State University, Fort Collins, CO, United States

Symposium 121

Advances in Japanese Encephalitis Virus Immunization

Marquis 2

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

Japanese encephalitis virus (JEV) remains a considerable health problem in a vast geographical area. JEV poses unique risks to both civilian travelers and military personnel who visit or are deployed to endemic countries, as well as to persons who reside in such high risk countries. Intercell AG is developing a second generation, purified, inactivated JEV vaccine. Pivotal Phase 3 clinical trials with this novel JEV vaccine have been completed. This symposium will review the risks of JEV to various target populations, provide an update on Phase 3 clinical development with Intercell's novel JEV vaccine and discuss recommendations for use of this new vaccine when licensed by regulatory authorities in the near future.

CHAIR

Archie C. Robinson
Intercell AG, Skillman, NJ, United States

David R. Shlim
Jackson Hole Travel and Tropical Medicine, Jackson, WY, United States

3:45 p.m.

INTRODUCTION

David Shlim
Jackson Hole Travel and Tropical Medicine, Jackson, WY, United States

3:50 p.m.

BURDEN OF JE IN SOUTHEAST ASIA: THE ROLE OF NGOS IN THE FIGHT AGAINST THIS DISEASE

Julie Jacobson
PATH, Seattle, WA, United States

4:10 p.m.

JEV RISKS AND VACCINATION PROGRAMS FOR US TROOPS

Charmagne G. Beckett
Naval Medical Research Center, Silver Spring, MD, United States

4:30 p.m.

JE: A PERSISTENT DILEMMA FOR TRAVEL MEDICINE PRACTITIONERS

David R. Shlim
Jackson Hole Travel and Tropical Medicine, Jackson, WY, United States

4:55 p.m.

UPDATE ON INTERCELL'S JEV VACCINE DEVELOPMENT

Erich Tauber
Intercell AG, Vienna, Austria

5:20 p.m.

QUESTIONS AND ANSWERS

David Shlim
Jackson Hole Travel and Tropical Medicine, Jackson, WY, United States

Symposium 122

Refugee and Immigrant Health Issues in the United States and Canada II

Hilton Hotel – Grand Salon A

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

This two-part clinical care symposium will cover health care issues in refugees and immigrants in the U.S. and Canada. The symposium will address the burden of disease in refugee camps and its impact on health in the United States and other host countries. Changes in the screening and empirical treatment of refugees prior to departure to the U.S. and Canada will be reviewed. In addition, epidemiology regarding the burden of vaccine preventable disease, tuberculosis, malaria and geohelminthic infection will be reviewed. Diagnosis and medical treatment of refugees and immigrants in the U.S. and Canada will be reviewed. This session will also address the difficulties in diagnosing disease among patients who have previously been exposed to tropical diseases and who have limited access to care.

CHAIR

Theresa Ann Townley
Creighton University, Omaha, NE, United States

3:45 p.m.

CASE PRESENTATIONS — IS THIS A TROPICAL DISEASE OR SOMETHING ELSE?

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

4:10 p.m.

HEPATITIS B AMONG REFUGEES AND IMMIGRANTS

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

4:35 p.m.

BURDEN OF GEOHELMINTHIC DISEASE AMONG REFUGEES AND IMMIGRANTS

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

4:55 p.m.

TUBERCULOSIS INFECTION AMONG IMMIGRANTS IN THE UNITED STATES

Kamran Khan
St. Michael's Hospital, Toronto, ON, Canada

Scientific Session 124

Mosquitoes — Biochemistry, Molecular Biology and Molecular Genetics II

Hilton Hotel – Grand Salon C

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

CHAIR

Jason Rasgon

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

Michael Riehle

University of Arizona, Tucson, AZ, United States

3:45 p.m.

1012

ANOPHELES GAMBIAE GENE EXPRESSION IS QUALITATIVELY AND QUANTITATIVELY AFFECTED BY INFECTION WITH _WOLBACHIA_ ENDOSYMBIONTS: INSIGHTS FROM AN _IN VITRO_ SYSTEM

Jason L. Rasgon, Xiaoxia Ren, Courtney Gamston, Michael Petridis

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

(ACMCIP Abstract)

4 p.m.

1013

PATTERN RECOGNITION DIVERSITY IN THE _ANOPHELES GAMBIAE_ INNATE IMMUNE SYSTEM

Yuemei Dong, George Dimopoulos

Johns Hopkins University, Baltimore, MD, United States

4:15 p.m.

1014

POPULATION GENOMICS OF CHROMOSOMAL INVERSIONS IN _ANOPHELES GAMBIAE_

Bradley J. White[1], Matthew W. Hahn[2], Karine Mouline[1], Bryan J. Cassone[1], Marco Pombi[3], Frederic Simard[4], Allesandra della Torre[3], Nora J. Besansky[1]

[1]University of Notre Dame, Notre Dame, IN, United States, [2]University of Indiana, Bloomington, IN, United States, [3]University of Rome La Sapienza, Rome, Italy, [4]IRD-UR016/OCEAC, Yaounde, Cameroon

4:30 p.m.

1015

MOSQUITO MICRORNAS: POSSIBLE ROLES IN DEVELOPMENT AND PHYSIOLOGICAL EVENTS TRIGGERED BY BLOOD FEEDING

Zhijian J. Tu, Song Li, Randy Saunders

Virginia Tech, Blacksburg, VA, United States

4:45 p.m.

1016

SEQUENCING THE GENOME OF _AEDES AEGYPTI_ — THE YELLOW FEVER MOSQUITO

Neil F. Lobo[1], Bruce W. Birren[2], Brendan J. Loftus[3], Vish Nene[3], Frank H. Collins[1], David W. Severson[1]

[1]University of Notre Dame, Notre Dame, IN, United States, [2]Broad Institute, Cambridge, MA, United States, [3]Institute for Genomic Research (TIGR), Rockville, MD, United States

5 p.m.

1017

MOLECULAR CLONING OF THE 2RJ INVERSION BREAKPOINTS IN THE BAMAKO CHROMOSOMAL FORM OF _ANOPHELES GAMBIAE_

Mamadou Coulibaly[1], Neil F. Lobo[2], Marcia Kern[2], Maria Sharakhova[3], Young Hong[4], Olga Grushko[5], Djibril Sangare[2], Meagan Fitzpatrick[2], Sekou F. Traore[1], Jose Ribeiro[6], Frank H. Collins[2], Nora J. Besansky[2]

[1]Malaria Research and Training Center, Bamako, Mali, [2]Center for Global Health and Infectious Diseases, University of Notre Dame, South Bend, IN, United States, [3]Virginia Tech, Blacksburg, VA, United States, [4]Tulane University, New Orleans, LA, United States, [5]University of Michigan, Ann Arbor, MI, United States, [6]National Institutes of Health, Bethesda, MD, United States

5:15 p.m.

1018

THE ANTI-MALARIA EFFECT OF _ANOPHELES GAMBIAE_ LEUCINE-RICH REPEAT PROTEIN APL1 IS MEDIATED BY MAP KINASE-RELATED SIGNALING PATHWAYS

Jiannong Xu, Michelle M. Riehle, Kenneth D. Vernick

University of Minnesota, St Paul, MN, United States

Symposium 125

Merozoite Invasion of Erythrocytes

Hilton Hotel – Grand Salon D

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

Post-genomic studies of merozoite invasion of erythrocytes will be emphasized, with special focus on the classical *Plasmodium knowlesi* invasion model and *P. vivax*, as well as *P. falciparum*. Unlike *P. vivax* and *P. falciparum*, *P. knowlesi* merozoites can be captured in the process of invading red blood cells, making this species special for understanding the molecular process of invasion. Genomic and proteomic tools, and transgenic technologies including electron microscopy, combined with traditional methods, are enabling the quick identification and functional characterization of novel proteins involved in merozoite invasion of erythrocytes. Several unique *P. vivax* and *P. knowlesi* merozoite proteins involved in invasion will be presented along with immuno-electron microscopy experiments, demonstrating for the first time proteins being localized as parasites are invading host cells. Finally, latest developments on the use of an *in vitro* culture system for *P. vivax* merozoite invasion studies will be presented.

CHAIR

Mary R. Galinski

Emory University, Atlanta, GA, United States

John H. Adams

University of Notre Dame, Notre Dame, IN, United States

3:45 p.m.

SECRETION AND MOTILITY: A NEW LOOK AT THE MOVING JUNCTION IN RED CELL INVASION BY MALARIA MEROZOITES

Lawrence H. Bannister

GKT School of Biomedical Sciences, London, United Kingdom

4:10 p.m.

THE *P. KNOWLESI* MEROZOITE PROTEOME: LEADS FOR INVASION MOLECULES

Clemens H.M. Kocken

Biomedical Primate Research Center, Rijswijk, The Netherlands

4:35 p.m.

PROTEOMIC IDENTIFICATION OF NOVEL APICALLY LOCALIZED MEROZOITE PROTEINS IN *P. KNOWLESI* AND *P. VIVAX*

Cindy C. Korir

Emory University, Atlanta, GA, United States

4:55 p.m.

NEW DEVELOPMENTS IN *P. VIVAX* DUFFY BINDING PROTEIN — DARC INTERACTIONS

Christopher L. King

Case Western Reserve University, Cleveland, OH, United States

Symposium 126

Getting a Grip on Zoonoses

Hilton Hotel – Grand Salon E

Wednesday, November 15 3:45 p.m. – 5:30 p.m.

The symposium will review and update efforts to diagnose, control and prevent tropical zoonoses including cysticercosis, leptospirosis, rift valley fever, tularemia and anthrax. Multidisciplinary research focusing on control of these diseases incorporating epidemiology, laboratory diagnostics and vaccinology will be presented.

CHAIR

Patricia Wilkins

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

3:45 p.m.

INTRODUCTION

Patricia Wilkins

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

3:50 p.m.

NEUROCYSTICERCOSIS: INTEGRATING LABORATORY TOOLS WITH FIELD OPERATIONS TO ELIMINATE A TAPEWORM DISEASE

Victor Tsang

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

4:10 p.m.

LEPTOSPIROSIS: DEVELOPING A GLOBAL RESEARCH AGENDA

Joseph M. Vinetz

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

4:30 p.m.

RIFT VALLEY FEVER: ADVANCES IN MOLECULAR BIOLOGY INFORM VACCINE DESIGN

Clarence J. Peters

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

4:50 p.m.

TULAREMIA: UNDERSTANDING NATURALLY OCCURRING DISEASE CAN INFORM EMERGENCY PREPAREDNESS

Paul S. Mead

Centers for Disease Control and Prevention, Ft. Collins, CO, United States

5:10 p.m.

ANTHRAX: UNDERSTANDING NATURALLY OCCURRING DISEASE CAN INFORM EMERGENCY PREPAREDNESS

Sean Shadomy

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

Plenary Session IV: Presidential Address and Annual Business Meeting

Marquis Ballroom

Wednesday, November 15 6:00 p.m. – 7:30 p.m.

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 Guerrant

University of Virginia, Charlottesville, VA, United States

6:15 p.m.

ONCE UPON A TIME, ABOUT 50,000 YEARS AGO

Myron M. Levine

University of Maryland School of Medicine, Baltimore, MD, 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

International and Skyline Levels

Wednesday, November 15 7:00 p.m. – 8:00 p.m.

Thursday, November 16

Registration

Marquis Foyer

Thursday, November 16 7:00 a.m. – 10:30 a.m.

Cyber Café

Garden Level South

Thursday, November 16 7:00 a.m. – 10:30 a.m.

Speaker Ready Room

International B/C

Thursday, November 16 7:00 a.m. – Noon

ASTMH Council Meeting

Summit

Thursday, November 16 7:30 a.m. – 9:30 a.m.

Scientific Session 127

Filariasis III — Immunology

International 5/6

Thursday, November 16 8:00 a.m. – 9:45 a.m.

CHAIR

Klaus D. Erttmann

Bernhard-Nocht-Institute for Tropical Medicine, Hamburg, Germany

Christopher L. King

Case Western Reserve University, Cleveland, OH, United States

8 a.m.

