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Final Program
American Society of Tropical Medicine and Hygiene
54th Annual Meeting

ASTMH **54**th
annual meeting

December 11–15, 2005

Hilton Washington Hotel and Towers

washington, DC, USA

Supplement to

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

ASTMH Thanks the 54th Annual Meeting Supporters

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ASTMH **54th** Annual Meeting



American society of tropical medicine and hygiene



washington, DC, USA

December 11–15, 2005

Hilton Washington Hotel and Towers

Final Program

Abstract Book

See the ASTMH 54th Annual Meeting Abstract Book, included with your registration packet, to view the full text of abstracts presented at the annual meeting.



ASTMH
Annual Meeting 54th

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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 234.

Questions

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

Friday, December 9

4 p.m. – 6 p.m.	Registration
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Saturday, December 10

7 a.m. – 1 p.m.	Registration
8:30 a.m. – 4:30 p.m.	Pre-Meeting Course — Immune Regulation: Parasites and Chronic Infectious Diseases
Noon – 5:15 p.m.	Pre-Meeting Course — Anti-Malaria Chemoprophylaxis

Sunday, December 11

7:30 a.m. – 3 p.m.	Pre-Meeting Course — Anti-Malaria Chemoprophylaxis
8 a.m. – 3:30 p.m.	ASTMH Council Meeting
11 a.m. – 3:30 p.m.	Young Investigator Award Presentations
10:30 a.m. – 6 p.m.	Registration
11 a.m. – Noon	ACAV SIE Subcommittee Meeting
Noon – 2 p.m.	ACAV SIRACA Subcommittee Meeting
2 – 3:30 p.m.	ACAV SALS Subcommittee Meeting
3:30 p.m. – 5 p.m.	ACME Council Meeting
3:30 p.m. – 5:30 p.m.	ACAV Council Meeting
4 p.m. – 5 p.m.	Student Reception
5:30 p.m. – 7:30 p.m.	Opening Plenary Session and Awards Ceremony
7:30 p.m. – 9:30 p.m.	Opening Reception

Monday, December 12

7 a.m. – 5 p.m.	Registration
7 a.m. – 8 a.m.	Meet the Professors
7 a.m. – 8 a.m.	Clinical Group Council Meeting
7 a.m. – 8 a.m.	Program Certification Committee Meeting
8 a.m. – 9:45 a.m.	Scientific Sessions/Symposia
9:30 a.m. – 10:30 a.m.	Exhibits
9:45 a.m. – 10:15 a.m.	Break
10:15 a.m. – Noon	Scientific Sessions/Symposia
Noon – 1:30 p.m.	Exhibits
Noon – 1:30 p.m.	Poster Session A Setup
1:30 p.m. – 7 p.m.	Poster Session A Viewing
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
3:15 p.m. – 3:45 p.m.	Break
3:45 p.m. – 5:30 p.m.	Scientific Sessions/Symposia
4:30 p.m. – 5:30 p.m.	Exhibits
6 p.m. – 6:45 p.m.	Plenary Session: Soper Lecture
7 p.m. – 9 p.m.	Late Breakers in Basic Science/Molecular Biology
7 p.m. – 9 p.m.	Late Breakers in Clinical Tropical Medicine

Tuesday, December 13

7 a.m. – 5 p.m.	Registration
7 a.m. – 8 a.m.	Journal Editorial Board Breakfast
7 a.m. – 8 a.m.	Clinical Group Past Presidents Breakfast
7 a.m. – Noon	Poster Session A Viewing
8 a.m. – 9:45 a.m.	Scientific Sessions/Symposia
9:30 a.m. – 10:30 a.m.	Exhibits
9:45 a.m. – 10:15 a.m.	Break
10:15 a.m. – Noon	Scientific Sessions/Symposia
Noon – 1:30 p.m.	Exhibits
Noon – 1:30 p.m.	Poster Session A Presentations/Exhibits/Box Lunches
12:15 p.m. – 1:15 p.m.	Meet the Professors and Mid-Day Sessions
1:30 p.m. – 1:45 p.m.	Poster Session A Dismantle
1:30 p.m. – 3:15 p.m.	Scientific Sessions/Symposia
3 p.m. – 3:45 p.m.	Poster Session B Setup
3 p.m. – 4 p.m.	Exhibits
3:15 p.m. – 3:45 p.m.	Break
3:45 p.m. – 5:30 p.m.	Scientific Sessions/Symposia
3:45 p.m. – 7 p.m.	Poster Session B Viewing
6 p.m. – 6:45 p.m.	Plenary Session: Commemorative Fund Lecture
7 p.m. – 9 p.m.	Diploma Course Directors Meeting

Wednesday, December 14

7 a.m. – 5 p.m.	Registration
7 a.m. – 5:30 p.m.	Poster Session B Viewing
7 a.m. – 8 a.m.	ASTMH Past Presidents Breakfast
7 a.m. – 8 a.m.	Cyberspace Committee Meeting
7 a.m. – 8 a.m.	Program Committee Meeting
8 a.m. – 9:45 a.m.	Scientific Sessions/Symposia
9:30 a.m. – 10:30 a.m.	Exhibits
9:45 a.m. – 10:15 a.m.	Break
10:15 a.m. – Noon	Scientific Sessions/Symposia
Noon – 2:30 p.m.	Exhibits
Noon – 1:30 p.m.	Poster Session B Presentations/Box Lunches
Noon – 1:30 p.m.	Burroughs Wellcome Fund-ASTMH Fellowship Committee Meeting
12:15 p.m. – 1:15 p.m.	Meet the Professors and Mid-Day Sessions
12:15 p.m. – 1:15 p.m.	CME/Courses Committee Meeting
12:15 p.m. – 1:15 p.m.	Exam Executive Committee Meeting
1:30 p.m. – 3:15 p.m.	Scientific Sessions/Symposia
3:15 p.m. – 3:45 p.m.	Break
3:45 p.m. – 5:30 p.m.	Scientific Sessions/Symposia
5:30 p.m. – 7 p.m.	Poster Session B Dismantle
6 p.m. – 7:30 p.m.	Plenary Session: Presidential Address, Annual Business Meeting

Thursday, December 15

7 a.m. – 10:30 a.m.	Registration
7:30 a.m. – 9:30 a.m.	ASTMH Council Meeting
8 a.m. – 9:45 a.m.	Scientific Sessions/Symposia
9:45 a.m. – 10:15 a.m.	Break
10:15 a.m. – Noon	Scientific Sessions/Symposia
11:30 a.m. – 4 p.m.	Exam Committee Meeting
Noon	Meeting Adjourns

Schedule-at-a-Glance

Saturday, December 10

	Concourse Foyer	International Ballroom East	Jefferson	Lincoln West	Caucus	Map	Grant	
6:30 - 7:00 a.m.								
7:00 - 7:30 a.m.	Registration				Affiliate Group/ Committee Meeting			
7:30 - 8:00 a.m.								
8:00 - 8:30 a.m.								
8:30 - 9:00 a.m.								
9:00 - 9:30 a.m.								
9:30 - 10:00 a.m.								
10:00 - 10:30 a.m.								
10:30 - 11:00 a.m.								
11:00 - 11:30 a.m.								
11:30 a.m. - Noon								
Noon - 12:30 p.m.								
12:30 - 1:00 p.m.								
1:00 - 1:30 p.m.								
1:30 - 2:00 p.m.								
2:00 - 2:30 p.m.								
2:30 - 3:00 p.m.								
3:00 - 3:30 p.m.								
3:30 - 4:00 p.m.								
4:00 - 4:30 p.m.								
4:30 - 5:00 p.m.								
5:00 - 5:30 p.m.								
5:30 - 6:00 p.m.								
6:00 - 6:30 p.m.								
6:30 - 7:00 p.m.								
7:00 - 7:30 p.m.								
7:30 - 8:00 p.m.								
8:00 - 8:30 p.m.								
8:30 - 9:00 p.m.								
9:00 - 9:30 p.m.								
9:30 - 10:00 p.m.								

* Please note that Affiliate Meetings are by invitation only.

Schedule-at-a-Glance

Sunday, December 11

Time	Courthouse Foyer	Thoroughbred	Exhibit Hall	Adams	Bancroft	International Ballroom East	International Ballroom Center	Map	Lincoln East	Monroe West	Monroe East	Military	Caucas	State	Georgetown	Duport	Chevy Chase	Edson	Farragut	Grant
6:30 - 7:00 a.m.																				
7:00 - 7:30 a.m.		Speaker																		
7:30 - 8:00 a.m.		Ready Room																		
8:00 - 8:30 a.m.		Room (AV)		Press Room #1	Press Room #2	Clinical Pre-Meeting		ASTMH Council Meeting												
8:30 - 9:00 a.m.						Course														
9:00 - 9:30 a.m.		Prep Room				Anti-Malaria														
9:30 - 10:00 a.m.																				
10:00 - 10:30 a.m.						Chemoprophylaxis														
10:30 - 11:00 a.m.																				
11:00 - 11:30 a.m.	Registration																			
11:30 a.m. - Noon																				
Noon - 12:30 p.m.									Young Investigator Award A	Young Investigator Award B	Young Investigator Award C	Young Investigator Award D								
12:30 - 1:00 p.m.									p. 32	p. 33	p. 35	p. 36								
1:00 - 1:30 p.m.																				
1:30 - 2:00 p.m.																				
2:00 - 2:30 p.m.																				
2:30 - 3:00 p.m.																				
3:00 - 3:30 p.m.																				
3:30 - 4:00 p.m.																				
4:00 - 4:30 p.m.																				
4:30 - 5:00 p.m.																				
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6:00 - 6:30 p.m.																				
6:30 - 7:00 p.m.																				
7:00 - 7:30 p.m.																				
7:30 - 8:00 p.m.																				
8:00 - 8:30 p.m.																				
8:30 - 9:00 p.m.																				
9:00 - 9:30 p.m.																				
9:30 - 10:00 p.m.																				

* Please note that Affiliate Meetings are by invitation only.

Schedule-at-a-Glance

Monday, December 12

	Concourse Foyer	Thoroughbred	Exhibit Hall	Exhibit Hall	Adams	Bancroft	Hemisphere	Military	Monroe East	Monroe West	Lincoln East	Lincoln West
6:30 - 7:00 a.m.												
7:00 - 7:30 a.m.	Registration	Speaker Ready						1 Meet the Profs A p. 39				
7:30 - 8:00 a.m.		Room (AV Prep Room)										
8:00 - 9:45 a.m.		Exhibits Open 9:30-10:30			Press Room #1	Press Room #2	Symposium 2 Malaria Sexual Bio p. 39	Symposium 3 Non-ID Trop Med p. 40	Scientific Session 4 Arthropods/ Entomology p. 40	Symposium 5 Cysticercosis Peru p. 41	Scientific Session 6 Flavivirus Dengue I p. 41	Symposium 7 Malaria Long-term Travelers p. 42
9:45 - 10:15 a.m.		Coffee Break										
10:15 - Noon							Symposium 13 Schistosomiasis Egg Bio p. 46	Scientific Session 14 Protozoa p. 47	Symposium 15 BWF/EMF ASTMH Research p. 48	Symposium 16 Malaria Transmission Block Vaccine p. 48	Symposium 17 Proteomics Dx p. 49	Symposium 18 TB Vaccines p. 49
Noon - 12:15 p.m.			Exhibit Hall Open	Poster Session A Set-Up								
12:15 - 12:30 p.m.												
12:30 - 1:15 p.m.									24 Tropical ID Research Training p. 53			25 Meet the Professors B p. 53
1:15 - 1:30 p.m.												
1:30 - 3:15 p.m.				Poster Session A Viewing				Symposium 28 Schistosomiasis Control p. 54	Symposium 29 Tropical Neuro p. 55	Symposium 30 ID Surveillance p. 55	Symposium 31 Hepatitis E p. 56	Symposium 32 Artemisinins p. 56
3:15 - 3:45 p.m.			Coffee Break									
3:45 - 5:30 p.m.												
	5pm											
			Exhibits Open 4:30 - 5:30p									
5:30 - 6:00 p.m.									Symposium 37A HIV ART Africa p. 59	Symposium 38 Human Ecology p. 60	Symposium 39 Globalization of Diseases p. 60	Symposium 40 VHFs p. 61
6:00 - 6:45 p.m.												
6:45 - 7:00 p.m.												
7:00 - 9:00 p.m.												
9:00 - 10:00 p.m.												

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Schedule-at-a-Glance

Monday, December 12

Jefferson East	Jefferson West	Georgetown	International Ballroom East	International Ballroom West	International Ballroom Center	Map	Caucus	Dupont	Chevy Chase	Edison	Farragut
							Affiliate Group/Committee Meeting	Affiliate Group/Committee Meeting	Clinical Group Council Mtg	Program Cert Committee	
Scientific Session 8 Malaria Epi I <i>p. 43</i>	Symposium 9 Emerging Infectious Disease <i>p. 44</i>	Symposium 10 Translational Parasitology ACMCIP <i>p. 44</i>	Symposium 11 Artemether/Lumefantrine <i>p. 45</i>	Symposium 12 Typhoid Vaccines <i>p. 46</i>		Affiliate Meeting MVI-GSK Steering Committee Meeting 8-10am					Affiliate Meeting Institute for One World Health
Scientific Session 19 Malaria Epi II <i>p. 50</i>	Symposium 20 Trop Med Ultrasound <i>p. 51</i>	Symposium 21 Kinetoplast Genome/Proteome <i>p. 51</i>	Symposium 22 Fighting Malaria <i>p. 52</i>	Symposium 23 Women in Arbovirology ACAV <i>p. 52</i>					Tropical Medicine Curriculum Meeting		
	26 History of Medicine: Dengue <i>p. 53</i>		27 Healers Abroad IOM <i>p. 53</i>								
Symposium 33 Clinical Trials Dev World IOWH <i>p. 57</i>		Scientific Session 35 Clinical Trop Med I <i>p. 57</i>	Symposium 36 ACME I Mosquito Trans <i>p. 58</i>	Scientific Session 37 ACMCIP Mol Para I <i>p. 58</i>				Affiliate Meeting London School of Hygiene and Tropical Medicine U.S. Friends 2-6p			9-5p
Symposium 41 Ethics Internatl Research <i>p. 61</i>	Symposium 42 Artemisinin Combo Rx <i>p. 62</i>	Scientific Session 43 Clinical Trop Med II - <i>p. 62</i>	Symposium 44 ACME II Mosquito Trans <i>p. 63</i>	Scientific Session 45 ACMCIP Mol Para II - <i>p. 64</i>		Plenary 2 Soper - <i>p. 65</i>	Affiliate Meeting				
			Late Breakers Basic Science Molecular Biology <i>p. 65</i>	Late Breakers Clinical Tropical Medicine <i>p. 65</i>		London School of Hyg and Trop Med Alumni Reunion	Institute for One World Health				

Schedule-at-a-Glance

Tuesday, December 13

	Concourse Foyer	Thoroughbred	Exhibit Hall	Exhibit Hall	Adams	Bancroft	Hemisphere	Military	Monroe East	Monroe West	Lincoln East	Lincoln West	
6:30 - 7:00 a.m.													
7:00 - 7:30 a.m.	Registration	Speaker Ready		Poster Session A									
7:30 - 8:00 a.m.		Room (AV Prep Room)		Viewing									
8:00 - 9:45 a.m.				Exhibits Open 9:30-10:30	Press Room #1	Press Room #2	Scientific Session 46 Malaria Mosquito Bio p. 65	Scientific Session 47 Viruses I Hantaviruses p. 66	Scientific Session 48 Kinetoplastida I p. 67	Scientific Session 49 Cestodes I p. 68	Scientific Session 50 Malaria Drug Dev p. 69	Symposium 51 Social Political Trop Med p. 70	
9:45 - 10:15 a.m.				Coffee Break									
10:15 a.m. - Noon							Symposium 58 Parasitic Vaccine Design p. 74	Symposium 59 Malaria Anemia FIC p. 75	Scientific Session 60 Kinetoplastida II p. 75	Scientific Session 61 Cestodes II p. 76	Scientific Session 62 Malaria Artemisinin Combo Tx p. 77	Symposium 63 Genomics Genetics Malaria p. 79	
Noon - 12:15 p.m.			Exhibits Open	Poster Session A					70 History of Medicine:				
12:15 - 12:30 p.m.				p. 83					Kyasanur Forest Disease (Movie)		71		
12:30 - 1:15 p.m.			Box Lunch						p. 120		Meet the Profs C p. 121		
1:15 - 1:30 p.m.				Poster Sess A									
1:30 - 2:00 p.m.				dismantle to 1:45							Scientific Session 73	Scientific Session 74	
2:00 - 3:15 p.m.											Flavivirus Dengue II p. 121	Malaria Immunology I p. 122	
3:15- 3:45 p.m.			Exhibits Open 3-4pm	Poster Sess B Set-Up 3-3:45									
3:45 - 5:30 p.m.			Coffee Break	Poster Session B					Symposium 80 Gene Expression Malaria p. 127	Scientific Session 81 Ectoparasite-Borne I p. 127	Scientific Session 82 Flavivirus Vaccines p. 128	Scientific Session 83 Malaria Immunology II p. 129	
5pm				Viewing									
5:30 - 6:00 p.m.													
6:00 - 6:45 p.m.													
6:45 - 7:00 p.m.													
7:00 - 7:30 p.m.													
7:30 - 8:00 p.m.													
8:00 - 8:30 p.m.													
8:30 - 9:00 p.m.													
9:00 - 9:30 p.m.													
9:30 - 10:00 p.m.													

* Please note that Affiliate Meetings are by invitation only.

Schedule-at-a-Glance

Tuesday, December 13

Jefferson East	Jefferson West	Georgetown East	Georgetown West	International Ballroom East	International Ballroom West	International Ballroom Center	Caucus	State	Dupont	Chevy Chase	Edison	Farragut
							Affiliate Group/Committee Meeting	Journal Ed Board	Affiliate Group/Committee Meeting	Clinical Grp Past Pres	Affiliate - 3rd Annl NIAID Contract	
Scientific Session 52 Schistosomiasis I Immunology Mol Bio - p. 70	Symposium 53 Human ID Gene Expression p. 71	Scientific Session 54 Malaria Mol Bio Path I p. 72	Symposium 55 Apicomplexa Cell Traversing p. 73	Symposium 56 Leptospirosis p. 73	Symposium 57 ORT iOWH p. 74							Affiliate Meeting
												Institute for OneWorld Health
Scientific Session 64 Schistosomiasis II Epi I p. 79	Symposium 65 Soil Helminth Control p. 80	Scientific Session 66 Mosquitos Biochem Mol Bio Mol Gen I p. 81	Symposium 67 Flavivirus Neutralizing Antibodies p. 82	Symposium 68 Tropical Medicine and Media p. 82	Symposium 69 Measles MSF p. 83							
72 Bioinformatic Update NCBI p. 121		72A Vector Containment ACME p. 121										
Symposium 75 Indoor Spraying p. 123	Symposium 76 Anopheline Larvae p. 124	Symposium 77 Viral-Vectored Vaccines p. 124	Scientific Session 78 Filariasis I p. 125	Symposium 78A Clinical Group I p. 126	Scientific Session 79 ACMCIP Cell Para I p. 126							Affiliate Meeting WRAIR Sandfly Meeting
Symposium 84 Schistosomiasis/ Biomphalaria p. 130	Symposium 85 Mosquitoes Signal Transduction p. 131		Scientific Session 86 Filariasis II p. 131	Symposium 87 Clinical Group II p. 132	Scientific Session 88 ACMCIP Cell Para II p. 132							9-5p
						Plenary 3 Comm Fund p. 133						
								Affiliate Mtg Gates Trans Blocking Vaccines				