1019

LIVE MICROFILARIAE OF *BRUGIA MALAYI* DOWNREGULATE THE GENE EXPRESSION OF TLR3, 4, 5 AND 7, AND DIMINISH THE PRODUCTION OF CYTOKINES IN RESPONSE TO A TLR3 LIGAND

Priyanka Goel, Joseph Kubofcik, Thomas B. Nutman, Roshanak Tolouei Semnani

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

(ACMCIP Abstract)

8:15 a.m.

1020

FILARIAL PARASITES INDUCE EARLY ACTIVATION, CYTOKINE PRODUCTION, AND SUBSEQUENT APOPTOSIS OF HUMAN NK CELLS

Subash Babu, Carla P. Blauvelt, Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

8:30 a.m.

1021

LIVE MICROFILARIAE OF *BRUGIA MALAYI* INDUCE APOPTOSIS IN HUMAN DENDRITIC CELLS THROUGH A TNF- AND TRAIL-DEPENDENT MECHANISM AND PROMOTE THE DEVELOPMENT OF REGULATORY T CELLS

Roshanak T. Semnani, Priyanka Goel, Joseph Kubofcik, Thomas B. Nutman

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

(ACMCIP Abstract)

8:45 a.m.

1022

CLONING AND CHARACTERIZATION OF A HUMAN IL5 RECEPTOR BINDING PROTEIN FROM *BRUGIA MALAYI*

Gnanasekar Munirathinam[1], Thomas B. Nutman[2], Sara Lustigman[3], Ramaswamy Kalyanasundaram[1]

[1]University of Illinois, Rockford, IL, United States, [2]National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, [3]Lindsley F. Kimball Research Institute, New York Blood Center, New York, NY, United States

(ACMCIP Abstract)

9 a.m.

1023

PATTERNS OF ACTIVATION TO THE IMMUNODOMINANT PROTEIN SXP1 FROM LOA LOA

Cathy Steel, Amy D. Klion, Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

9:15 a.m.

1024

ADJUVANT EFFECTS OF THE *ONCHOCERCA VOLVULUS* RECOMBINANT *OV*-ASP-1 PROTEIN

Sara Lustigman, Yuxian He, Long Cao, Shibo Jiang

New York Blood Center, New York, NY, United States

(ACMCIP Abstract)

9:30 a.m.

1025

COMPARISON OF IMMUNO PROPHYLACTIC EFFICACY OF *BM* R ALT2 OR BM RVAH OR RALT + VAH BY SINGLE AND MULTIPLE ANTIGEN VACCINATION MODE

Setty Balakrishnan Anand[1], K.N. Krithika[2], Vadivel Murugan[1], M. V. Reddy[2], Perumal Kaliraj[1]

[1]Anna University, Chennai, India, [2]Mahatma Ghandi Institute of Medical Sciences, Sevagram, India

(ACMCIP Abstract)

Symposium 128

The Final Leg: New Fixed-Dose Artesunate-Based Combination Therapies to Treat Falciparum Malaria

Copenhagen/Stockholm/Amsterdam

Thursday, November 16 8:00 a.m. – 9:45 a.m.

Killing between one and two million people every year, malaria remains an international burden and challenge to public health and poverty. According to recent evidence-based guidelines made by the WHO in 2006, artemisin-based combination therapies must be used to treat uncomplicated falciparum malaria because of the reduced efficacy of other available therapies and the concern over emergent parasitic resistance. The Fixed-dose Artesunate-based Combination Therapies (FACT) project was devised to catalyze changes in antimalarial policy and implementation by developing two effective, safe, viable, affordable, and adapted fixed-drug combinations (FDCs). These two FDCs developed by the Drugs for Neglected Diseases Initiative, artesunate-amodiaquine and artesunate-mefloquine, are in the last phase of development and ready for registration. Obtaining rapid registration of these new combinations, ensuring their availability and above all adoption by malaria-endemic countries are challenges to overcome in the coming year.

CHAIR

Jean-Rene Kiechel

Drugs for Neglected Diseases Initiative, Geneva, Switzerland

Nicholas J. White

Wellcome Research Unit, Bangkok, Thailand

8 a.m.

FACT: PUBLIC AND PRIVATE PARTNERSHIPS IN R&D FOR MALARIA

Jean-René Kiechel

Drugs for Neglected Diseases Initiative, Geneva, Switzerland

8:25 a.m.

HNV STUDY: BIOPHARMACEUTICAL QUALITY OF FDC IN PATIENTS AND POP PK EVALUATION FOR AS/MQ, MALAYSIA

Visweswaran Navaratnam

University Sains Malaysia, Centre for Drug Research, Pulau Pinang, Malaysia

8:50 a.m.

PHARMACOKINETICS, EFFICACY AND TOLERANCE IN PATIENTS OF LOOSE VS. FIXED-DOSE AS/MQ IN BANGKOK, THAILAND

Srivicha Krudsood

University of Mahidol, Bangkok, Thailand

9:15 a.m.

A 5-YEAR SURVEY OF EFFICACY, TOLERABILITY AND PHARMACO-VIGILANCE OF *P. FALCIPARUM* WITH AS/AQ IN CASAMANDE, SENEGAL

Philippe Brasseur

Institute de Recherche pour le Developpement (IRD), Dakar, Senegal

Scientific Session 129

Kinetoplastida II: Epidemiology, Diagnosis and Treatment

Marquis 3

Thursday, November 16 8:00 a.m. – 9:45 a.m.

CHAIR

Caryn Bern

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

Sarah Williams-Blangero

Southwest Foundation for Biomedical Research, San Antonio, TX, United States

8 a.m.

1026

IDENTIFYING CHAGAS DISEASE INFECTION IN CHILDREN DURING A SPRAY CAMPAIGN

Michael Z. Levy[1], Vivian Kawai[2], Natalie M. Bowman[2], Lilia Cabrera[2], Lance A. Waller[3], Eleazar Cordova[4], Juan Cornejo del Carpio[4], Robert H. Gilman[5], Caryn Bern[6]

[1]Centers for Disease Control and Prevention, Philadelphia, PA, United States, [2]AB PRISMA, Lima, Peru, [3]Emory University, Atlanta, GA, United States, [4]Arequipa Regional Office of the Ministry of Health, Arequipa, Peru, [5]Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States, [6]Centers for Disease Control and Prevention, Atlanta, GA, United States

8:15 a.m.

1027

GENETIC FACTORS INFLUENCING CHAGAS DISEASE IN A BRAZILIAN POPULATION

Sarah Williams-Blangero[1], John VandeBerg[1], John Blangero[1], Rodrigo Correa-Oliveira[2]

[1]Southwest Fdn Biomed Res., San Antonio, TX, United States, [2]Centro de Pesquisas, Rene Rachou, FIOCRUZ, Belo Horizonte, Brazil

8:30 a.m.

1028

CHAGAS DISEASE IN DOGS IN SOUTHERN LOUISIANA

Prixia Nieto[1], Patricia Dorn[2], John B. Malone[1], Edson Goncalves[3]

[1]Louisiana State University, Baton Rouge, LA, United States, [2]Loyola University, New Orleans, LA, United States, [3]Universidade Estadual Paulista, Jaboticabal, Brazil

(ACMCIP Abstract)

8:45 a.m.

1029

MYOCARDITIS IN PATIENTS WITH HUMAN AFRICAN *TRYPANOSOMIASIS* (*T.B.GAMBIENSE*)

Johannes A. Blum[1], Christian Burri[1], Michael J. Zellweger[2]

[1]Swiss Tropical Institute, Basel, Switzerland, [2]Universitätsklinik, Basel, Switzerland

9 a.m.

1030

CLINICAL AND IMMUNOLOGICAL EFFECTS OF PREGNANCY ON *LEISHMANIA BRAZILIENSIS* CUTANEOUS LEISHMANIASIS

Daniel J. Morgan[1], Luiz H. Guimarães[2], Paulo R. Machado[2], Olivia Bacellar[2], Dani R. Farias[3], Walderez O. Dutra[3], Edgar M. Carvalho[2]

[1]Cornell University/Weill Medical College, New York, NY, United States, [2]Universidade Federal da Bahia, Salvador, Brazil, [3]Universidade Federal de Minas Gerais, Belo Horizonte, Brazil

9:15 a.m.

1031

MILTEFOSINE (IMPAVIDO®) IN THE TREATMENT OF MUCOCUTANEOUS AND CUTANEOUS *LEISHMANIASIS* IN BOLIVIA

Julia Toledo[1], Jaime Soto[1], Paula Soto[2], Margarita Balderama[3], Ivan Rea[3], Ana Gomez[4], **Jaime Soto[2],** Rolando Parra[4], Luis Valda[5], Ninoshtka Guillen[5], Gerlind Anders[6], Herbert Sindermann[6], Jürgen Engel[6], Jonathan Berman[7]

[1]CIBIC (Consorcio de Investigaciones Bioclinicas), Bogota, Colombia, [2]CIBIC (Consorcio de Investigciones Bioclinicas), Bogota, Colombia, [3]Proyecto OSCAR, Palos Blancos, Bolivia, [4]Hospital Palos Blancos, Palos Blancos, Bolivia, [5]Hospital de Clinicas, La Paz, Bolivia, [6]Zentaris, Frankfurt, Germany, [7]National Center For Complementary and Alternative Medicine, National Institutes of Health, Bethesda, MD, United States

9:30 a.m.

1032

COMPARISON OF MILTEFOSINE (IMPAVIDO®) AND MEGLUMINE ANTIMONATE (GLUCANTIME®) FOR THE TREATMENT OF ZOONOTIC CUTANEOUS LEISHMANIASIS BY A RANDOMIZED CLINICAL TRIAL IN IRAN

Mehdi Mohebali[1], A. Fotouhi[1], B. Hooshmand[2], Z. Zarei[1], A. Rahnama[3], A. Razaghian[3], B. Akhoundi[1], M. J. Kabir[3], A. Nadim[1]

[1]School of Public Health Research, Tehran University of Medical Sciences, Department of Medical Parasitology, Tehran, Islamic Republic of Iran, [2]Head of Zoonoses Control Office, Diseases Management Office, Ministry of Health, Treatment and Medical Education, Iran, Tehran, Islamic Republic of Iran, [3]Health Center, Golestan Province, North-Eastern Iran, Islamic Republic of Iran

Scientific Session 130

Clinical Tropical Medicine III

Marquis 4

Thursday, November 16 8:00 a.m. - 9:45 a.m.

CHAIR

Enrico Brunetti

University of Pavia, Pavia, Italy

Marianna Wilson

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

8 a.m.

1033

EFLORNITHINE FOR FIRST-LINE TREATMENT OF SLEEPING SICKNESS: COHORT ANALYSIS OF 1055 PATIENTS IN IBBA, SUDAN

Gerardo Priotto[1], Loretxu Pinoges[1], Isaac B. Fursa[2], Barbara Burke[3], Nathalie Nicolay[1], Guillaume Grillet[3], Cathy Hewison[3]

[1]Epicentre, Paris, France, [2]Médecins Sans Frontières, Ibba, Sudan, [3]Médecins Sans Frontières, Paris, France

8:15 a.m.

1034

EFFECT OF MASS DRUG ADMINISTRATION ON TRANSMISSION OF LYMPHATIC *FILARIASIS* IN MADANG PROVINCE OF PAPUA NEW GUINEA

Moses J. Bockarie[1], Gary J. Weil[2], Will Kastens[3], Melinda Susapu[3], Henry Dagoro[3], Nandao Tarongka[3], Moses Baisor[3], Edwin Michael[4], Christopher King[1], James W. Kazura[1]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Washington University, St. Louis, MO, United States, [3]Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, [4]Imperial College School of Medicine, London, United Kingdom

8:30 a.m.