Schedule-at-a-Glance

Wednesday, December 14

	Concourse Foyer	Thoroughbred	Exhibit Hall	Exhibit Hall	Adams	Bancroft	Hemisphere	Military	Monroe East	Monroe West	Lincoln East	Lincoln West	Jefferson East										
6:30 - 7:00 a.m.																							
7:00 - 7:30 a.m.	Registration	Speaker Ready Room (AV Prep Room)	Exhibits Open 9:30-10:30	Poster B Viewing	Press Room #1	Press Room #2	Symposium 89 Insect Growth Regulators <i>p. 134</i>	Scientific Session 90 Bacteriology I Diarrhea <i>p. 134</i>	Scientific Session 91 Viruses II <i>p. 135</i>	Scientific Session 92 Mosquito Vector Bio/ Epi I <i>p. 136</i>	Scientific Session 93 Malaria - Mol Markers of Drug Resist - <i>p. 137</i>	88A Symposium											
7:30 - 8:00 a.m.												Roll Back Malaria <i>p. 133</i>											
8:00 - 9:45 a.m.												Symposium 94 African Trypanosomiasis I <i>p. 138</i>	Symposium 95 Malaria Pathogenesis <i>p. 139</i>										
9:45 - 10:15 a.m.			Coffee Break																				
10:15 a.m. - Noon							Scientific Session 101 Filariasis III <i>p. 142</i>	Scientific Session 102 Bacteriology II Diarrhea - Other - <i>p. 143</i>	Symposium 103 Dengue Thailand <i>p. 144</i>	Scientific Session 104 Mosquito Vector Bio/ Epi II <i>p. 144</i>	Scientific Session 105 Malaria Clinical Trials <i>p. 145</i>	Symposium 106 African Trypanosomiasis II <i>p. 146</i>	Symposium 107 Malaria Vaccine Technology Roadmap <i>p. 147</i>										
Noon - 12:15 p.m.			Exhibits Open and Box Lunch 2:30pm	Poster Session B Viewing																			
12:15 - 12:30 p.m.																							
12:30 - 1:15 p.m.																							
1:15 - 1:30 p.m.																							
1:30 - 2:00 p.m.																							
2:00 - 3:15 p.m.							Scientific Session 116 HIV <i>p. 185</i>	Scientific Session 117 Ectoparasite Borne II - <i>p. 186</i>	Symposium 118 Vaccine Dev I FDA <i>p. 186</i>	Scientific Session 119 Mosquito Vector Bio/Epi III <i>p. 187</i>		Symposium 120 Peds Travel Med <i>p. 188</i>	Symposium 120A Global Anti-Malarial Database <i>p. 188</i>										
3:15 - 3:45 p.m.			Coffee Break																				
3:45 - 5:30 p.m.							Scientific Session 126 Malaria Bio Path II <i>p. 192</i>	Symposium 127 Vaccines II Bio Rx FDA <i>p. 193</i>	Symposium 128 Insect-Parasite <i>p. 193</i>	Symposium 129 Vector Modeling <i>p. 194</i>	Symposium 130 Peds Trop Med <i>p. 194</i>												
5:30 - 6:00 p.m.				Poster																			
6:00 - 6:45 p.m.				Session B																			
6:45 - 7:00 p.m.				Dismantle																			
7:00 - 7:30 p.m.																							

* Please note that Affiliate Meetings are by invitation only.

Schedule-at-a-Glance

Wednesday, December 14

Jefferson West	Georgetown East	Georgetown West	International Ballroom East	International Ballroom West	International Ballroom Center	Caucus	State	Adams	Dupont	Chevy Chase	Edison	Farragut	Grant
						Program Comm Mtg	ASTMH Past Pres Mtg				Cyberspace/ Web Site		
Symposium 96 Schistosomiasis Current <i>p. 139</i>	Symposium 97 Nosocomial ID Tropics <i>p. 140</i>	Symposium 98 Helminth Immunomodulation <i>p. 140</i>	Symposium 99 Dev World EIDs <i>p. 141</i>	Scientific Session 100 Malaria Dx <i>p. 141</i>		Affiliate Group/ Committee Meeting			Affiliate Group/ Committee Meeting			Affiliate Meeting	Affiliate Meeting
												Institute for One World Health Board of Directors Meeting	
Symposium 108 Schistosomiasis II Future <i>p. 147</i>	Symposium 109 Scientific Manuscripts AJTMH <i>p. 148</i>	Symposium 110 Sex Hormone Effect Parasites <i>p. 148</i>	Symposium 111 New Initiatives Malaria BWF <i>p. 149</i>	Symposium 112 Echinococcosis Rx <i>p. 149</i>									
								CME/ Courses Comm		BWF- ASTMH Fellowship Comm	Exam Exec Comm Mtg		
Symposium 121 Japanese Encephalitis I <i>p. 189</i>	Symposium 122 Polymicrobial Tropical ID <i>p. 189</i>	Symposium 123 Ecology Tropical ID <i>p. 190</i>	Symposium 124 Chagas MSF <i>p. 190</i>	Scientific Session 125 Immunoparasitology ACMCIP <i>p. 191</i>									
Symposium 131 Japanese Encephalitis II <i>p. 195</i>		Symposium 133 Synthetic Trioxolane Antimalarial RBx11160/02277 <i>p. 195</i>		Scientific Session 135 Immunoparasitology II ACMCIP <i>p. 196</i>									
					Plenary 4 Pres Address Ann Bus Mtg <i>p. 196</i>								

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John Donelson
Anthony A. James
Alan Magill
Claire Panosian
Carol Hopkins Sibley
Gary J. Weil
A. Clinton White
Mark L. Wilson

Editor, *American Journal of Tropical Medicine and Hygiene*

James Kazura

Editor, *Tropical Medicine and Hygiene News*

Michael Hollingdale

Chair, Scientific Program Committee

Edward T. Ryan

American Society of Tropical Medicine and Hygiene



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

Scientific Program Committee

Edward T. Ryan, *Chair*

Bacteriology

Chair: Edward T. Ryan
Pavani Kalluri
Regina LaRocque

Bioterrorism

Chair: Daniel Carucci
Carter Diggs
James Hughes
George Korch

Clinical Tropical Medicine

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

Corporate Industry Liaison

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Jeff Chulay
Bradley Connor
Adel Mahmoud
Jaco Smit

Entomology

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Kathryn Aultman
David Severson

Filariasis

Chair: Amy Klion
Sara Lustigman
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T.V. Rajan
Gary Weil

Schistosomiasis-Helminths

Chair: Tom Wynn
Evan Secor
Miguel Stadecker

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

Anthony James
Stefan Kappe

Malaria

Chair: Carol Sibley
Jeanne Courval
Johanna Daily
Mary Hamel
Sanjai Kumar
Monica Parise
Chris Plowe
Joe Vinetz
Sarah Volkman
Kim Williamson
Yimin Wu

Meet the Professors

Alan Spira

Molecular Parasitology

Chair: Michael Cappello
John Adams
Barbara Burleigh
Daniel Carucci
Beth Kirkpatrick
Barbara Mann
Diane McMahon-Pratt
Thomas Nutman
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

Virology

Chair: David Vaughn
Carol Blair
Scott Halstead
George Ludwig
Rebeca Rico-Hesse
Michael Turell

Archives

Donald Burke, *Chair*

Audit

George Hillyer; Stephen Hoffman; Dyann Wirth

Awards

Michele Barry (2003-2005); William Petri (2004-2006); Peter Weller (2005-2007)

Benjamin H. Kean Traveling Fellowship in Tropical Medicine

Christopher Plowe, *Chair*; Alberto Acosta; Frank Bia; Stephen Hoffman; Colette Kean; Martin Wolfe

Bioterrorism

Daniel Carucci, *Chair*; Carter Diggs; James Hughes, George Korch

Burroughs Wellcome Fund-ASTMH Fellowship

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

Certificate Examination

David Freedman, *Chair*; Jovita Fernandez; Mary Gabriel; Lisa Keep; Ali Khan; Victor Kovner; Sheila Mackell; James Maguire; Susan McLellan; Claire Panosian; Alan Spira; A. Clinton White

Certificate Exam Executive Committee

James Maguire, *Chair*; David Freedman; George Hillyer (2003-2005); Larry Laughlin; Jan Evans Patterson (2004-2006); Tom Monath (2005)

Commemorative Fund Lectureship

Tom Monath, *Chair* (2005)

Communications Award

Claire Panosian, *Chair*; Jon Cohen; David Hill; Susan Okie; Mary E. Wilson

Continuing Medical Education

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

Corporate Liaison

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

Courses

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

Credentialing

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

Current Affairs

Richard Guerrant, *Chair*; Joseph Cook; Jacob Frenkel; Scott Halstead

Cyberspace/Web Site

Ken Dardick, *Chair*; Kathryn Aultman; Stephen Cunnion; Akhil Vaidya; Dawn Wesson, Jack Woodall

Editorial Board, American Journal of Tropical Medicine and Hygiene

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

Education

Peter Weller, *Acting Chair*

Fundraising

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

Gorgas Memorial Institute Research Award

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

Honorary Membership

Richard Guerrant, *Chair*; John David; Thomas Monath; Frank Neva

International Federation of Tropical Medicine Representative

Don Krogstad

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

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

Legislative Action

Peter Hotez, *Co-Chair*; Eric Ottesen, *Co-Chair*; Donald Burke; Stephen Hoffman; Alan Magill; Philip Russell

Membership

George Hillyer, *Acting Chair*

Newsletter Editorial Board

Michael Hollingdale, Editor (2005-2007); Kathryn Aultman; Latha Rajan; Mitzi Sereno; Karl Western

Nominations

Peter Weller, *Chair* (2005); John Adams (2004-2005); Bruce Christensen (2004-2005); Rebeca Rico-Hesse (2005-2006); Peter Hotez (2004-2005); Larry Laughlin (2005-2006); James Maguire (2005-2006); Christopher Plowe (2004-2005); Regina Rabinovich (2005-2006); Robert Tesh (2005-2006); Dyann Wirth (2004-2005)

Pfizer Centennial Travel Award

Joe Vinetz, *Chair*; John Adams; Barbara Burleigh; Michael Cappello; Barbara Mann; Diane McMahon-Pratt

Program Certification

James Maguire, *Chair*; Robert Goldsmith; Richard Guerrant; Stephen Hoffman; James Kazura; Jay Keystone; Donald Krogstad; Leonard Marcus; Peter Weller

Robert E. Shope International Fellowship

Charles Calisher, *Chair*; Barry Beaty; Donald Burke; George Ludwig; Phillip Russell; Peter Weller

Scientific Program

Edward T. Ryan, *Chair* (2005-2007)

Travel Awards

James LeDuc, *Chair*; James Maguire; Barry Miller; Terrie Taylor; Eileen Villasante; Joe Vinetz

Update Course in Clinical Tropical Medicine and Travelers' Health

Alan Magill, *Co-Chair*; Richard Pearson, *Co-Chair*

Young Investigator Award

Peter Zimmerman, *Chair*; Daniel Bausch; Brenda Beerntsen; Caryn Bern; Michael Ferdig; Anthony James; Christopher King; Nicholas Komar; Julian Rayner; Evan Secor



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Executive Director

Judy DeAcetis

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Administrative Assistant

Lyn Maddox

Conference Director

Madhuri Carson

Conference Manager

Jill Hronek

Communications Director

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

ASTMH designates its 54th Annual Meeting for a maximum of 35.5 hours in Category 1 credit toward the AMA Physician's Recognition Award. Each physician should claim only those hours of credit actually spent in the meeting.

Register for CME Credit

The CME documentation fee is \$100. CME certificates will be mailed shortly after the annual meeting.

New for 2005! 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.

Meeting Information

Registration Hours

Concourse Foyer

Sunday, December 11	10:30 a.m. – 6 p.m.
Monday, December 12	7 a.m. – 5 p.m.
Tuesday, December 13	7 a.m. – 5 p.m.
Wednesday, December 14	7 a.m. – 5 p.m.
Thursday, December 15	7 – 10:30 a.m.

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.

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.

Hotel Information

All ASTMH annual meeting activities will take place at the Hilton Washington Hotel and Towers.

Hilton Washington Hotel and Towers

1919 Connecticut Ave. NW
Washington, DC 20009
202/483-3000
Fax 202/232-0438

Hotel Parking

Parking at the Hilton Washington Hotel and Towers is currently available at the following rates:

1 hour	\$9.00
2 hours	\$13.00
3 hours	\$16.00
4 hours or more	\$21.00

There is no valet parking available at the hotel.

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 202/483-3000, the main switchboard of the Hilton Washington Hotel and Towers. Faxes can be sent to the hotel at 202/232-0438.

Americans with Disabilities Act

ASTMH fully complies with the legal requirements of the ADA and the rules and regulations thereof. Please notify us if you have any special needs.

Exhibits

Exhibit Hall

The ASTMH 54th 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, December 11	7:30 – 9:30 p.m.
Monday, December 12	9:30 – 10:30 a.m. Noon – 1:30 p.m. 4:30 – 5:30 p.m.
Tuesday, December 13	9:30 – 10:30 a.m. Noon – 1:30 p.m. 3 – 4 p.m.
Wednesday, December 14	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 own exhibit area. Solicitations by unauthorized persons are strictly prohibited.

Food Functions

The following food functions are included in the registration fee:

- Opening reception (Sunday)
- Poster session lunches (Tuesday and Wednesday)
- Coffee breaks

Special functions for students, fellows and residents

- Student reception (Sunday)
- Meet the Professors continental breakfast (Monday)

Cyber Café

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

Committee Meetings

The Caucus Room and Dupont Room, located on the terrace level of the hotel, are designated for committee meetings and other group meetings. Meeting room reservations are available on a first-come, first-served basis. A sign-up sheet is located outside these rooms. Visit these rooms to sign up for meeting space and reserve time for your group. A complete list of pre-scheduled ASTMH committee meetings can be found on page 31.

Press Room

The press room is located in the Adams Room on the terrace level. ASTMH press kits are available. Press announcements and other details can be found in the Adams Room.

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.

Employment Opportunities

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

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.

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
- 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

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Contributor

Concentra
Hydas World Health
Presutti Laboratories
Romark Laboratories, L.C.
Vical Inc.
World Health Organization

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 meeting literature. 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 this number along to an interested non-member. We hope that the trial subscriptions are used and that more people will be interested in joining ASTMH as a result.

AJTMH Symposium

This is the first year that the journal will have a symposium. The session is designed to educate attendees about the journal and the publishing process as a whole. We will discuss 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 meeting literature 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.

Program Information

Late Breaker Abstracts

Late Breakers in Clinical Tropical Medicine

Monday, December 12

7 - 9 p.m.

International Ballroom West

Late Breakers in Basic Science/Molecular Biology

Monday, December 12

7 - 9 p.m.

International Ballroom East

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 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. While the professors will lead the program and have some prepared remarks, the sessions will be largely question and answer and discussion in 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.

Speaker Ready Room and Audiovisual Facilities

Thoroughbred Room

Audiovisual preview and submission facilities are provided beginning Sunday, December 11, at 7 a.m. in the Thoroughbred Room, located on the concourse level of the hotel.

All oral presentations must be in PowerPoint. Slides and overheads are not permitted (slide projectors and overhead projectors will not be used at the annual meeting).

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. If you have an afternoon presentation and are unable to load your presentation the day before, visit the Speaker Ready Room on the morning of your talk.

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

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 load your presentation in the Speaker Ready Room 24 hours prior to presentation time.

Hours of Operation:

Sunday, December 11	7 a.m. - 5 p.m.
Monday, December 12	7 a.m. - 7 p.m.
Tuesday, December 13	7 a.m. - 5:30 p.m.
Wednesday, December 14	7 a.m. - 5:30 p.m.
Thursday, December 15	7 a.m. - Noon

History of Tropical Medicine Sessions

Take note of the following sessions highlighting the history of tropical medicine:

Mid-Day Session 26

History of Medicine: Dengue

Jefferson West

Monday, December 12

12:15 p.m. - 1:15 p.m.

Mid-Day Session 70

History of Medicine: Kyasanur Forest Disease (Movie)

Monroe East

Tuesday, December 13

12:05 p.m. - 1:20 p.m.

"The Story of Kyasanur Forest Disease," was filmed in 1956-1957 by Telford H. Work, then director of the Virus Research Center in Poona, India.

Mid-Day Session 114

History of Medicine: Yellow Fever (Movie)

Lincoln West

Wednesday, December 14

12:15 p.m. - 1:15 p.m.

This 40-minute film relates the expedition undertaken in 1954 by Richard Moreland Taylor and young scientists Herbert Hurlbutt and Telford H. Work, all working under the auspices of the Rockefeller Foundation at NAMRU-3, Cairo, Egypt.

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.

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.

SAVE THE DATE!
ASTMH 55th Annual Meeting
November 12-16, 2006
Marriott Atlanta Marquis
Atlanta, GA USA

ASTMH 56th Annual Meeting
November 4-8,
2007
Philadelphia Marriott
Philadelphia, PA USA



Calista and Ottis Causey



Thomas H. Weller



Robert Coatney



Alexander Langmuir



Telford H. Work

Workers in Tropical Medicine Video Presentation

Concourse Foyer

Workers in Tropical Medicine: Oral History Project Re-Initiated

This project, originally the brainchild of Linda Brink (former ASTMH archivist) is being re-initiated this year. 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 area in the concourse 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 will begin to produce new video biographies, with the intention to publish these in the ASTMH journal with links to the video/audio versions on the Web. The first of the new series will be produced at this year's meeting. This project has obvious importance to the field of tropical medicine in general and to the Society in particular. We urge you to visit the viewing area and will value your comments and suggestions.



William C. Reeves



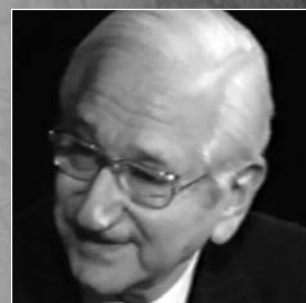
Jordi Casals-Ariet



Thomas P. Monath



Karl F. Meyer



Albert Sabin

ASTMH Annual meeting 54th

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

Andrea Bertolotti-Ciarlet

*University of Pennsylvania
Philadelphia, Pennsylvania, United States
Abstract 580*

Douglas Boettner

*University of Virginia
Charlottesville, Virginia, United States
Abstract 485*

Juan Calix

*Loyola University New Orleans
New Orleans, Louisiana, United States
Abstract 147*

Lon Chanthap

*National Malaria for Parasitology, Entomology and Malaria Control
Program (CNM)
Phnom Penh City, Cambodia
Abstract 188*

Tran Thuy Chau

*Hospital for Tropical Diseases
Ho Chi Minh City, Vietnam
Abstract 578*

Marina Chavchich

*Australian Army Malaria Institute
Enoggera, Australia
Abstract 123*

Julie Clennon

*University of Illinois
Urbana, Illinois, United States
Abstract 136*

Hanan Helmy

*Ain Shams University
Cairo, Egypt
Abstract 563*

Sulggi Lee

*University of Southern California
South Pasadena, California, United States
Abstract 21*

Khaled Mahmoud Abd Elaziz

*Ain Shams University
Cairo, Egypt
Abstract 283*

Joao Luiz Mendes Wanderley

*National Cancer Institute/Brazil
Rio de Janeiro, Brazil
Abstract 542*

Sammy Njenga

*University of Liverpool
Nairobi, Kenya
Abstract 279*

Mike Osei-Atweneboana

*McGill University
St Anne-De-Bellevue, Quebec, Canada
Abstract 532*

Tasanee Panichakul

*Mahidol University
Bangkok, Thailand
Abstract 315*

Narong Ponsa

*Armed Forces Research Institute of Medical Sciences
Bangkok, Thailand
Abstract 421*

Innocent Safeukui Nobissi

*Laboratoire d'Immunologie-Parasitologie
Bordeaux, France
Abstract 318*

Melanie Samuel

*Washington University
St Louis, Missouri, United States
Abstract 1018*

Hai-Wei Wu

*Nanjing Medical University
Nanjing, Jiangsu, China
Abstract 495*

2005 American Committee of Medical Entomology (ACME) Travel Awards

Rebekah Kent

*Johns Hopkins University Bloomberg
School of Public Health
Baltimore, Maryland, United States
Abstract 587*

Sharon Minnick

*University of California at Davis
Davis, California, United States
Abstract 13*

Sunday, December 11

ACAV SIE Subcommittee Meeting

Dupont

11 a.m. - Noon

ACAV SIRACA Subcommittee Meeting

Dupont

Noon - 2 p.m.

ACAV SALS Subcommittee Meeting

Dupont

2:15 - 3:15 p.m.

ACAV Council Meeting

Dupont

3:30 - 5:30 p.m.

ACME Council Meeting

Chevy Chase

3:30 - 5 p.m.

Young Investigator Award Committee Meeting

Monroe East

3:30 - 5 p.m.

Monday, December 12

Program Certification Committee

Edison

7 - 8 a.m.

Clinical Group Council Meeting

Chevy Chase

7 - 8 a.m.

Tuesday, December 13

Clinical Group Past Presidents Breakfast

State

7 - 8 a.m.

Journal Editorial Board Breakfast

State

7 - 8 a.m.

Wednesday, December 14

Cyberspace/Web Site Committee

Edison

7 - 8 a.m.

Program Committee Meeting

Caucus

7 - 8 a.m.

ASTMH Past Presidents Breakfast

State

7 - 8 a.m.

Burroughs Wellcome Fund - ASTMH Fellowship Committee

Chevy Chase

Noon - 1:30 p.m.

Exam Executive Committee

Edison

12:15 - 1:15 p.m.

CME/Courses Committee

Adams

12:15 - 1:15 p.m.

Thursday, December 15

Certificate Exam Committee Meeting

Edison

11:30 a.m. - 4 p.m.

Friday, December 9

Registration

Concourse Foyer

Friday, December 9 4 – 6 p.m.

Saturday, December 10

Registration

Concourse Foyer

Saturday, December 10 7 a.m. – 1 p.m.

Pre-Meeting Course

Immune Regulation: Parasites and Chronic Infectious Diseases

Jefferson

Saturday, December 10 8:30 a.m. – 4:30 p.m.

Pre-Meeting Course

Anti-Malaria Chemoprophylaxis

International Ballroom East

Saturday, December 10 Noon – 5:15 p.m.

Sunday, December 11

Pre-Meeting Course

Anti-Malaria Chemoprophylaxis

International Ballroom East

Sunday, December 11 7:30 a.m. – 3 p.m.

ASTMH Council Meeting

Map

Sunday, December 11 8 a.m. – 3:30 p.m.

Registration

Concourse Foyer

Sunday, December 11 10:30 a.m. – 6 p.m.