1035

DOES TIMING MATTER? LESION DURATION AND THE RESPONSE TO ANTIMONIAL TREATMENT FOR AMERICAN CUTANEOUS *LEISHMANIASIS* IN NORTHEASTERN BRAZIL

Alon Unger[1], Seth O'Neal[2], Luiz H. Guimarães[3], Paulo R. Machado[3], Leda Alcantara[4], Daniel J. Morgan[5], Sara Passos[3], Edgar M. Carvalho[3]

[1]University of California—San Francisco, San Francisco, CA, United States, [2]Oregon Health and Sciences University, Portland, OR, United States, [3]Hospital Universitário Professor Edgard Santos, Salvador, Brazil, [4]Universidade da Bahia, Salvador, Brazil, [5]Weill Medical College of Cornell University, New York, NY, United States

8:45 a.m.

1036

CLINICAL MANAGEMENT OF CYSTIC *ECHINOCOCCOSIS*: LONG-TERM EXPERIENCE IN A SINGLE CENTER

Enrico Brunetti, Chiara Gasparetto, Antonella Grisolia, Giuliana Troìa, Carlo Filice

Division of Infectious and Tropical Diseases, University of Pavia, Scientific Institute for Research, Hospitalisation and Health Care S.Matteo, Pavia, Italy

9 a.m.

1037

LABORATORY INVESTIGATION OF DONORS INVOLVED IN *BABESIA MICROTI* INFECTIONS ACQUIRED BY BLOOD TRANSFUSION

Marianna Wilson[1], Stephanie Johnston[1], Susan Slemenda[1], Kimberly Won[1], Kolby Sanders-Lewis[1], Henry Bishop[1], Alexandre J. da Silva[1], Norman J. Pieniazek[1], Carolyn Young[2], Barbara Herwaldt[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Rhode Island Blood Center, Providence, RI, United States

9:15 a.m.

1038

***TRYPANOSOMA CRUZI* IN TWO HEART TRANSPLANT RECIPIENTS-LOS ANGELES, CALIFORNIA 2006**

Heather Kun[1], Anne M. Moore[2], Laurene Mascola[3], Bernard Kubak[4], Suman Radhakrishna[5], Frank Steurer[2], Gena Lawrence[2], David Leiby[6], Tom Mone[7], Tom Mone[7], Robert Hunter[8], Matthew Kuehnert[2]

[1]Centers for Disease Control and Prevention, Los Angeles, CA, United States, [2]Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Los Angeles Department of Health Services, Los Angeles, CA, United States, [4]University of California Los Angeles, Los Angeles, CA, United States, [5]University of Southern California, Los Angeles, CA, United States, [6]American Red Cross Holland Laboratory, Rockville, MD, United States, [7]One Legacy, Los Angeles, CA, United States, [8]California Department of Health Services, Biologics, Los Angeles, CA, United States

9:30 a.m.

1039

***RICKETTSIOSES* IN RURAL THAILAND: RISK FACTORS AND CLINICAL DISCRIMINATORS**

Saithip Sutthiratana[1], Amanda D. Loftis[2], Anussorn Sitdhirasd[3], Gregory A. Dasch[2], Wanna Wonjindanon[1], Tamara L. Fisk[4], Scott L. Dowell[1], Sonja J. Olsen[1], Leonard F. Peruski[1]

[1]Thailand MOPH-US Centers for Disease Control and Prevention Collaboration, Nonthaburi, Thailand, [2]U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, [3]Office of Permanent Secretary, Ministry of Public Health, Nonthaburi, Thailand, [4]Emory University School of Medicine, Atlanta, GA, United States

Scientific Session 131

Flavivirus IV — West Nile Virus

Marquis 1

Thursday, November 16 8:00 a.m. – 9:45 a.m.

CHAIR

Aaron C. Brault

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

Sharone Green

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

8 a.m.

1040

DISPLACEMENT OF THE INTRODUCED GENOTYPE OF WEST NILE VIRUS IN NEW YORK STATE

Robin M. Moudy, Alan Dupuis, Gregory D. Ebel, Laura D. Kramer

Arbovirus Laboratories, Wadsworth Center, Slingerlands, NY, United States

8:15 a.m.

1041

FOX SQUIRRELS (*SCIURUS NIGER*) AND CHIPMUNKS (*TAMIAS STRIATUS*) MAY PLAY A ROLE IN THE EPIDEMIOLOGY OF WEST NILE VIRUS

Kenneth B. Platt[1], Brad J. Tucker[2], Flor G. Fabiosa[2], Patrick G. Halbur[2], Brad J. Blitvich[2], Lyric C. Bartholomay[2], Wayne A. Rowley[2]

[1]Iowa State University, Ames, IA, United States, [2]Iowa State University, Ames, IA, United States

8:30 a.m.

1042

RAPID SELECTION FOR VIRULENCE OF A SOUTH AFRICAN LINEAGE II WEST NILE VIRUS IN AMERICAN CROWS

Aaron C. Brault[1], Christy Andrade[1], Emily N. Green[1], Stanley A. Langevin[1], Payal Maharaj[1], Wanichaya N. Ramey[1], Todd A. Sanders[2], Richard A. Bowen[3]

[1]Center for Vector-Borne Disease and Department of Pathology, Microbiology and Immunology, School of Veterinary Medicine, University of CA, Davis, Davis, CA, United States, [2]Colorado Department of Fish and Game, Fort Collins, CO, United States, [3]Department of Biomedical Sciences, Colorado State University, Fort Collins, CO, United States

8:45 a.m.

1043

WEST NILE VIRUS IN ARGENTINA

María A. Morales[1], María Barrandeguy[2], Cintia Fabbri[3], Jorge B. García[3], Aldana Vissani[2], Karina Trono[2], Gerónimo Gutierrez[2], Fernando Fernandez[2], Silvana Levis[3], Delia A. Enría[3]

[1]Instituto Nacional de Enfermedades Virales Humanas "Dr. Julio I. Maiztegui", Pergamino/Pcia de Bs. As, Argentina, [2]Instituto de Virología, ClCVyA INTA, Castelar, Buenos Aires, Argentina, [3]Instituto Nacional de Enfermedades Virales Humanas "Dr. Julio I. Maiztegui", Pergamino, Buenos Aires, Argentina

9 a.m.

1044

HUMAN CD8+ T CELL RESPONSES TO A CANDIDATE LIVE-ATTENUATED CHIMERIC WEST NILE VIRUS VACCINE

Sharone Green[1], Thomas P. Monath[2], Liyan Yang[1], Masanori Terajima[1], Diane M. Roberts[1], Alan L. Rothman[1], Jeffrey S. Kennedy[1], Francis A. Ennis[1]

[1]Center for Infectious Disease and Vaccine Research, University of Massachusetts Medical School, Worcester, MA, United States, [2]Acambis, Inc., Cambridge, MA, United States

9:15 a.m.

1045

A RECOMBINANT WEST NILE SUBUNIT VACCINE PROVIDES EFFECTIVE PROTECTION AGAINST FATAL WEST NILE ENCEPHALITIS IN AGED AND WEANLING HAMSTERS

Carolyn L. Weeks-Levy[1], Michael Lieberman[1], Douglas Watts[2], Robert Tesh[2], David Clements[1], Steve Ogata[1], Teri Wong[1], Gordon Wang[1], James Senda[1], A. Travassos da Rosa[2], M. Siirin[2], Gloria Corpuz[1], Beth-Ann Coller[1]

[1]Hawaii Biotech, Inc., Aiea, HI, United States, [2]University of Texas Medical Branch, Galveston, TX, United States

9:30 a.m.

1046

INVESTIGATION INTO THE COMPARATIVE EFFICACY OF THREE WEST NILE VIRUS (WNV) VACCINES IN EXPERIMENTALLY INDUCED WNV CLINICAL DISEASE IN HORSES

Kathy K. Seino, Maureen T. Long, E. Paul J. Gibbs, Sarah Beachboard, Pamela P. Humphrey, MaryAnn Dixon

University of Florida, Gainesville, FL, United States

Scientific Session 132

Malaria — Vaccines I

Marquis 2

Thursday, November 16 8:00 a.m. – 9:45 a.m.

CHAIR

David J. Conway

MRC Laboratories, Banjul, Gambia

Yimin Wu

National Institutes of Health, Bethesda, MD United States

8 a.m.

1047

DISCOVERING NOVEL BLOOD STAGE MALARIA VACCINE CANDIDATES: SCREENING WITH IMMUNE SERA FROM *FALCIPARUM* MALARIA PATIENTS AND ASYMPTOMATIC PARASITE CARRIERS

Satoru Takeo[1], Ling Jin[2], Hirokazu Sakamoto[1], Eun-Taek Han[1], Hideyuki Iriko[2], Osamu Kaneko[3], Motomi Torii[3], Jetsumon Sattabongkot[4], Rachanee Udomsangpetch[5], Tatsuya Sawasaki[1], Yaeta Endo[1], Takafumi Tsuboi[1]

[1]Cell-Free Science and Technology Research Center, Ehime University, Matsuyama, Japan, [2]Venture Business Laboratory, Ehime University, Matsuyama, Japan, [3]Department of Molecular Parasitology, Ehime University Graduate School of Medicine, Toon, Japan, [4]Department of Entomology, US Army Medical Component-Armed Forces Research Institute of Medical Sciences (USAMC-AFRIMS), Bangkok, Thailand, [5]Department of Pathobiology, Faculty of Science, Mahidol University, Bangkok, Thailand

8:15 a.m.

1048

DISCOVERING NOVEL MALARIA PRE-ERYTHROCYTIC ANTIGENS

Joao Carlos Aguiar[1], Hideyuki Iriko[2], Fengying Huang[1], John B. Sacci[3], Laure Juompan[4], Ling Jin[2], Eun-Taek Han[5], Satoru Takeo[5], Urszula Krzych[4], Yaeta Endo[5], Thomas Richie[1], Takafumi Tsuboi[5]

[1]Naval Medical Research Center, Silver Spring, MD, United States, [2]Venture Business Laboratory, Ehime University, Matsuyama, Ehime, Japan, [3]Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD, United States, [4]Department of Immunology, Walter Reed Army Institute of Research, Silver Spring, MD, United States, [5]Cell-free Science and Technology Research Center, Ehime University, Matsuyama, Ehime, Japan

(ACMCIP Abstract)

8:30 a.m.

1049

CHIMERIC MSP-1 BASED VACCINE-INDUCED ANTIBODIES CROSS-REACT WITH SEVERAL *PLASMODIUM* SPECIES AND INDUCES PROTECTIVE IMMUNITY

Balwan Singh, Monica Cabrera-Mora, Jianlin Jiang, Mary R. Galinski, **Alberto Moreno**

Emory Vaccine Center at Yerkes National Primate Research Center, Emory University, Atlanta, GA, United States

8:45 a.m.

1050

TOLERABILITY AND IMMUNOGENICITY OF A *P. FALCIPARUM* MULTI-ANTIGEN MULTI-STAGE ADENOVIRUS VECTORED VACCINE, ARMED FORCES RESEARCH INSTITUTE OF MEDICAL SCIENCES-M3V-AD-PFCA, IN NZW RABBITS

Noelle B. Patterson[1], Harini Ganeshan[1], Esteban N. Abot[1], Joseph J. Campo[1], Gail L. Levine[1], Francis T. Williams[1], Keith Limbach[1], Kalpana Gowda[1], Joseph T. Bruder[2], C. Richter King[2], Bryan T. Butman[2], David P. Regis[1], Thomas L. Richie[1], Denise L. Doolan[1]

[1]Naval Medical Research Center, Silver Spring, MD, United States, [2]GenVec, Inc., Gaithersburg, MD, United States

9 a.m.

1051

PRE-CLINICAL STUDIES TOWARDS RAD35-BASED MALARIA VACCINES

Olga Ophorst[1], Katarina Radošević[1], Sandra Verhaagh[1], Tanja de Gruijl[2], Maria-Gracia Pau[1], Ben Berkhout[3], Moriya Tsuji[4], Jaap Goudsmit[1], Menzo Havenga[1]

[1]Crucell, Leiden, The Netherlands, [2]Vrije Universiteit, University Medical Center, Amsterdam, The Netherlands, [3]Academic Medical Center, Amsterdam, The Netherlands, [4]New York University School of Medicine, New York, NY, United States

(ACMCIP Abstract)

9:15 a.m.

1052

IMMUNOGENICITY AND PROTECTIVE EFFICACY AGAINST *PLASMODIUM VIVAX* IN AOTUS MONKEYS FOLLOWING HETEROLOGOUS PRIME-BOOST IMMUNIZATION WITH PLASMIDS AND ADENOVIRUS VECTORS ENCODING PVAMA1 AND PVMSP1-42

Michael G. Stockelman[1], Jennifer A. Cockrill[1], De-chu Tang[2], Nicanor Obaldia[3]

[1]Naval Medical Research Center, Silver Spring, MD, United States, [2]Vaxin Inc., Birmingham, AL, United States, [3]Tropical Medicine Research/Instituto Conmemorativo Gorgas de Estudios de la Salud, Panama City, Panama

(ACMCIP Abstract)

9:30 a.m.

1053

EFFECTIVE BOOSTING VECTORS FOR MALARIA IMMUNIZATION EVADE THE CD8 T CELL RESPONSE GENERATED BY PRIMING

Ian A. Cockburn, Alexandre Morrot, Sumana Chakravarty, Michael Overstreet, Fidel Zavala

Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

Scientific Session 133

Mosquitoes — Vector Biology — Epidemiology III

Hilton Hotel – Grand Salon A

Thursday, November 16 8:00 a.m. – 9:45 a.m.

CHAIR

Doug Norris

John Hopkins School of Public Health, Baltimore, MD, United States

Mohammed Shahabuddin

Boston College, Chestnut Hill, MA, United States

8 a.m.

1054

NATURE BEATS NURTURE: A CASE STUDY OF THE QUALITY OF MALE *ANOPHELES GAMBIAE* S.L MOSQUITOES REARED IN ARTIFICIAL AND NATURAL ENVIRONMENTS

Bernadette Patince Huho[1], Gerry Killeen[2], Gamba Nkwengulila[3], Bart Knols[4], Heather Ferguson[2]

[1]Ifakara Health Research and Development Centre, Morogoro, United Republic of Tanzania, [2]Ifakara Health Research and Development Centre, Ifakara,Morogoro, United Republic of Tanzania, [3]University of Dar es Salaam, Dar es salaam, United Republic of Tanzania, [4]International Atomic Energy Agency (IAEA), Seibersdorf, Austria

8:15 a.m.

1055

MALE *ANOPHELES GAMBIAE* MATING SUCCESS IN A SWARM: 'MAY THE BEST MAN LOSE'

Kija Ng'habi[1], Bernadette John[1], Gamba Nkwengulila[2], Gerry Killeen[3], Bart G. Knols[4], Heather Ferguson[5]

[1]Ifakara Health Research and Development Centre, Morogoro, United Republic of Tanzania, [2]University of Dar es Salaam, Dar es Salaam, United Republic of Tanzania, [3]School of Biological and Biomedical Sciences, Durham University, Durham, United Kingdom, [4]International Atomic Energy Agency (IAEA), Agency's Laboratories Seibersdorf, Seibersdorf, Austria, [5]Laboratory of Entomology, Wageningen University and Research Centre, Wageningen, The Netherlands

8:30 a.m.

1056

DIFFERENTIAL SEGREGATION OF MATERNAL LIPIDS AS A STRATEGY FOR NEONATE LARVAE SURVIVAL IN THE MOSQUITO

Mohammed Shahabuddin

Infectious Disease Group, Department of Biology, Boston College, Chestnut Hill, MA, United States

8:45 a.m.

1057

DEFORESTATION AND ITS EFFECTS ON THE SPOROGONIC DEVELOPMENT OF *PLASMODIUM FALCIPARUM* IN *ANOPHELES GAMBIAE* IN THE HIGHLANDS OF WESTERN KENYA

Yaw A. Afrane[1], Benard W. Lawson[2], Andrew K. Githeko[1], Guiyun Yan[3]

[1]Kenya Medical Research Institute, Kisumu, Kenya, [2]Department of Theological and Applied Biology, KNUST, Kumasi, Ghana, [3]Program in Public Health, College of Health Sciences, University of California at Irvine, Irvine, CA, United States

9 a.m.

1058

COMPLEXITY OF VERTEBRATE BLOOD UTILIZATION IN *ANOPHELES GAMBIAE*: ROLES OF PROTEASES AND LIPASES

Lea Marie Alford, Mohammed Shahabuddin

Infectious Disease Group, Department of Biology, Boston College, Chestnut Hill, MA, United States

9:15 a.m.

1059

SPECIATION BY ECOTYPIFICATION IN *ANOPHELES GAMBIAE*: A QUANTITATIVE TEST

Nicholas C. Manoukis, Travis C. Collier, Charles E. Taylor

University of California, Los Angeles, Los Angeles, CA, United States

9:30 a.m.

1060

FEEDING AND RESTING BEHAVIOR OF *ANOPHELES LONGIPALPIS* (THEOBALD) IN AN AREA OF HYPERENDEMIC MALARIA TRANSMISSION IN SOUTHERN ZAMBIA

Rebekah J. Kent[1], Maureen Coetzee[2], Sungano Mharakurwa[3], Douglas E. Norris[1]

[1]The Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Vector Control Reference Unit, National Institute for Communicable Diseases, Johannesburg, South Africa, [3]The Malaria Institute at Macha, Macha, Zambia

Symposium 134

Walking the Line: Emerging Infections along the United States/Mexico Border

Hilton Hotel – Grand Salon B

Thursday, November 16 8:00 a.m. – 9:45 a.m.

This session will discuss surveillance and research efforts focusing on infectious disease along the 2,000 mile U.S.-Mexico border, a geopolitical region with unique economic, social and microbial interconnectivity. Challenges and limitations of surveillance and response to both "old" and emerging infectious diseases in a bi-national arena will be addressed. Speakers will cover interdisciplinary issues such as cross-border migration, trade, differing local ecologies, access to infrastructure and household-level human behavioral factors and their roles in disease emergence within a bi-national framework. Attention will be paid to the role of fostering research that can be used by the public health and infectious disease communities to inform appropriate control activities and responses. Community-based field research and surveillance which focus on emerging diseases and outbreak responses in Texas/Tamaulipas and California/Baja California Norte will be highlighted in the symposium.

CHAIR

Emily C. Zielinski-Gutierrez

Centers for Disease Control and Prevention, Fort Collins, CO, United States

Mary H. Hayden

University of Colorado, Colorado Springs, CO, United States

8 a.m.

DENGUE AND DENGUE HEMORRHAGIC FEVER ON THE TEXAS/MEXICO BORDER—BROWNSVILLE AND MATAMOROS, 2005

Mary M. Ramos

Centers for Disease Control and Prevention, San Juan, PR, United States

8:25 a.m.

TUBERCULOSIS AND DIABETES: OLD ACQUAINTANCES MEET AGAIN AT THE TEXAS-MEXICO BORDER

Joseph B. McCormick

University of Texas School of Public Health, Brownsville, TX, United States

8:50 a.m.

QUESO FRESCO AND SALMONELLA ON THE CALIFORNIA/MEXICO BORDER

Stephen Waterman

Centers for Disease Control and Prevention, San Diego, CA, United States

9:15 a.m.

THE IMPORTANCE OF TAENIA SOLIUM CYSTICCEROSIS AND TENIOSIS IN THE UNITED STATES/MEXICO

Ana Flisser

Universidad Nacional Autónoma de México, Mexico City, Mexico

Symposium 135

Heart Diseases of the Tropics

Hilton Hotel – Grand Salon C

Thursday, November 16 8:00 a.m. – 9:45 a.m.

Diseases of the heart are a significant cause of morbidity and mortality in the tropics. This symposium will examine the common cardiac diseases found in the tropics, particularly focusing on infectious causes. The four main goals of the symposium will be to review the epidemiology and etiology of heart diseases in the tropics, focus on common cardiac manifestations of tropical diseases, update diagnostic and treatment options for American Trypanosomiasis and finally review endomyocardial fibrosis, which is generally a unique condition limited to the tropics.

CHAIR

John Cahill

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

8 a.m.

INTRODUCTION

John Cahill

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

8:05 a.m.

OVERVIEW OF HEART DISEASE IN THE TROPICS

Walter Simmons

Team Health, Peoria, AZ, United States

8:30 a.m.

CARDIAC MANIFESTATIONS OF TROPICAL DISEASES

Robert Partridge

Brown University, Providence, RI, United States

8:55 a.m.

UPDATE ON AMERICAN TRYPANOSOMIASIS

John Cahill

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

9:20 a.m.

ENDOMYOCARDIAL FIBROSIS

Lawrence Proano

Brown University, Providence, RI, United States

Symposium 136

Update on Management of Neurocysticercosis *(Taenia solium)*

Hilton Hotel – Grand Salon D

Thursday, November 16 8:00 a.m. – 9:45 a.m.

Infection and disease due to neurocysticercosis are variable, and thus different clinical approaches and treatments are required. Despite significant advances, treatments remain either suboptimal and/or based upon poorly-controlled or anecdotal experience. This symposium will identify major unanswered questions dealing with treatment of the different forms of neurocysticercosis and suggest approaches to answer these questions.

CHAIR

Hector H. Garcia

Universidad Peruana Cayetano Heredia, Lima, Peru

Robert H. Gilman

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

Theodore E. Nash

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

8 a.m.

PATHOPHYSIOLOGY OF NEUROCYSTICERCOSIS — ROLE OF INFLAMMATION AND USE/REQUIREMENTS OF ANTI-INFLAMMATORY AGENTS AND IMMUNOSUPPRESSIVES

Theodore E. Nash

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

8:25 a.m.

PITFALLS AND BENEFIT OF ANTI-PARASITIC THERAPY

Hector H. Garcia

Universidad Peruana Cayetano Heredia, Lima, Peru

8:50 a.m.

ADVANCES IN SURGICAL MANAGEMENT

Jefferson V. Proaño

Centro Medico Nacional Siglo XXI, Mexican Institute of Social Security, Mexico DF, Mexico

9:15 a.m.

SEIZURE PREVENTION AND TREATMENT IN NEUROCYSTERCOSIS — HOW LONG

Marco T. Medina

Instituto de Neurociencias, Tegucigalpa, Honduras

Scientific Session 137

Bacteriology IV — Systemic/Other

Hilton Hotel – Grand Salon E

Thursday, November 16 8:00 a.m. – 9:45 a.m.

CHAIR

Shari Lydy

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

Linda Oskam

KIT (Royal Tropical Institute), Amsterdam, The Netherlands

8 a.m.

1061

INCREASED DETECTION RATE OF LEPROSY (HANSEN'S DISEASE) AND STRATEGY FOR DISEASE CONTROL IN RIO GRANDE DO NORTE, BRAZIL

Mauricio L. Nobre[1], Marcia C. Dias[2], Gutemberg H. Dias[2], Jose W. Queiroz[2], Ana K. Silva[3], Gabriel A. Sampaio[2], Jose Medeiros Filho[2], Kathyrin M. Dupnik[4], Maria L. Moura[2], Priscilla F. Nobrega[2], Roberta M. Lacerda[2], Sergio F. Araujo[2], Eliana L. Nascimento[2], Gloria R. Monteiro[2], Carlos E. Gomes[2], Jenefer M. Blackwell[5], Selma M. Jeronimo[2]

[1]Universidade Federal do Rio Grande do Norte, Natal, RN, Brazil, [2]Universidade Federal do Rio Grande do Norte, Natal, Brazil, [3]Universidade Federal de Sao Paulo, São Paulo, Brazil, [4]University of Virginia, Charlottesville, VA, United States, [5]University of Cambridge, Cambridge, United Kingdom

8:15 a.m.

1062

THE RISK OF LEPROSY IN INDIVIDUALS WITH A LOW AND HIGH HOUSEHOLD SOCIO-ECONOMIC STATUS IN NORTHERN BANGLADESH

H.C.C. de Jonge

University Medical Centre st Radboud, Nijmegen, The Netherlands

8:30 a.m.