ACAV SIE Subcommittee Meeting

Dupont

Sunday, December 11 11 a.m. – Noon

Young Investigator Award Presentations

In Honor of William A. Petri, Sr.

Supported with funding from TechLab Inc.

Young Investigator Award Session A

Lincoln East

Sunday, December 11 11 a.m. – 3:30 p.m.

CHAIR

Caryn Bern

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

W. Evan Secor

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

11 a.m.

POLYPARASITISM AND CHILDHOOD ANEMIA: EVIDENCE OF SYNERGISTIC AND ANTAGONISTIC INTERACTIONS BETWEEN HELMINTH SPECIES IN MULTIPLY INFECTED CHILDREN

Amara E. Ezeamama¹, Stephen T. McGarvey¹, Luz P. Acosta², Jonathan D. Kurtis¹, Vincent Mor¹, Remy M. Olveda², Jennifer F. Friedman¹

¹*Brown University, Providence, RI, United States*, ²*Research Institute of Tropical Medicine, Manila, Philippines*

11:15 a.m.

ANALYSIS OF THE POPULATION GENETICS OF CONCURRENT SELECTION WITH ALBENDAZOLE AND IVERMECTIN ON THE POSSIBLE DEVELOPMENT OF ALBENDAZOLE RESISTANCE

Anne E. Schwab¹, Andreas J. Schwab², Thomas S. Churcher³, Maria-Gloria Basanez³, Roger K. Prichard¹

¹*McGill University, Ste-Anne-de-Bellevue, PQ, Canada*, ²*McGill University, Montreal, PQ, Canada*, ³*Imperial College, London, United Kingdom*

11:30 a.m.

HUMAN ECHINOCOCCOSIS IN NINGXIA HUI AUTONOMOUS REGION, NORTH-CENTRAL CHINA: FROM PAST TO PRESENT

Yu R. Yang¹, Yu R. Yang², Philip S. Craig³, Dominique A. Vuitton⁴, Patrick Giraudoux⁴, David Pleydell³, Tao Sun², Malcolm Jones¹, Donald P. McManus¹

¹*Queensland Institute of Medical Research, Brisbane, Australia*, ²*Ningxia Medical College, Yinchuan, Ningxia Hui Autonomous Region, China*, ³*National Institutes of Health Echinococcosis China Work Group, Salford, United Kingdom*, ⁴*National Institutes of Health Echinococcosis China Work Group, Besancon, France*

11:45 a.m.

UNDERSTANDING PHAGOCYTOSIS FOLLOWING HOST-CELL KILLING BY *ENTAMOEBIA HISTOLYTICA*

Douglas R. Boettner¹, Christopher D. Huston², William A. Petri¹

¹*University of Virginia, Charlottesville, VA, United States*, ²*University of Vermont, Burlington, VT, United States*

Noon**IMPROVEMENT OF NUTRITIONAL STATUS AFTER TREATMENT OF *SCHISTOSOMA JAPONICUM*-INFECTED CHILDREN, ADOLESCENTS AND YOUNG ADULTS**

Hannah M. Coutinho¹, Luz P. Acosta², Stephen T. McGarvey¹, Blanca Jarilla², Archie Pablo², Li Su¹, Daria L. Manalo², Remigio M. Olveda², Jonathan D. Kurtis¹, Jennifer F. Friedman¹

¹International Health Institute, Brown University, Providence, RI, United States, ²Research Institute of Tropical Medicine, Manila, Philippines

12:15 p.m.**RE-INVESTIGATING THE GLOBAL BURDEN OF DISEASE DUE TO *SCHISTOSOMA JAPONICUM***

Julia L. Finkelstein¹, **Stephen T. McGarvey**², Mark D. Schleinitz³

¹Department of Community Health, Brown University, Providence, RI, United States, ²International Health Institute, Department of Community Health, Brown University, Providence, RI, United States, ³Rhode Island Hospital, Providence, RI, United States

12:30 p.m.**LEISHMANIA SPECIES SELECTIVELY PRIME HUMAN DENDRITIC CELLS FOR INTERLEUKIN-12 PRODUCTION**

Asha Jayakumar, Mary Ann McDowell

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

12:45 p.m.**INFECTION BY *MYCOBACTERIUM LEPRAE* AND IMMUNE CHARACTERISTICS OF HOUSEHOLD CONTACTS AND LEPROSY PATIENTS FROM COLOMBIA**

Nora M. Cardona-Castro¹, Miryan M. Sánchez¹, Camilo Beltrán-Alzate¹, Rubén D. Manrique-Hernández²

¹Instituto Colombiano de Medicina Tropical - CES, Sabaneta, Antioquia, Colombia, ²Instituto de Ciencias de la Salud- CES, Medellín, Antioquia, Colombia

1 p.m.**T HELPER 2 CYTOKINE RESPONSES PREDICT RESISTANCE TO REINFECTION WITH *SCHISTOSOMA JAPONICUM* AFTER PRAZIQUANTEL (PZQ) TREATMENT IN 7 - 30 YEAR-OLD INHABITANTS OF LEYTE, THE PHILIPPINES**

Tjalling Leenstra¹, Luz P. Acosta², Gretchen C. Langdon¹, Hai-Wei Wu¹, Julie S. Solomon¹, Blanca Jarilla², Daria L. Manalo², Li Su¹, Remigio M. Olveda², Stephen T. McGarvey¹, Jennifer F. Friedman¹, Jonathan D. Kurtis¹

¹Brown University, Providence, RI, United States, ²RITM, Manila, Philippines

1:15 p.m.**A NOVEL PRO-INFLAMMATORY T CELL SUBSET MEDIATES HIGH PATHOLOGY IN SCHISTOSOMIASIS**

Laura I. Rutitzky, Jessica R. Lopes da Rosa, Miguel J. Stadecker

Tufts University School of Medicine, Boston, MA, United States

1:30 p.m.**DETECTION OF ANTIBODIES AGAINST *FASCIOLA HEPATICA* IN PATIENTS WITH LIVER CIRRHOSIS IN PERU**

Luis Marcos¹, Alejandro Bussalleu¹, Angelica Terashima¹, José R. Espinoza²

¹Instituto de Medicina Tropical Alexander von Humboldt, Lima, Peru, ²Facultad de Ciencias y Filosofía "Alberto Cazorla Talleri" - Universidad Peruana Cayetano Heredia, Lima, Peru

1:45 p.m.***SCHISTOSOMA MANSONI* PRX PROTEINS: ARE THEY A NEW DRUG TARGET?**

Ahmed A. Sayed, David L. Williams

Illinois State University, Normal, IL, United States

2 p.m.**DENGUE-3 IN LIMA, PERU, 2005**

Vidal Felices¹, Cristhopher Cruz¹, Victor Laguna -Torres¹, Luis Beingolea², Victor Suarez³, Luis Suarez⁴, G. Jave⁵, Gloria Chauca¹, Tadeusz Kochel⁶, James Olson⁶

¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²Oficina General de Epidemiología, Lima, Peru, ³Instituto Nacional de Salud, Ministerio de Salud, Peru, ⁴Oficina General de Epidemiología, Ministerio de Salud, Peru, ⁵Centro de Salud de Comas, Ministerio de Salud, Peru, ⁶U.S. Naval Medical Research Center Detachment, APO AA, AE, United States

Young Investigator Award Session B

Monroe West

Sunday, December 11

11 a.m. - 3:30 p.m.

CHAIR

Brenda T. Beerntsen

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

Nicholas Komar

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

11:00 a.m.**GENERATION OF ARTIFICIAL *WOLBACHIA* INFECTIONS IN *Aedes* MOSQUITO AND MANIPULATION OF POPULATION WITH CYTOPLASMIC INCOMPATIBILITY**

Zhiyong Xi, Jeffry L. Dean, Cynthia Khoo, Stephen L. Dobson

University of Kentucky, Lexington, KY, United States

11:15 a.m.**AGE-DEPENDENT DENGUE TRANSMISSION AND IMPLICATIONS FOR CONTROL PROGRAMS**

Sharon L. Minnick¹, Amy C. Morrison¹, Tadeusz J. Kochel², James G. Olson², Thomas W. Scott¹

¹University of California at Davis, Davis, CA, United States, ²US Naval Medical Research Center, Lima, Peru

11:30 a.m.**ARBOVIRAL CAUSES OF FEVER IN ECUADOR, BOLIVIA AND PERU, 2000 - 2005**

Carolina Guevara¹, Karla Block¹, Claudio Rocha¹, Zonia Rios¹, Alfredo Huaman¹, Roger Castillo¹, Vidal Felices¹, Cristhopher Cruz¹, Kevin Russel², Tadeusz Kochel², Patrick Blair², Cesar Naquira³, Eduardo Gotuzzo⁴, Luis Suarez⁵, Jorge Vargas⁶, Steve Manock⁷, Narcisa Brito⁷, Cesar Madrid⁸, M. Merizalde⁹, Tadeusz Kochel²

¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²U.S. Naval Medical Research Center Detachment, APO AA, AE, United States, ³Instituto Nacional de Salud, Ministerio de Salud, Peru, ⁴Universidad Peruana Cayetano Heredia, Universidad Peruana Cayetano Heredia, Peru, ⁵Oficina General de Epidemiología, Ministerio de Salud, Peru, ⁶Centro Nacional de Enfermedades Tropicales, Cenetrop Santa Cruz, Bolivia, ⁷Hospital Vozandes, Shell, Ecuador, ⁸Hospital Naval, Guayaquil, Ecuador, ⁹Hospital Militar, Puyo, Ecuador

11:45 a.m.**HUMAN ILLNESS CAUSED BY CARAPARU AND MURUTUCU (GROUP C) VIRUSES, PERU, 2003 AND 2004**

Alfredo Huaman¹, Roxana Cáceda¹, Juan Perez¹, Roger Castillo¹, Zonia Rios¹, Carolina Guevara¹, Claudio Rocha¹, Karla Block¹, Claudia Zavaleta², Patrick Blair³, Carlos Vidal⁴, Luis Suarez⁵, Cesar Naquira⁶, Eduardo Gotuzzo⁷, James Olson³

¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²Universidad Peruana Cayetano Heredia, Universidad Peruana Cayetano Heredia, Peru, ³U.S. Naval Medical Research Center Detachment, APO AA, AE, United States, ⁴Dirección de Salud, Iquitos, Peru, ⁵Oficina General de Epidemiología, Ministerio de Salud, Peru, ⁶Instituto Nacional de Salud, Ministerio de Salud, Peru, ⁷Universidad Peruana Cayetano Heredia, Lima, Peru