1063

COLEP: A CLUSTER RANDOMISED CONTROLLED TRIAL WITH SINGLE DOSE OF RIFAMPICIN TO PREVENT LEPROSY AMONG CLOSE CONTACTS OF NEWLY DIAGNOSED LEPROSY PATIENTS IN BANGLADESH

Linda Oskam[1], F. Johannes Moet[2], David Pahan[3], Jan Hendrik Richardus[2]

[1]KIT (Royal Tropical Institute) Biomedical Research, Amsterdam, The Netherlands, [2]Erasmus MC, University Medical Center Rotterdam, Department of Public Health, Rotterdam, The Netherlands, [3]Rural Health Program - The Leprosy Mission Bangladesh, Nilphamari, Bangladesh

8:45 a.m.

1064

PREVENTION OF LEPROSY USING RIFAMPICIN AS CHEMOPROPHYLAXIS: RESULTS AFTER 6 YEARS FOLLOW-UP

Mirjam I. Bakker[1], Mochammad Hatta[2], Agnes Kwenang[2], Paul R. Klatser[1], **Linda Oskam[1]**

[1]KIT (Royal Tropical Institute) Biomedical Research, Amsterdam, The Netherlands, [2]Hasanuddin University, Makassar, Indonesia

9 a.m.

1065

ISOLATION AND CHARACTERIZATION OF *BARTONELLA BACILLIFORMIS* FROM AN EXPATRIATE ECUADORIAN

Shari L. Lydy[1], Marina E. Eremeeva[1], Deborah S. Asnis[2], William L. Nicholson[1], Christopher D. Paddock[1], David J. Silverman[3], Gregory A. Dasch[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Flushing Hospital Medical Center, Flushing, NY, United States, [3]University of Maryland School of Medicine, Baltimore, MD, United States

9:15 a.m.

1066

IMMUNOLOGICAL PATTERN OF PATIENTS WITH ACUTE AND CHRONIC PHASE OF *BARTONELLA BACILLIFORMIS* INFECTION IN A ENDEMIC AREA IN PERU

Erick F. Huarcaya[1], Ciro Maguina[2], Ivan Best[2], Nelson Solorzano[3], Julio Menacho[4], Palmira Ventosilla[2]

[1]University of New Mexico, Albuquerque, NM, United States, [2]Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Hospital de apoyo de Caraz, Caraz, Peru, [4]Hospital Regional de Huaraz, Huaraz, Peru

(ACMCIP Abstract)

9:30 a.m.

1067

THE IDENTIFICATION OF *IN VIVO* INDUCED PROTEIN ANTIGENS DURING *BACILLUS ANTHRACIS* INFECTION

Sean M. Rollins[1], Amanda Peppercorn[1], John Young[1], Melissa Drysdale[2], Andrea Baresch-Bernal[1], Margaret Bikowski[1], David Ashford[3], Conrad Quinn[3], Jeffrey Hillman[4], Martin Handfield[4], Rick Lyons[5], Theresa Koehler[6], Stephen B. Calderwood[1], Edward T. Ryan[1]

[1]Massachusetts General Hospital, Boston, MA, United States, [2]University of New Mexico Health Science Center, Albuquerque, NM, United States, [3]Centers for Disease Control and Prevention, Atlanta, GA, United States, [4]University of Florida, Gainesville, FL, United States, [5]University of New Mexico Health Science Center, Albuquerque, MA, United States, [6]University of Texas - Houston Medical School, Houston, TX, United States

Coffee Break

International Level

Thursday, November 16 9:45 a.m. – 10:15 a.m.

Scientific Session 138

Schistosomiasis III – Epidemiology

International 5/6

Thursday, November 16 10:15 a.m. – Noon

CHAIR

Jennifer F. Friedman

Brown University, Providence, RI, United States

Charles H. King

Case Western Reserve University, Cleveland, OH, United States

10:15 a.m.

1068

THE IMPACT OF SCHISTOSOMIASIS AND INTESTINAL HELMINTH CONTROL PROGRAM ON HEALTH IN RURAL UGANDA

Alan Fenwick[1], Narcis Kabatereine[2], Artemis Koukounari[1], Joanne Webster[1], Simon Brooker[3]

[1]Imperial College London, London, United Kingdom, [2]Vector Control Division, Kampala, Uganda, [3]London School of Hygiene and Tropical Medicine, London, United Kingdom

10:30 a.m.

1069

MONITORING URINARY SCHISTOSOMIASIS INFECTION IN COMMUNITIES GIVE A PRAZIQUANTEL 'HOLIDAY' AFTER FIVE ROUNDS OF TREATMENT

Frank O. Richards[1], Abel Eigege[2], Alphonsus Kal[2], B. Ibrahim[3], John Umaru[2], Munirah Y. Jinadu[4], Emmanual S. Miri[2], Moses N. Katabarwa[1], Donald R. Hopkins[1]

[1]The Carter Center, Atlanta, GA, United States, [2]The Carter Center, Jos, Nigeria, [3]Plateau State Ministry of Health, Jos, Nigeria, [4]Federal Ministry of Health, Abuja, Nigeria

10:45 a.m.

1070

HELMINTH INFECTIONS AND POLYPARASITISM AS PREDICTORS OF COGNITIVE PERFORMANCE OVER 18-MONTHS OF FOLLOW-UP AMONG SCHOOL-AGE CHILDREN

Jennifer F. Friedman[1], Stephen T. McGarvey[1], Joseph Hogan[1], Kate L. Ryder[1], Vincent Mor[1], David C. Bellinger[2], Luz P. Acosta[3], Hannah M. Coutinho[1], Tjalling Leenstra[4], Remigio M. Olveda[3], Jonathan D. Kurtis[5], Jennifer F. Friedman[5]

[1]Brown University, Providence, RI, United States, [2]Children's Hospital, Boston, MA, United States, [3]Research Institute of Tropical Medicine, Manila, Philippines, [4]Brown University and The Miriam Hospital, Providence, RI, United States, [5]The Miriam Hospital and Brown University, Providence, RI, United States

11 a.m.

1071

MODELING SCHISTOSOMIASIS TRANSMISSION IN A DISTRIBUTED ENVIRONMENT: IMPLICATIONS FOR SUSTAINABLE CONTROL

Edmund Seto[1], David Gurarie[2]

[1]University of California, Berkeley, CA, United States, [2]Case Western Reserve University, Cleveland, OH, United States

11:15 a.m.

1072

SOCIO-ECOLOGY OF MALARIA AND URINARY SCHISTOSOMIASIS IN COASTAL KENYA

Lia S. Florey[1], Melissa K. Van Dyke[1], Charles H. King[2], Eric M. Muchiri[3], Peter L. Mungai[4], Mark L. Wilson[1]

[1]Department of Epidemiology, University of Michigan, Ann Arbor, MI, United States, [2]Center for Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States, [3]Division of Vector-Borne Diseases, Ministry of Health, Nairobi, Kenya, [4]Msambweni Field Station, Msambweni, Kenya

11:30 a.m.

1073

TOWARDS INTEGRATED CONTROL TO ACHIEVE TERMINATION OF SCHISTOSOMIASIS TRANSMISSION IN IRRIGATED AGRICULTURAL REGIONS OF CHINA

Song Liang[1], Robert Spear[1], Seto Edmund[1], Justin Remais[1], Alan Hubbard[1], Bo Zhong[2], Changhong Yang[3], Dongchuan Qiu[2], Xueguang Gu[2]

[1]University of California, Berkeley, CA, United States, [2]Institute of Parasitic Disease, Sichuan Center for Disease Control and Prevention, Chengdu, China, [3]Institute of Public Health Information, Sichuan Center for Disease Control and Prevention, Chengdu, China

11:45 a.m.

1074

SPATIAL DISTRIBUTION OF URINARY SCHISTOSOMIASIS INFECTION AMONG SCHOOL CHILDREN IN AN ENDEMIC COMMUNITY IN GHANA

Francis Addae[1], Dziedzom K. de Souza[2], Margaret Sarpong-Nsiah[1], Alex Boye[1], Michael D. Wilson[2], **Daniel A. Boakye[2]**

[1]School of Biological Sciences, University of Cape Coast, Cape Coast, Ghana, [2]Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana

Symposium 139

Innovative Solutions to the Treatment of Acute Malaria: Pyronaridine/Artesunate Combination Therapy

Copenhagen/Stockholm/Amsterdam

Thursday, November 16 10:15 a.m. – Noon

Although the clinical effectiveness of pyronaridine in the treatment of malaria was reported over several decades ago in China, it has not been until recently that its distinct profile has made it a strong contender as one of the new artemisinin combination therapies (ACTs). This symposium is co-organized by the Not-for-Profit Foundation, Medicines for Malaria Venture and their partner Shin Poong Pharmaceuticals Ltd. The speakers will focus on the background to the development of this novel ACT combination, as well as presenting clinical and pharmacokinetic data on over 600 patients and healthy volunteers who have received the Pyronaridine/Artesunate combination in GCP-compliant Phase I and II trials in Africa and Asia.

CHAIR

Lise Riopel

Medicines for Malaria Venture, Geneva, Switzerland

Steven Meshnick

University of North Carolina, Chapel Hill, NC

10:15 a.m.

INTRODUCTION

Lise Riopel[1], Steven Meshnick[2]

[1]Medecines for Malaria Venture, Geneva, Switzerland, [2]University of North Carolina, Chapel Hill, NC, United States

10:35 a.m.

POSITION OF ARTEMISININ COMBINATION THERAPY IN THE TREATMENT OF UNCOMPLICATED MALARIA

Pascal Ringwald

World Health Organization, Geneva, Switzerland

10:55 a.m.

PYRONARIDINE/ARTESUNATE COMBINATION: PHARMACOKINETICS, MECHANISM OF ACTION AND METABOLISM

Lawrence Fleckenstein

University of Iowa, Iowa City, IA, United States

11:15 a.m.

EFFICACY AND SAFETY OF PYRONARIDINE/ ARTESUNATE COMBINATION FOR TREATMENT OF ACUTE *P. FALCIPARUM* MALARIA

Sornchai Looareesuwan

Mahidol University, Bangkok, Thailand

11:35 a.m.

THE ROLE OF PYRONARIDINE/ARTESUNATE COMBINATION IN THE TREATMENT OF CHILDREN WITH ACUTE *P. FALCIPARUM* MALARIA

Peter Kremsner

Institute for Tropical Medicine, Tübingen, Germany

Scientific Session 140

Malaria — Vector Biology and Transmission

Marquis 3

Thursday, November 16 10:15 a.m. – Noon

CHAIR

George Dimopoulos

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

Seydou Doumbia

Malaria Research and Training Center, Bamako, Mali

10:15 a.m.

1075

DISTRIBUTION OF FREE BEDNETS BUNDLED WITH INSECTICIDE VIA AN INTEGRATED CHILD HEALTH CAMPAIGN — LINDI REGION, TANZANIA, 2005

Jacek Skarbinski[1], Julius J. Massaga[2], Alexander K. Rowe[1], Peter B. Bloland[1], S. Patrick Kachur[1]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]Centre for Enhancement of Effective Malaria Interventions, Gates Malaria Partnership, Dar es Salaam, United Republic of Tanzania

10:30 a.m.

1076

DISTINCT *P. VIVAX* POPULATIONS IN MEXICO DIFFERENTIALLY INFECT TWO LOCAL VECTORS

Deirdre A. Joy[1], Lilia Gonzalez-Ceron[2], Thomas F. McCutchan[1], M. A. Sandoval[2], Jose A. Nettel[2], Frida Santillan[2], Xin-zhuan Su[1]

[1]National Institutes of Health, Rockville, MD, United States, [2]Centro de Investigacion de Paludismo, Instituto Nacional de Salud Publica, Tapachula, Mexico

(ACMCIP Abstract)

10:45 a.m.