Noon**ISOLATION OF ILHEUS VIRUS FROM A FEBRILE HUMAN IN ECUADOR**

Cristhopher Cruz¹, Vidal Felices¹, Roxana Cáceda¹, Barbara Johnson², Alfredo Huaman¹, Roger Castillo¹, M. Merizalde³, Steve Manock⁴, Cesar Madrid⁵, Carolina Guevara¹, Tadeusz Kochel⁶, James Olson⁶

¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²Centers for Disease Control and Prevention, Fort Collins, CO, United States, ³Hospital Militar, Puyo, Ecuador, ⁴Hospital Vozandes, Shell, Ecuador, ⁵Hospital Naval, Guayaquil, Ecuador, ⁶U.S. Naval Medical Research Center Detachment, APO AA, AE, United States

12:15 p.m.**INCIDENCE OF ARBOVIRAL ILLNESSES IN SCHOOL CHILDREN, IQUITOS, PERU, 2000-2004**

Cecilia Rivera¹, Carolina Guevara¹, Alfredo Huaman¹, Roger Castillo¹, Roxana Cáceda¹, Juan Perez¹, Claudio Rocha¹, Karla Block¹, Tadeusz Kochel², Patrick Blair², James Olson², Amy Morrison², Tomas Scott³

¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²U.S. Naval Medical Research Center Detachment, APO AA, AE, United States, ³University of Davis, Davis, CA, United States

12:30 p.m.**CLINICAL EVALUATION AND VIROLOGIC DIAGNOSIS OF VENEZUELAN EQUINE ENCEPHALITIS IN PERU, JANUARY 2000-FEBRUARY 2005**

Zonia Rios¹, Roger Castillo¹, Silvia Montano¹, Alfredo Huaman¹, Roxana Cáceda¹, Carolina Guevara¹, Claudio Rocha¹, Karla Block¹, Patrick Blair², Tadeusz Kochel², Eduardo Gotuzzo³, Carlos Vidal⁴, Luis Suarez⁵, Cesar Naquira⁶, James Olson²

¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²U.S. Naval Medical Research Center Detachment, APO AA, AE, United States, ³Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴Dirección de Salud, Iquitos, Peru, ⁵Oficina General de Epidemiología, Ministerio de Salud, Peru, ⁶Instituto Nacional de Salud, Ministerio de Salud, Lima, Peru

12:45 p.m.**A PREDICTIVE MODEL FOR IDENTIFYING PERSISTENT POPULATIONS OF *PEROMYSCUS MANICULATUS* INFECTED WITH SIN NOMBRE VIRUS**

Christine L. Hice¹, Timothy M. Shields², Greg E. Glass², James N. Mills³, Terry L. Yates¹

¹University of New Mexico, Albuquerque, NM, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

1:00 p.m.**SEROLOGIC EVIDENCE OF EMCV IN RODENTS IN PERU 2004 - 2005**

Roger Castillo¹, Christian Albuja¹, Alfredo Huaman¹, Carolina Guevara¹, Victor Pacheco², Ursula Fajardo³, James Olson¹

¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²Museum of Natural History, University Nac. Mayor de San Marcos, Lima, Peru, ³Museum of Natural History University Nac. Mayor de San Marcos, Lima, Peru

1:15 p.m.**DIVERSITY OF *BORRELIA BURGDORFERI* OSPC IN PERSISTENTLY INFECTED *PEROMYSCUS LEUCOPUS***

Katherine Swanson, Douglas Norris

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

1:30 p.m.

TEMPOSPATIAL DISTRIBUTION OF CLUSTERING DENGUE CASES IN KAOHSIUNG, 2001-2003

Chih-Chun Kan¹, Neal H. Lin², Chuin-Shee Shang², Tsung-Shu Wu², Tzai-Hung Wen³, Min-Hui Wu², Konan Peck⁴, Pei-Fen Lee⁵, I-Chuin Fan⁶, Wu-Hsiung Tsai⁷, Hui-Chu Chen⁷, Pei-Yun Shu⁷, Shu-Hui Tseng⁷, Chwan-Chuen King²

¹Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan Republic of China, ²Institute of Epidemiology, College of Public Health, National Taiwan University (NTU), Taipei, Taiwan Republic of China, ³Department of Bioenvironmental Systems Engineering, NTU, Taipei, Taiwan Republic of China, ⁴Institute of Biomedical Science, Academia Sinica, Taipei, Taiwan Republic of China, ⁵Institute of Ecology and Evolutionary Biology, NTU, Taipei, Taiwan Republic of China, ⁶Institute of History and Philology and Geographic Information System Center, Academia Sinica, Taipei, Taiwan Republic of China, ⁷Center for Disease Control of Kaohsiung City Health Department, Kaohsiung, Taiwan Republic of China

1:45 p.m.

DEVELOPMENT AND CHARACTERIZATION OF A DOUBLE SUBGENOMIC CHIKUNGUNYA VIRUS INFECTIOUS CLONE TO EXPRESS HETEROLOGOUS GENES IN Aedes Aegypti MOSQUITOES

Dana L. Vanlandingham¹, Konstantin Tsetarkin², Chao Hong², Kimberly Klingler², Kate L. McElroy², Stephen Higgs², Michael J. Lehane¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²University of Texas Medical Branch, Galveston, TX, United States

2:00 p.m.

DENGUE KNOWLEDGE AND PRACTICES AND THEIR IMPACT ON Aedes Aegypti POPULATIONS IN KAMPHAENG PHET, THAILAND

Constantianus J. Koenraadt¹, Wieteke Tuiten², Ratana Sithiprasasna², Udom Kijchalao², James W. Jones², Thomas W. Scott¹

¹University of California, Davis, CA, United States, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

Young Investigator Award Session C

Monroe East

Sunday, December 11

11 a.m. - 3:30 p.m.

CHAIR

Michael Ferdig

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

Julian Rayner

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

11:00 a.m.

IS THERE AN ADVANTAGE TO MAKING YOUR HOST SICK? STUDIES ON AVIAN DEFENSIVE BEHAVIOR AND MOSQUITO BLOOD FEEDING SUCCESS

Jonathan M. Darbro, André A. Dhondt, Laura C. Harrington
Cornell University, Ithaca, NY, United States

11:15 a.m.

PLASMODIUM FALCIPARUM DIVERSITY IN CHILDREN IN ARUA, UGANDA: EFFECT OF MULTIPLE INFECTIONS ON COMBINATION ANTIMALARIAL TREATMENT RESPONSE

Daniel J. Kyabayinze¹, Ambrose O. Talisuna², Fred Kironde³, Samuel Nsohya¹, Moses Kiggundu¹, Moses Kanya¹, Sarah Steadke⁴, Phillip J. Rosenthal⁴, Grant Dorsey⁴

¹Makerere University Medical School, Kampala, Uganda, ²Ministry of Health, Uganda, Kampala, Uganda, ³Makerere University Medical School, Dept of Biochemistry, Kampala, Uganda, ⁴University of California, San Francisco, San Francisco, CA, United States

11:30 a.m.

ALTERATION IN HOST CELL TROPISM LIMITS THE EFFICACY OF IMMUNIZATION WITH A SURFACE PROTEIN OF MALARIA MEROZOITES

Qifang Shi, Amy Cernetich, Thomas M. Daly, Gina Galvan, Akhil B. Vaidya, Lawrence W. Bergman, James M. Burns, Jr.
Drexel University, College of Medicine, Philadelphia, PA, United States

11:45 a.m.

MALARIA IN PREGNANCY IN A HIGH RISK PROVINCE OF SOUTH AFRICA

Joyce M. Tsoka, Immo Kleinschmidt, Brian L. Sharp
Medical Research Council, Durban, South Africa

Noon

THE INTEGRIN CD103 PLAYS AN IMPORTANT ROLE IN PROTECTION WITH THE MALARIA IRRADIATED SPOOROZOITE VACCINE

Uzma Alam, Gregg A. Hadley, John B. Sacci, Abdu F. Azad
University of Maryland, Baltimore, Baltimore, MD, United States

12:15 p.m.

ASSOCIATION OF SINGLE NUCLEOTIDE POLYMORPHISMS IN THE DIHYDROFOLATE REDUCTASE AND DIHYDROPTEROATE SYNTHASE GENES WITH SULFADOXINE-PYRIMETHAMINE (SP) RESISTANCE IN PLASMODIUM FALCIPARUM IN THE AMAZON REGION OF PERU

Carola J. Salas¹, Alan J. Magill², Trenton K. Ruebush³, Kevin C. Kain⁴, Kathleen J. Zhong⁴, Carmen M. Lucas¹, Christian T. Bautista⁵, David J. Bacon¹

¹US Naval Medical Research Center Detachment, Lima, Peru, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³USAID Bureau for Global Health, Washington DC, United States, ⁴University of Toronto, Toronto, ON, Canada, ⁵US Military HIV Research Program and the Henry M. Jackson Foundation, Rockville, MD, United States

12:30 p.m.**INDUCTION OF MAPK SIGNALING AND GENE EXPRESSION CHANGES IN SYNCYTIOTROPHOBLAST FOLLOWING BINDING OF CYTOADHERENT PLASMODIUM FALCIPARUM**

Naomi W. Lucchi, Rebecca Koopman, David S. Peterson, Julie M. Moore
University of Georgia, Athens, GA, United States

12:45 p.m.**IDENTIFICATION OF CRYPTOSPORIDIUM MURIS IN A TEXAS CANINE POPULATION**

Philip J. Lupo¹, Rebecca C. Langer-Curry², Mary A. Robinson³, Cynthia C. Chappell¹
¹*University of Texas School of Public Health, Houston, TX, United States*, ²*University of Texas Medical Branch, Galveston, TX, United States*, ³*University of Texas Health Science Center, Houston, TX, United States*

1:00 p.m.**AN APPARENT CONTRADICTION: PLASMODIUM FALCIPARUM MAY BE AUXOTROPHIC FOR LIPOATE DESPITE THE PRESENCE OF A LIPOATE BIOSYNTHESIS PATHWAY**

Marina Allary¹, Jeff Z. Lu¹, Liqun Zhu¹, Squire J. Booker², Sean T. Prigge¹
¹*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*, ²*Pennsylvania State University, University Park, PA, United States*

1:15 p.m.**INVESTIGATING UNIQUE FEATURES OF THE V-ATPASE OF MALARIA PARASITES**

Julia K. Bolt-Ulschmid, Kamal D. Laroia, Joanne M. Morrissey, Lawrence W. Bergman, Akhil B. Vaidya
Drexel University College of Medicine, Philadelphia, PA, United States

1:30 p.m.**POPULATION GENETIC STRUCTURE OF THE MALARIA VECTOR ANOPHELES DARLINGI USING THE NUCLEAR WHITE GENE: EVIDENCE FOR INCIPIENT SPECIATION OR CRYPTIC SPECIES?**

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

1:45 p.m.**CHARACTERIZATION OF MOSQUITO OSKAR ORTHOLOGOUS GENES FOR THE DEVELOPMENT OF A TRANSPOSABLE ELEMENT-BASED GENE DRIVE MECHANISM**

Jennifer Juhn, Anthony A. James
University of California, Irvine, CA, United States

Young Investigator Award Session D*Military*

Sunday, December 11

11 a.m. – 3:30 p.m.

CHAIR

Christopher L. King*Case Western Reserve University, Cleveland, OH, United States***Peter Zimmerman***Case Western Reserve University, Cleveland, OH, United States***11:00 a.m.****FROM TRANSCRIPTOME TO IMMUNOME: IDENTIFICATION OF DTH INDUCING PROTEINS FROM A PHLEBOTOMUS ARIASI SALIVARY GLAND CDNA LIBRARY**

Fabiano Oliveira, Shaden Kamhawi, Amy E. Seitz, Van My Pham, Laurent Fischer, Jerrold Ward, Jesus G. Valenzuela
National Institutes of Health, Rockville, MD, United States

11:15 a.m.**IDENTIFICATION OF ABC TRANSPORTERS FROM SARCOPTES SCABIEI AND THEIR POTENTIAL ASSOCIATION WITH EMERGING IVERMECTIN RESISTANCE**

Kate E. Mounsey¹, Deborah C. Holt¹, James McCarthy², Bart J. Currie¹, Shelley F. Walton¹
¹*Menzies School of Health Research, Casuarina, NT, Australia*, ²*Queensland Institute of Medical Research, Brisbane, QLD, Australia*

11:30 a.m.**EFFECTIVENESS OF INSECTICIDE TREATED NETS IN REDUCING ALL-CAUSE MORTALITY AMONG CHILDREN IN SUB-SAHARAN AFRICA: A QUANTITATIVE REVIEW OF FOUR LARGE CLINICAL TRIALS**

Katherine B. Goodwin, Lone Simonsen
National Institutes of Health, Bethesda, MD, United States

11:45 a.m.**PLACENTAL HISTOPATHOLOGY ASSOCIATED WITH SUBCLINICAL MALARIA AND ITS IMPACT ON THE FETAL ENVIRONMENT**

Falgunee K. Parekh¹, Billie B. Davison², Jean N. Hernandez-Perez³, Donald J. Krogstad¹, OraLee H. Branch⁴
¹*Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States*, ²*Tulane National Primate Research Center, Covington, LA, United States*, ³*Universidad Peruano Cayetano Heredia Instituto de Medicina, Lima, Peru*, ⁴*University of Alabama at Birmingham, Birmingham, AL, United States*

Noon

PLASMODIUM FALCIPARUM MALARIA IN AFRICAN CHILDREN: THE ROLE OF THE SIMPLIFIED MULTI-ORGAN-DYSFUNCTION SCORE AS PROGNOSTIC DISCRIMINATOR

Raimund Helbok¹, Saadou Issifou², Pierre Blaisse Matsiegui², Peter Lackner¹, Wolfgang Dent¹, Erich Schmutzhard¹, Peter G. Kremsner³

¹Department of Neurology, University of Innsbruck, Austria, ²Albert Schweitzer Hospital, Lambaréné, Gabon, ³Department of Tropical Medicine, University of Tübingen, Germany

12:15 p.m.

CYTOKINE-ASSOCIATED MORBIDITY AMONG PLASMODIUM FALCIPARUM INFECTED CHILDREN UNDER THE AGE OF SIX

Virginia S. Baker¹, Godwin Imade², Norman Molta³, Sarah Belcher¹, Pallavi Tawde¹, Sunday Pam², Michael Obadofin², Solomon Sagay², Daniel Egah², Daniel Iya², Bangmboye Afolabi², Murray Baker⁴, Karen Ford⁴, Robert Ford⁴, Kenneth Roux¹, Thomas Keller¹

¹Florida State University, Tallahassee, FL, United States, ²Jos University Teaching Hospital and Medical School, Jos, Nigeria, ³Jos University, Jos, Nigeria, ⁴World Health Mission, Pittsburgh, PA, United States

12:30 p.m.

GENETIC DISSECTION OF DIFFERENTIAL GROWTH RATES IN PLASMODIUM FALCIPARUM IN CHLOROQUINE RESISTANT AND SENSITIVE PROGENY CLONES

Heather B. Reilly, Hongjian Wang, Kyle Wong, Robert F. Easley, Michael T. Ferdig

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

12:45 p.m.

A CLINICAL TRIAL TO COMPARE THE EFFICACY OF INTRARECTAL VERSUS INTRAVENOUS QUININE IN THE TREATMENT OF CHILDHOOD CEREBRAL MALARIA IN UGANDA

Jane W. Achan, Justus Byarugaba, James K. Tumwine
Makerere University, Kampala, Uganda

1:00 p.m.

LONGITUDINAL STUDY OF THE COMPLEXITY OF PLASMODIUM FALCIPARUM INFECTIONS IN CHILDREN IN WESTERN KENYA

Ardath W. Grills¹, Behnhards Ogutu², Amos K'ungu², Anjali Yadava³, Mala Ghai³, Jose Stoute³, Mark Withers³, Christian Ockenhouse³, John Waitumbi²

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States

1:15 p.m.

TEMPORAL AND SPATIAL PROFILE OF ACTIVATED CASPASE-3 IN EXPERIMENTAL CEREBRAL MALARIA

Peter Lackner¹, Christoph Burger¹, Ronny Beer¹, Kristian Pfaller¹, Volker Heussler², Raimund Helbok¹, Egbert Tannich², Erich Schmutzhard¹

¹Innsbruck Medical University, Innsbruck, Austria, ²Bernhard-Nocht-Institute for Tropical Medicine, Hamburg, Germany

1:30 p.m.

MULTIPLICITY OF MSP-1 19 VARIANTS AMONG CAMEROONIAN WOMEN DURING PREGNANCY

Genevieve G.A Fouda¹, Rose G.F. Leke², Jianbing Mu³, Xiazhuan Su³, Carole Long³, Ababacar Diouf¹, Grace Sama², Armead Johnson¹, Diane W. Taylor¹

¹Georgetown University, Washington, DC, United States, ²Biotechnology Center, University of Yaounde I, Yaounde, Cameroon, ³National Institutes of Health, Bethesda, MD, United States

1:45 p.m.

THE EFFECT OF MOSQUITO SALIVA ON PLASMODIUM YOELII INFECTION

Michael J. Donovan, Deborah A. Scrafford, Mary A. McDowell
University of Notre Dame, Notre Dame, IN, United States

ACAV SIRACA Subcommittee Meeting

Dupont

Sunday, December 11 Noon – 2 p.m.

ACAV SALS Subcommittee Meeting

Dupont

Sunday, December 11 2:15 – 3:15 p.m.

ACME Council Meeting

Chevy Chase

Sunday, December 11 3:30 – 5 p.m.

ACAV Council Meeting

Dupont

Sunday, December 11 3:30 – 5:30 p.m.

Young Investigator Award Committee Meeting

Monroe East

Sunday, December 11 3:30 – 5 p.m.

Plenary Session I and Society Awards

International Ballroom Center

Sunday, December 11

5:30 – 7:30 p.m.

CHAIR

Thomas P. Monath

Acambis Inc., Cambridge, MA, United States

Edward T. Ryan

Massachusetts General Hospital, Boston, MA, United States

5:30 p.m.

INTERNATIONAL HEALTH AND TROPICAL INFECTIOUS DISEASES RESEARCH: AN NIAID PERSPECTIVE

Anthony Fauci

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

6:15 p.m.

AWARDS CEREMONY

Hosted by Thomas P. Monath

Acambis Inc., Cambridge, MA, United States

Recognition Award in Global Health

Anthony Fauci

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

Presented by Thomas P. Monath

Acambis Inc. Cambridge, MA, United States

Travel Awards

Presented by 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

Presented by Shirley Luckhart

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

Young Investigator Awards

Presented by Peter Zimmerman

Case Western Reserve University, Cleveland, OH, United States

Gorgas Memorial Institute Research Award

Presented by Rebeca Rico-Hesse

Southwest Foundation for Biomedical Research, San Antonio, TX, United States

Burroughs Wellcome Fund – ASTMH Postdoctoral Fellowship in Tropical Infectious Diseases

Presented by Terrie Taylor

Michigan State University, East Lansing, MI, United States

Pfizer Centennial Travel Award in Basic Science Tropical Disease Research

Presented by Joseph M. Vinetz

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

Benjamin H. Kean Traveling Fellowship in Tropical Medicine

Presented by Christopher V. Plowe

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

Communications Award

Presented by Claire Panosian

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

Honorary Members

Robert Killick-Kendrick

Imperial College, Berks, United Kingdom

Presented by John David

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

Nicholas White

Wellcome Trust South East Asian Research Units, Bangkok, Thailand

Presented by Stephen L. Hoffman

Sanaria Inc., Rockville, MD, United States

Harry Hoogstraal Medal

For outstanding lifelong service to medical entomology

Robert Washino

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

Introduced by Stephen Higgs

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

Dalrymple/Young Award

Presented to a mid-career investigator who has made an outstanding contribution to arbovirology

Presented by Charles Calisher

Colorado State University, Fort Collins, CO, United States

Donald Mackay Medal

For outstanding work in tropical health, especially relating to improvements in the health of rural or urban workers in the tropics.

David L. Heymann

World Health Organization, Geneva, Switzerland

Introduced by Thomas P. Monath

Acambis Inc., Cambridge, MA, United States

Walter Reed Medal

For distinguished accomplishment in the field of tropical medicine.

Karl M. Johnson

Placitas, New Mexico, United States

Introduced by Thomas P. Monath

Acambis Inc., Cambridge, MA, United States

Bailey K. Ashford Medal

For distinguished work in tropical medicine.

J. Kevin Baird

NAMRU-2, Jakarta, Indonesia

Introduced by Stephen L. Hoffman

Sanaria Inc., Rockville, MD, United States

Frank O. Richards, Jr.

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

Introduced by Donald R. Hopkins

The Carter Center, Atlanta, GA, United States

Mary E. Wilson

University of Iowa, Iowa City, IA, United States

Introduced by William A. Petri

University of Virginia Health System, Charlottesville, VA, United States

Opening Reception

Exhibit Hall

Sunday, December 11

7:30 - 9:30 p.m.

Monday, December 12

Registration

Concourse Foyer

Monday, December 12

7 a.m. - 5 p.m.

Program Certification Committee Meeting

Edison

Monday, December 12

7 - 8 a.m.

Clinical Group Council Meeting

Chevy Chase

Monday, December 12

7 - 8 a.m.