1077

STRAIN- AND SPECIES-SPECIFIC COMPARISON OF THE IMMUNE RESPONSES OF DIFFERENT MEMBERS OF THE *ANOPHELES GAMBIAE* COMPLEX TO *PLASMODIUM FALCIPARUM* INFECTION

Luke A. Baton, Yuemei Dong, George Dimopoulos

Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

11 a.m.

1078

DRY SEASON MALARIA TRANSMISSION IN A RURAL SUDAN SAVANA OF MALI

Nafomon Sogoba[1], **Seydou Doumbia[1]**, Ibrahim Baber[1], Moussa Keita[1], Mahamadou Maiga[1], Sidiki Mariko[1], Sekou Konare[1], Guimoko Dolo[1], Skou F Traore[1], Jose Ribeiro[2]

[1]Malaria Research and Training Center, Bamako, Mali, [2]National Institute of Allergy and Infectious Diseases/Laboratory of Malaria and Vector Research, Rockville, MD, United States

11:15 a.m.

1079

IN SEARCH OF ENVIRONMENTAL DETERMINANTS FOR MALARIA TRANSMISSIONS IN INDONESIA

Richard K. Kiang[1], Farida Adimi[1], Joseph D. Nigro[1], Ferdinand J. Laihad[2], Krongthong Thimasarn[3], Rakesh Rastogi[3]

[1]NASA/Goddard Space Flight Center, Greenbelt, MD, United States, [2]Directorate of Vector Borne Disease Control, Ministry of Health, Jakarta, Indonesia, [3]World Health Organization Regional Office for SE Asia, New Delhi, India

11:30 a.m.

1080

EPIDEMIOLOGICAL AND CLINICAL CHARACTERISTICS OF THE REEMERGING *VIVAX* MALARIA IN THE REPUBLIC OF KOREA

Jong-Yil Chai, Eun-Hee Shin

Seoul National University College of Medicine, Seoul, Republic of Korea

11:45 a.m.

1081

CHANGE IN MALARIAL PARASITEMIA PREVALENCE AND INDOOR RESIDUAL SPRAYING: EVIDENCE OF A DOSE RESPONSE RELATIONSHIP

Immo Kleinschmidt[1], Luis Benavente[2], Christopher Schwabe[2], Miguel Torres[2], David Jituboh[2], Brian Sharp[1]

[1]Medical Research Council of South Africa, Durban, South Africa, [2]Medical Care Development Inc., Silver Spring, MD, United States

Scientific Session 141

Clinical Tropical Medicine IV

Marquis 4

Thursday, November 16 10:15 a.m. – Noon

CHAIR

Patrick J. Blair

U.S. Naval Medical Research Unit #2, Jakarta, Indonesia

Samba O. Sow

Center for Vaccine Development-Mali, Bamako, Mali

10:15 a.m.

1082

USING TREATMENT FAILURE TO SCREEN FOR MDR TB IS ASSOCIATED WITH RECURRENCE, DEATH, AND TRANSMISSION

Jonathan M. Sherman[1], Marco Tovar[2], Robert H. Gilman[3], Giselle Soto[4], Luz Caviedes[2], Lilia Cabrera[4], Mirko Zimic[3], Antonio Bernabe[2], Jaime Ortiz[5], Richard Rodriguez[5], Eduardo Ticona[6], Jon S. Friedland[7], Carlton A. Evans[7]

[1]Mayo Medical School, Rochester, MN, United States, [2]Universidad Peruana Cayetano Heredia, Lima, Peru, [3]Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, [4]Asociación Benefica PRISMA, Lima, Peru, [5]Hospital Maria Auxiliadora, Lima, Peru, [6]Hospital Nacional Dos de Mayo, Lima, Peru, [7]Department of Infectious Diseases and Immunity and Wellcome Trust Centre for Clinical Tropical Medicine, Imperial College, London, United Kingdom

10:30 a.m.

1083

HUMAN CELL-MEDIATED IMMUNITY AGAINST *MYCOBACTERIUM TUBERCULOSIS* ANTIGENS IS AUGMENTED BY TREATING INTESTINAL HELMINTHS

Karine Zevallos[1], Katherine C. Vergara[2], Robert H. Gilman[3], Margaret Kosek[3], Pablo Yori[3], Cesar Banda[2], Beatriz Herrera[4], Teresa Valencia[4], Carlos Vidal[5], Graciela Meza[5], Jon S. Friedland[6], Gurjinder S. Sandhu[6], Carlton A. Evans[6]

[1]Universidad Peruana Cayetano Heredia, Iquitos, Peru, [2]Asociacion Benefica Prisma, Lima, Peru, [3]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [4]Universidad Peruana Cayetano Heredia, Lima, Peru, [5]Ministry of Health, Iquitos, Peru, [6]Wellcome Centre for Clinical Tropical Medicine and Department of Infectious Diseases and Immunity, Imperial College Hammersmith Hospital Campus, London, United Kingdom

10:45 a.m.

1084

BACTERIAL MENINGITIS AMONG 0- TO 15-YEAR OLD CHILDREN ADMITTED TO A PEDIATRIC REFERRAL CENTER IN BAMAKO, MALI

Milagritos D. Tapia[1], James D. Campbell[1], Samba O. Sow[2], Jakub Simon[1], Mary-Claire Roghmann[1], Souleymane Diallo[3], Mahamadou M. Keita[2], Mama N. Doumbia[2], Fadima C. Haidara[2], Uma U. Onwuchekwa[2], Mamadou M. Keita[3], Mariam Sylla[3], Karen L. Kotloff[1], Myron M. Levine[1]

[1]University of Maryland School of Medicine, Baltimore, MD, United States, [2]Center for Vaccine Development-Mali, Bamako, Mali, [3]Hopital Gabriel Toure, Bamako, Mali

11 a.m.

1085

BURDEN OF INVASIVE BACTERIAL INFECTIONS AMONG CHILDREN ADMITTED TO A PEDIATRIC REFERRAL CENTER IN BAMAKO, MALI — 2002 – 2006

Samba O. Sow[1], Milagritos D. Tapia[2], James D. Campbell[2], Souleymane Diallo[3], Mahamadou M. Keita[1], Mama N. Doumbia[1], Fadima C. Haidara[1], Uma U. Onwuchekwa[1], Mamadou M. Keita[3], Mariam Sylla[3], Myron M. Levine[2], Karen L. Kotloff[2]

[1]Center for Vaccine Development-Mali, Bamako, Mali, [2]University of Maryland School of Medicine, Baltimore, MD, United States, [3]Hopital Gabriel Toure, Bamako, Mali

11:15 a.m.

1086

AN EVALUATION OF A RAPID SERODIAGNOSTIC TEST FOR TYPHOID FEVER — AN GIANG, VIETNAM 2005-2006

Seema Jain[1], Nguyen Thi Phong Lan[2], Diep The Tai[3], Nguyen Ngoc Rang[4], Tran Thi Phi La[4], Michele Bird[1], Christiane Dolecek[5], Nguyen Van Sach[4], Bui Xuan Bang[3], Eric D. Mintz[1], Phung Dac Cam[2], Pavani K. Ram[6]

[1]Centers for Disease Control and Prevention, Atlanta, GA, United States, [2]National Institute for Hygiene and Epidemiology, Hanoi, Vietnam, [3]Pasteur Institute, Ho Chi Minh City, Vietnam, [4]An Giang Province Hospital, An Giang, Vietnam, [5]University of Oxford Clinical Research Unit, Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, [6]State University of New York – University at Buffalo, Buffalo, NY, United States

11:30 a.m.

1087

CHARACTERIZATION OF LETHAL CASES OF LEPTOSPIROSIS WITH EMPHASIS OF WEIL'S SYNDROME AND SEVERE PULMONARY HEMORRHAGE SYNDROME, IN THE CITY OF SAO PAULO, BRAZIL

Anne Spichler[1], Marcia Buzzar[2], Daniel Athanazio[3], Erica Chapola[4], Alfred Husch[4], Bronislawa Castro[2]

[1]Municipality Health Secretariat of São Paulo, São Paulo, Brazil, [2]Municipality Health Secretariat of São Paulo, São Paulo, Brazil, [3]Federal University of Bahia, Bahia, Brazil, [4]Zoonosis Center, Municipality of São Paulo, São Paulo, Brazil

11:45 a.m.

1088

CLINICAL AND LABORATORY COMPARISON OF HUMAN INFECTIONS WITH DENGUE, INFLUENZA, OR AVIAN INFLUENZA A (H5N1) VIRUSES IN INDONESIA

Herman Kosasih[1], Endang Sedyaningsih[2], Sardikin Giriputro[3], Hadi Jusuf[4], Erlin Listiyaningsih[1], Chairin N. Ma'roef[1], Dewi Lokida[5], Alexander X. Klimov[6], Ruben Donis[6], Jackie Katz[6], Timothy M. Uyeki[6], Shannon D. Putnam[1], **Patrick J. Blair[1]**

[1]U.S. Naval Medical Research Unit #2 (NAMRU-2), Jakarta, Indonesia, [2]National Institute of Health Research and Development (National Institutes of HealthRD), Ministry of Health, Republic of Indonesia, Jakarta, Indonesia, [3]Sulianti Saroso Infectious Disease Hospital, Jakarta, Indonesia, [4]Hasan Sadikin Hospital, Jakarta, Indonesia, [5]Tangerang District Hospital, Tangerang, Indonesia, [6]Centers for Disease Control and Prevention (Centers for Disease Control and Prevention), Atlanta, GA, United States

Scientific Session 142

Flavivirus V — Dengue III

Marquis 1

Thursday, November 16 10:15 a.m. – Noon

CHAIR

Anna P. Durbin

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

Mary Marovich

Walter Reed Army Institute of Research, Rockville, MD, United States

10:15 a.m.

1089

TRANS-SPLICING OF THE DEN2-NGC GENOME AT A HIGHLY CONSERVED SITE BY A GROUP I INTRON RIBOZYME

James H. Keith, Pradip V. Barde, Malcolm J. Fraser

University of Notre Dame, Notre Dame, IN, United States

10:30 a.m.

1090

ROLE OF STRESS RESPONSE MOLECULES IN DENGUE VIRUS INFECTION IN MOSQUITO AND HUMAN CELLS

Rosa M. del Angel[1], Salvador Chavez-Salinas[1], Juan S. Salas-Benito[2], Ivonne Ceballos-Olvera[1], Jorge Reyes-del Valle[1], Fernando J. Medina-Ramirez[1]

[1]CINVESTAV-IPN, Mexico D.F., Mexico, [2]Escuela de Medicina y Homeopatia del IPN, Mexico D.F., Mexico

(ACMCIP Abstract)

10:45 a.m.

1091

ROLE OF DC-SIGN AND FCGRII IN ANTIBODY DEPENDENT ENHANCEMENT OF DENGUE INFECTION

Kobporn Boonnak, Bonnie M. Slike, Mary A. Marovich

The Henry M. Jackson Foundation, Rockville, MD, United States

11 a.m.

1092

DEVELOPING A MOUSE MODEL OF SECONDARY DENGUE VIRUS INFECTION

Scott J. Balsitis, Jennifer L. Kyle, Katie Minor, P. Robert Beatty, Eva Harris

Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

11:15 a.m.

1093

DENGUE VIRUS TARGETS MACROPHAGES AND DENDRITIC CELLS IN A MOUSE MODEL OF INFECTION

Jennifer L. Kyle, P. Robert Beatty, Eva Harris

Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

11:30 a.m.

1094

PHENOTYPING OF PERIPHERAL BLOOD MONONUCLEAR CELLS INFECTED BY DENGUE VIRUS IN PEDIATRIC CASES

Anna Durbin[1], Maria Jose Vargas[2], Bhavin Thumar[1], Samantha N. Hammond[3], Crisanta Rocha[4], Angel Balmaseda[2], Eva Harris[3]

[1]Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, [2]Departmento de Virología, Centro Nacional de Diagnástico 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]Hospital Infantil Manuel de Jesus Rivera, Managua, Nicaragua

11:45 a.m.

1095

DIFFERENT SUBSETS OF PRIMARY HUMAN CELLS HAVE DIVERGENT SUSCEPTIBILITY TO DENGUE VIRUS (DV) INFECTION AND CAPACITY TO MEDIATE ANTIBODY-DEPENDENT ENHANCEMENT (ADE)

Zhihua Kou, Matthew Quinn, Huiyuan Chen, Robert Rose, Jacob Schlesinger, **Xia Jin**

University of Rochester, Rochester, NY, United States

Scientific Session 143

Malaria — Vaccines II

Marquis 2

Thursday, November 16 10:15 a.m. – Noon

CHAIR

Alassane Dicko

Malaria Research Training Center DEAP/FMPOS, Bamako, Mali

Laura B. Martin

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

10:15 a.m.

1096

FORMULATION DEVELOPMENT OF A CHIMERIC MALARIA VACCINE CANDIDATE (PFCP2.9) WITH MONTANIDE ISA 720 FOR CLINICAL EVALUATION

Xuegong Pan[1], **Birgitte Giersing[2]**, Sumei Qiu[1], Eveline Tierney[2], Wen Zhang[1], Tom Chen[3], Xiudong Huang[1], Zhifang Cao[1], Weiqing Pan[4]

[1]Wanxing Bio-Pharmaceuticals, Shanghai, China, [2]PATH Malaria Vaccine Initiative, Bethesda, MD, United States, [3]American Red Cross, Rockville, MD, United States, [4]Second Military Medical University, Shanghai, China

10:30 a.m.

1097

A PHASE 1 DOUBLE-BLIND, RANDOMIZED, CONTROLLED STUDY OF AMA-1/MSP-1 RECOMBINANT MALARIA VACCINE (PFCP-2.9/MONTANIDE ISA 720): A BLOOD STAGE VACCINE FOR *PLASMODIUM FALCIPARUM* MALARIA

Jinhong Hu[1], Zhihui Chen[1], Zhen Li[1], Jun Gu[1], Jian Liu[2], Qiang Wang[2], **Elissa Malkin[3]**, Eveline Tierney[3], Zhifang Cao[2], Weiqing Pan[4]

[1]Shanghai Changhai Hospital, Shanghai, China, [2]Wanxing Bio-Pharmaceuticals, Shanghai, China, [3]PATH Malaria Vaccine Initiative, Bethesda, MD, United States, [4]Second Military Medical University, Shanghai, China

10:45 a.m.

1098

PHASE 1 SAFETY AND IMMUNOGENICITY TRIAL OF $MSP1_{42}$-FVO/ALHYDROGEL AND $MSP1_{42}$-3D7/ALHYDROGEL BLOOD-STAGE MALARIA VACCINES IN US ADULTS

Laura B. Martin, Elissa Malkin, Andrew C. Orcutt, Olga V. Muratova, Hong Zhou, Samuel Moretz, David L. Narum, Aaron P. Miles, Sarimar Medina, Siddhartha Mahanty, Carole A. Long, Louis H. Miller, Allan Saul

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

11 a.m.

1099

T CELL RESPONSES IN VOLUNTEERS VACCINATED WITH BLOOD-STAGE MALARIAL ANTIGENS MSP-1 AND AMA-1

Maria Cecilia Huaman, Ababacar Diouf, Elissa Malkin, Laura Martin, Gregory Mullen, David Narum, Louis Miller, Siddhartha Mahanty, Carole Long

National Institutes of Health, Rockville, MD, United States

(ACMCIP Abstract)

11:15 a.m.

1100

RANDOMIZED, CONTROLLED, PHASE 1 STUDY OF AMA1-C1/ALHYDROGEL® VACCINE FOR *PLASMODIUM FALCIPARUM* MALARIA IN CHILDREN IN DONÉGUÉBOUGOU, MALI

Alassane Dicko[1], Issaka Sagara[1], Ruth D. Ellis[2], Mounirou Baby[1], Sory I. Diawara[1], Mahamadoun H. Assadou[1], Ousmane Guindo[1], Beh Kamate[1], Mohamed B. Niambele[1], Moussa Sogoba[1], Abdoulaye M. Traore[1], Mady Sissoko[1], Daniel Yalcouye[1], Gregory Mullen[2], Mahamadou S. Sissoko[1], Mahamadou A. Thera[1], Amagana Dolo[1], Carole Long[2], Christopher V. Plowe[3], Dapa A. Diallo[1], Louis H. Miller[2], Allan J. Saul[2], Ogobara K. Doumbo[1]

[1]Malaria Research Training Center DEAP/FMPOS, University of Bamako, Bamako, Mali, [2]Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, [3]Center for Vaccine Development, University of Maryland, Baltimore, MD, United States

11:30 a.m.

1101

HUMAN MALARIA-SPECIFIC IFN-GAMMA T CELL RESPONSES INDUCED BY VIRUS LIKE PARTICLES, COMPRISED OF HEPATITIS B VIRUS CORE ANTIGEN AND *P. FALCIPARUM* CIRCUMSPOROZOITE PROTEIN T AND B CELL EPITOPES (ICC-1132), ADJUVANTED WITH ALUM AS COMPARED TO ISA 720

Caroline Othoro Watta[1], Giane A. Oliveira[1], Mauricio Calvo-Calle[1], Gabriel Boehmer[2], Peter G. Kremsner[2], George B. Thornton[3], Robert Edelman[4], Aric Gregson[4], Elizabeth H. Nardin[1]

[1]Department Medical Parasitology, New York University School of Medicine, New York, NY, United States, [2]Department Human Parasitology, University of Tuebingen, Tuebingen, Germany, [3]Apovia, Inc., San Diego, CA, United States, [4]Center for Vaccine Development, University of Maryland, Baltimore, MD, United States

(ACMCIP Abstract)

11:45 a.m.

1102

INVASION INHIBITION OF *P.VIVAX* BY ANTI-DUFFY BINDING PROTEIN ANTIBODIES

Brian Grimberg[1], Rachanee Udomsangpetch[2], Jia Xianli[1], Kara Martin[1], Tasanee Panichakul[2], John Erickson[1], Christopher L. King[1], Peter A. Zimmerman[1]

[1]Case Western Reserve University, Cleveland, OH, United States, [2]Mahidol University, Bangkok, Thailand

(ACMCIP Abstract)

Symposium 144

Novel Organelles in Parasitic Protozoa

Hilton Hotel – Grand Salon A

Thursday, November 16 10:15 a.m. – Noon

The discoveries of the mitosomes, as mitochondrion-related organelles in Entamoeba and Giardia, the apicoplast, as a plastid-related organelle of Apicomplexan parasites, and the acidocalcisomes, as organelles conserved from bacteria to man, have profoundly changed the ways in which we view early eukaryotic evolution. Several of these organelles are the sources of potential targets for the chemotherapy of protozoal parasitic diseases and others, such as the contractile vacuole of trypanosomatids, provide excellent physiological models.

CHAIR

Roberto Docampo

University of Georgia, Athens, GA, United States

10:15 a.m.

INTRODUCTION

Roberto Docampo

University of Georgia, Athens, GA, United States

10:20 a.m.

ACIDOCALCISOMES IN *TOXOPLASMA GONDII*: AN UPDATE

Silvia Moreno

University of Georgia, Athens, GA, United States

10:45 a.m.

THE BIOLOGY OF THE APICOMPLEXAN PLASTID

Boris Striepen

University of Georgia, Athens, GA, United States

11:10 a.m.

MITOSOMES OF PARASITIC PROTOZOA

Jorge Tovar

Royal Holloway College, Egham, Surrey, United Kingdom

11:35 a.m.

CONTRACTILE VACUOLE AND OSMOREGULATION IN *TRYPANOSOMA CRUZI*

Roberto Docampo

University of Georgia, Athens, GA, United States

Symposium 147

A Global Network of Information Systems and the Prediction, Prevention and Control of Arthropod-Borne Zoonotic Disease Outbreaks

Hilton Hotel – Grand Salon D

Thursday, November 16 10:15 a.m. – Noon

Most emerging infectious diseases are zoonotic in origin, and many are arthropod-borne (ARBOR), such as Lyme disease and West Nile virus (WNV). Geographic information systems (GIS) are being increasingly used to monitor regional climatic and habitat conditions, endemic insect vectors and preferred nonhuman vertebrate hosts, in order to predict, prevent, and control ARBOR zoonotic disease outbreaks in local human populations. Many ARBOR zoonotic diseases represent serious public health threats in developing nations, and many may also be transmitted congenitally and by blood transfusions and organ and tissue transplants. Porous domestic borders and increasing global air travel for pleasure, business and military exercises pose increasing public health threats from ARBOR zoonotic diseases to developed nations as well. This symposium will explore the applications of GIS in the prediction, prevention, and control of ARBOR zoonotic disease outbreaks, all of which may result in chronic morbidity and some of which can contaminate human blood and transplantable tissue supplies. Targeted diseases and regions will include: WNV in North America, Chagas disease in Latin America, Japanese encephalitis in Asia and cutaneous leishmaniasis in the Middle East.

CHAIR

James H. Diaz

Louisiana State University Health Sciences Center, New Orleans, LA, United States

10:15 a.m.

INTRODUCTION

James H. Diaz

Louisiana State University Health Sciences Center, New Orleans, LA, United States

10:20 a.m.

GIS IN THE PREDICTION, PREVENTION, AND CONTROL OF WNV IN NORTH AMERICA

Karen Gruszynski

Louisiana State University Schools of Public Health and Veterinary Medicine, New Orleans, LA, United States

10:45 a.m.

GIS IN THE PREDICTION, PREVENTION, AND CONTROL OF CHAGAS DISEASE IN LATIN AMERICA

Prixia D. Nieto

Louisiana State University Health Sciences Center, New Orleans, LA, United States

11:10 a.m.

GIS IN THE PREDICTION, PREVENTION, AND CONTROL OF JAPANESE ENCEPHALITIS IN ASIA

Meena Ishikawa

Louisiana State University Schools of Public Health and Veterinary Medicine, New Orleans, LA, United States

11:35 a.m.

GIS IN THE PREDICTION, PREVENTION, AND CONTROL OF CUTANEOUS LEISHMANIASIS IN THE MIDDLE EAST

Stacey A. Anderson

Louisiana State University Schools of Public Health and Veterinary Medicine, New Orleans, LA, United States

Scientific Session 148

Intestinal and Tissue Helminths III: Nematodes

Hilton Hotel – Grand Salon E

Thursday, November 16 10:15 a.m. – Noon

CHAIR

David Abraham

Thomas Jefferson University, Philadelphia, PA, United States

Simon Brooker

University of Oxford, Oxford, United Kingdom

10:15 a.m.

1103

HUMAN HOOKWORM VACCINE TRIAL: MODELING TRIAL EFFICACY AND HEALTH IMPACT

Lorenzo Sabatelli[1], Azra Ghani[1], Peter Hotez[2], Laura Rodrigues[1], Simon Brooker[1]

[1]London School of Hygiene and Tropical Medicine, London, United Kingdom, [2]The George Washington University, Washington, DC, United States

10:30 a.m.

1104

PARASITE RISK FACTORS FOR UNDERWEIGHT AND WASTING IN PRESCHOOL-AGE CHILDREN IN BELEN, PERU USING THE NEW WHO INTERNATIONAL GROWTH STANDARDS

Martin Casapia[1], Serene A. Joseph[2], Carmen Nunez[1], Elham Rahme[3], **Theresa W. Gyorkos[3]**

[1]Asociacion Civil Selva Amazonica, Iquitos, Peru, [2]McGill University Health Centre, Montreal, QC, Canada, [3]McGill University, Montreal, QC, Canada

10:45 a.m.

1105

RECENTLY IDENTIFIED *BACILLUS* SPECIES PRODUCER OF POTENT NEMATOCIDAL COMPOUNDS

Ruel Michelin[1], Lafayette Frederick[2], Arthur Williams[1], Henry Lowe[3], Antony Kinyua[1], Roosevelt Shaw[1], Kathleen Lobban[4], Cynthia Johnson[5], Wolfgang Leitner[6], Soroj Pramanik[1], Yvonne Bronner[1], Ava Joubert[1], Juarine Stewart[1]

[1]Morgan State University, Baltimore, MD, United States, [2]Howard University, Washington, DC, United States, [3]University of the West Indies, Kingston, Jamaica, [4]University of Technology and UWI, Kingston, Jamaica, [5]Tai Sophia School of Healing Arts, Laurel, MD, United States, [6]NCI/National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

11 a.m.

1106

THE INFLUENCE OF HELMINTHS ON IMMUNE RESPONSES TO HIV

Zilungile L. Kwitshana[1], Gerhard Walzl[2], John E. Fincham[1]

[1]South African Medical Reseach Council, Durban, South Africa, [2]Stellenbosch University, South Africa, Cape Town, South Africa

11:15 a.m.

1107

CYTOKINE RESPONSES TO *STRONGYLOIDES STERCORALIS* INFECTIVE-STAGE LARVAL ANTIGEN IN STRONGYLOIDIASIS PATIENTS WITH HTLV-1 CO-INFECTION

Martin Montes[1], Jonathan Novoa[1], Thomas J. Nolan[2], Eduardo Gotuzzo[1], A. Clinton White[3]

[1]Instituto de Medicina Tropical 'Alexander von Humboldt' Universidad Peruana Cayetano Heredia, Lima, Peru, [2]University of Pennsylvania, Philadelphia, PA, United States, [3]Baylor College of Medicine, Houston, TX, United States

(ACMCIP Abstract)

11:30 a.m.

1108

MYELOPEROXIDASE IS REQUIRED FOR PROTECTIVE ADAPTIVE IMMUNITY TO *STRONGYLOIDES STERCORALIS* IN MICE

Amy E. O'Connell, David Abraham

Thomas Jefferson University, Philadelphia, PA, United States

(ACMCIP Abstract)

11:45 a.m.

1109

POOR SANITATION AND HELMINTH INFECTION PROTECT AGAINST SKIN SENSITIZATION IN VIETNAMESE CHILDREN: A CROSS-SECTIONAL STUDY

Carsten Flohr[1], Luc Nguyen Tuyen[2], Sarah Lewis[3], Rupert Quinnell[4], Truong Tan Minh[5], Ho Thanh Liem[6], Jim Campbell[1], David Pritchard[7], Tran Tinh Hien[8], Jeremy Farrar[1], Hywel C. Williams[7], John Britton[7]

[1]Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, [2]Khanh Hoa Provincial Centre for Malaria and Filariasis Control, Nha Trang, Vietnam, [3]University of Nottingham, Nottingham, United Kingdom, [4]University of Leeds, Leeds, United Kingdom, [5]Khanh Hoa Provincial Health Service, Nha Trang, Vietnam, [6]Khanh Son District Health Service, Khanh Son, Khanh Hoa Province, Vietnam, [7]Nottingham University, Nottingham, United Kingdom, [8]Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam

ASTMH 55th Annual Meeting Adjourns

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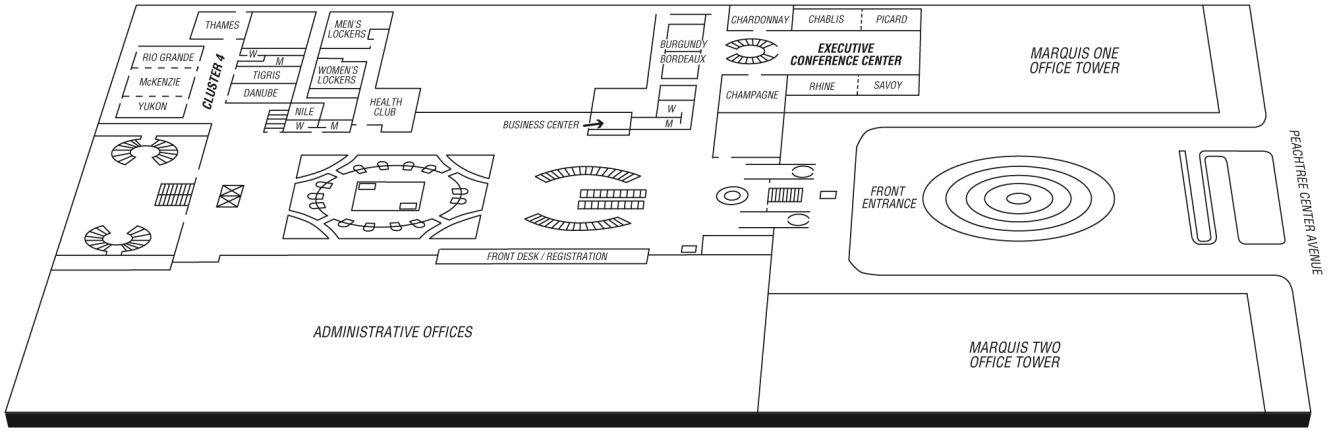

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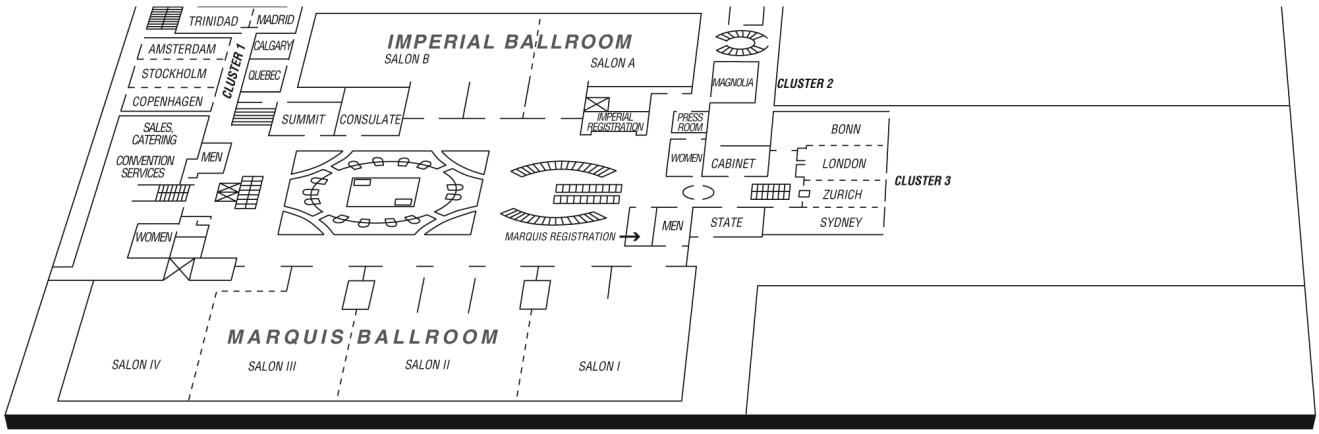

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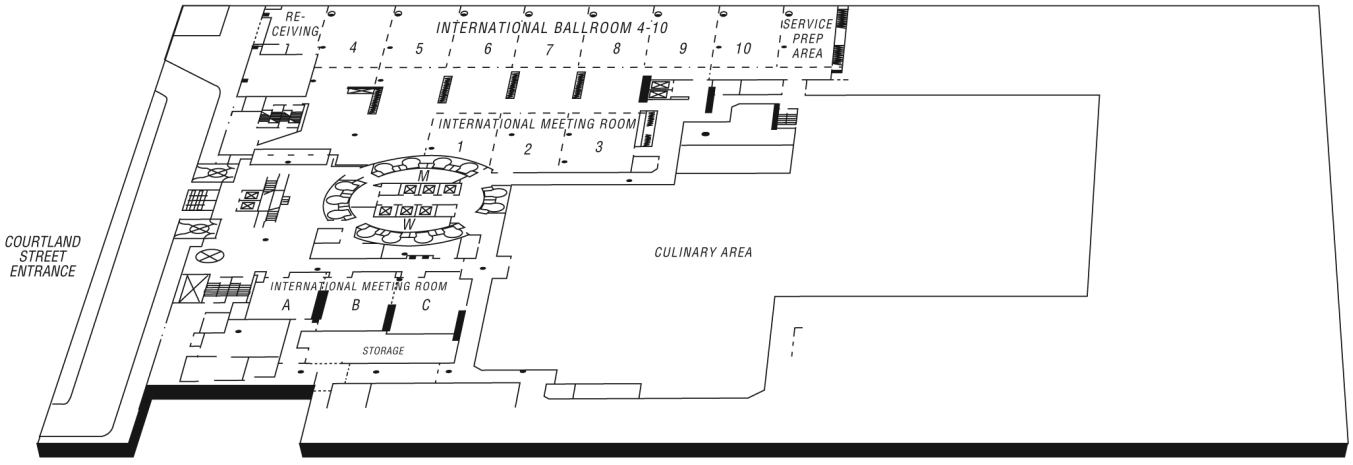

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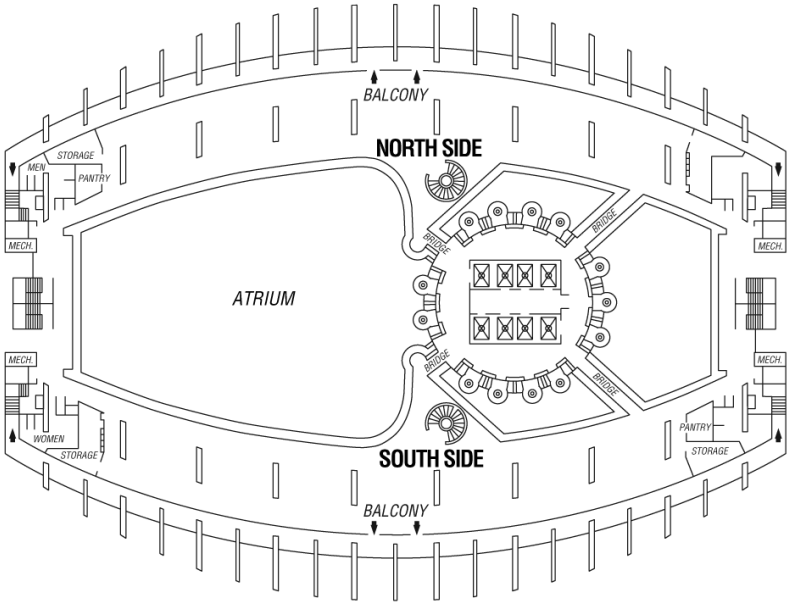

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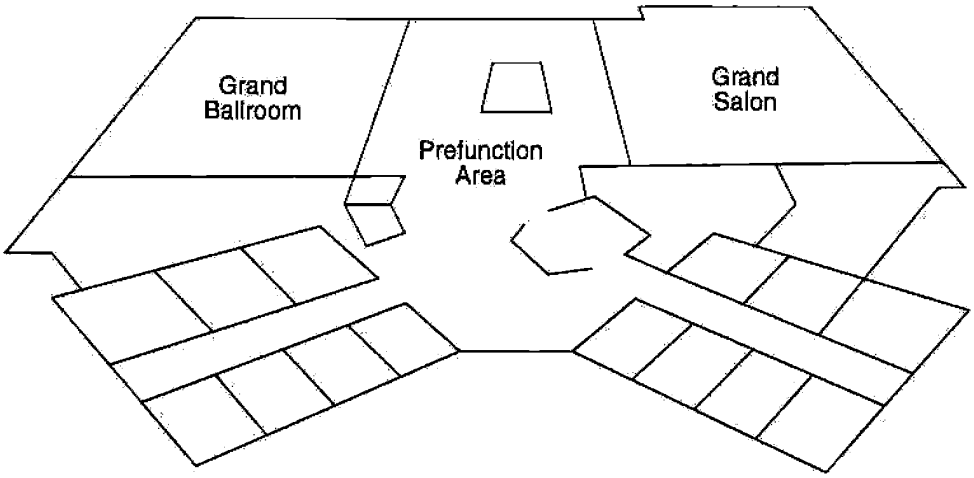

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