Meet the Professors 1

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

Supported with funding from GlaxoSmithKline

Military

Monday, December 12

7 - 8 a.m.

Designed for the next generation of tropical medicine leaders, a panel of professors will share information on their background, weaving their life experience in tropical medicine from undergraduate days through their current activities, incorporating their favorite science along the way. A continental breakfast will be served.

SESSION ORGANIZER

Alan Spira

The Travel Medicine Center, Beverly Hills, CA, United States

PANELISTS

Martin S. Wolfe

Travelers' Medical Service, Washington, DC, United States

John Cross

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

Symposium 2

Malaria Sexual Biology

Hemisphere

Monday, December 12

8 - 9:45 a.m.

Sexual differentiation and development of erythrocytic asexual stages represents a central stage in the malaria parasite's transmission cycle. Mechanisms involved in this key stage of parasite's life cycle are at best poorly understood. A few limited studies have implicated potential role for a few genes and it is expected that further functional genomic studies will reveal novel candidates. Identification of such genes and their products is likely to not only provide mechanistic understanding of the sexual development cycle but also provide novel targets for interrupting malaria transmission.

CHAIR

Nirbhay Kumar

Johns Hopkins University, Baltimore, MD, United States

8 a.m.

THE ASEQUAL-SEXUAL STAGE TRANSITION IN *P. FALCIPARUM*

Kim Williamson

Loyola University of Chicago, Chicago, IL, United States

8:25 a.m.

A TRANSLATIONAL REGULATOR DURING GAMETOCYTOGENESIS OF THE MALARIA PARASITE

Liwang Cui

Pennsylvania State University, University Park, PA, United States

8:55 a.m.**THE SEXUAL STAGE-EXPRESSED APICOMPLEXAN LCCL DOMAIN-CONTAINING PROTEINS**

Thomas J. Templeton

*Weill Graduate School of Medical Sciences of Cornell University, New York, NY, United States***9:20 a.m.****LOOKING FOR FUNCTION(S) OF PFG27 PROTEIN CRITICAL FOR *P. FALCIPARUM* SEXUAL DEVELOPMENT**

Eiji Nagayasu

*Johns Hopkins University, Baltimore, MD, United States***Symposium 3****Non-Infectious Causes of Morbidity and Mortality in the Tropics***Military*

Monday, December 12

8 – 9:45 a.m.

Often overlooked are non-infectious causes of illness and death that affect local populations and visitors to the tropics. This symposium will examine the socioeconomic impact, public health implications, disease/event processes and management of these problems.

CHAIR

John D. Cahill*St. Luke's/Roosevelt Hospital Center/Columbia University, New York, NY, United States***8 a.m.****AN OVERVIEW OF NON-INFECTIOUS CAUSES OF MORBIDITY AND MORTALITY IN THE TROPICS**

John D. Cahill

*St. Luke's/Roosevelt Hospital Center, New York, NY, United States***8:15 a.m.****ENVENOMATIONS IN THE TROPICS**

Walter Simmons

*US Army, Almagorda, NM, United States***8:45 a.m.****TOXICOLOGY IN THE TROPICS**

Hei Hahn

*St. Luke's/Roosevelt Hospital Center/Columbia University, New York, NY, United States***9:15 a.m.****LANDMINES**

Lawrence Proano

*International Fellowship Director, Rhode Island Hospital/Brown University, Providence, RI, United States***Scientific Session 4****Arthropods/Entomology***Monroe East*

Monday, December 12

8 – 9:45 a.m.

CHAIR

Stephen Higgs*University of Texas Medical Branch, Galveston, TX, United States***William C. Black***Colorado State University, Fort Collins, CO, United States***8 a.m.****1****NONVIREMIC TRANSMISSION OF WEST NILE VIRUS**Stephen Higgs¹, Bradley S. Schneider¹, Dana L. Vanlandingham¹, Kimberly A. Klingler¹, Ernest A. Gould²¹*University of Texas Medical Branch, Galveston, TX, United States,*²*Centre for Ecology and Hydrology, Oxford, United Kingdom***8:15 a.m.****2****QUANTITATIVE ASSESSMENT OF THE AMOUNT OF WEST NILE VIRUS INOCULATED BY MOSQUITOES INTO LIVE HOSTS****Linda M. Styer**, Laura D. Kramer, Kristen A. Bernard*Wadsworth Center, New York State Department of Health, Albany, NY, United States***8:30 a.m.****3****RNA INTERFERENCE AS AN ANTAGONIST OF SINDBIS VIRUS INFECTION AND DISSEMINATION IN *Aedes aegypti*****Kimberly M. Keene**, Brian D. Foy, Ken E. Olson, Carol D. Blair*Colorado State University, Fort Collins, CO, United States***8:45 a.m.****4****SPATIAL DISTRIBUTION OF ALPHAVIRUS GENETIC DETERMINANTS OF MIDGUT INFECTION IN MOSQUITOES****Dennis Pierro**, Ken Olson*Colorado State University, Fort Collins, CO, United States*

9 a.m.

5

DENGUE TYPE 2 VIRUS REPLICATION AND DISSEMINATION IN *Aedes Aegypti* FROM TEXAS

Justin R. Anderson, Rebeca Rico-Hesse
Southwest Foundation for Biomedical Research, San Antonio, TX, United States

9:15 a.m.

6

PEROXIDASES MEDIATE REFRACTORINESS TO PLASMODIUM INFECTION IN *A. GAMBIAE*

Carolina Barillas-Mury, Sanjeev Kumar
National Institutes of Health, Rockville, MD, United States

9:30 a.m.

7

QUANTITATIVE TRAIT LOCI CONTROLLING REFRACTORINESS AGAINST *PLASMODIUM FALCIPARUM* IN ANOPHELES GAMBIAE FROM A MALARIA ENDEMIC REGION IN WESTERN KENYA

David M. Menge¹, Tom Guda², Guiyun Yan¹
¹*SUNY at Buffalo, Buffalo, NY, United States*, ²*International Center for Insect Physiology and Ecology, Mbita, Kenya*

Symposium 5

Cysticercosis Elimination in Peru

Monroe West
 Monday, December 12 8 - 9:45 a.m.

A Bill and Melinda Gates-funded Cysticercosis Elimination Program is now working at full gear in Northern Peru, with over 40,000 people censused, mapped and GPS-referenced, and six different interventions being evaluated. This symposium will present the basis and initial results of this important program.

CHAIR

Armando E. Gonzalez
School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru

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

8 a.m.

OVERVIEW OF THE PROGRAM

Robert H. Gilman
Department of International Health, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

8:15 a.m.

FIELD APPLICABLE ASSAYS AND ITS USE IN CONTROL OF TAENIA SOLIUM TAENIASIS/CYSTICERCOSIS

Victor C. Tsang
Centers for Disease Control, Atlanta, GA, United States

8:45 a.m.

EDUCATIONAL INTERVENTIONS IN TAENIASIS/CYSTICERCOSIS

Elli Leontsini
Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

9:15 a.m.

INITIAL RESULTS OF THE PERU ELIMINATION PROGRAM

Guillermo Gonzalvez
Universidad Peruana Cayetano Heredia, Lima, Peru

Scientific Session 6

Flavivirus — Dengue I

Lincoln East
 Monday, December 12 8 - 9:45 a.m.

CHAIR

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

Charmagne G. Beckett

Viral Diseases Department, Naval Medical Research Center, Silver Spring, MD, United States

8 a.m.

8

PEDIATRIC COHORT STUDY OF DENGUE TRANSMISSION IN NICARAGUA

Eva Harris¹, Samantha N. Hammond¹, Guillermina Kuan², Crisanta Rocha³, William Aviles², Andrea Nuñez⁴, Stephen Waterman⁵, Alcides Gonzalez⁴, Juan José Amador⁶, Angel Balmaseda⁴

¹*Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States*, ²*Centro de Salud Socrates Flores Vivas, Managua, Nicaragua*, ³*Hospital Infantil Manuel Jesús de Rivera, Managua, Nicaragua*, ⁴*Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua*, ⁵*Division of Global Migration, National Center for Infectious Diseases, Centers for Disease Control and Prevention, San Diego, CA, United States*, ⁶*Dirección de Salud Ambiental y Epidemiología, Ministerio de Salud, Managua, Nicaragua*

Monday, December 12

8:15 a.m.

9

A FOUR YEAR PROSPECTIVE STUDY OF DENGUE FEVER AND DENGUE HEMORRHAGIC FEVER AMONG ADULTS LIVING IN INDONESIA

Charmagne G. Beckett¹, Herman Kosasih², Ratna I. Tan², Susana Widjaja², Chairin Ma'roef², Erlin Listiyaningsih², Suharyono Wuryadi², Bacht Alisjahbana³, Irani Rudiman³, Djoko Yuwono⁴, Kevin R. Porter¹, Patrick Blair²

¹Naval Medical Research Center, Silver Spring, MD, United States, ²US Naval Medical Research Unit No 2, Jakarta, Indonesia, ³Hasan Sadikin Hospital, Bandung, Indonesia, ⁴National Institute of Health Research and Development, Jakarta, Indonesia

8:30 a.m.

10

SENSITIVITY OF TWO ACTIVE DENGUE SURVEILLANCE PROGRAMS IN IQUITOS, PERU

Claudio Rocha¹, Amy Morrison², Patrick Blair¹, Tadeuz Kochel¹, Jeff Stancil¹, Roger Castillo¹, Angelica Espinoza¹, Moises Sihuinchá³, Tom Scott², James Olson¹

¹Naval Medical Research Center, Detachment, APO, AE, United States, ²University of California, Davis, CA, United States, ³Dirección de Salud, Laboratorio Referencial, Iquitos, Peru

8:45 a.m.

11

VISUALIZING DENGUE HEMORRHAGIC FEVER IN TIME AND SPACE

Arthur Getis¹, Jared Aldstadt², Karen Campbell³, Thomas W. Scott⁴

¹San Diego State University, San Diego, CA, United States, ²San Diego State University and University of California, Santa Barbara, San Diego, Santa Barbara, CA, United States, ³San Diego State University and Claremont Graduate University, San Diego and Claremont, CA, United States, ⁴University of California, Davis, Davis, CA, United States

9 a.m.

12

CASES OF THREE CONSECUTIVE DENGUE INFECTIONS DURING A LONGITUDINAL COHORT STUDY

Herman Kosasih¹, Ratna Irsiana¹, Chairin Ma'roef¹, Susana Widjaja¹, Erlin Listiyaningsih¹, Bacht Alisjahbana², Irani Rudiman², Agus Suwandono³, Charmagne Beckett⁴, Kevin R. Porter⁴, Patrick J. Blair¹

¹US Naval Medical Research Unit 2, Jakarta, Indonesia, ²Internal Medicine Department Hasan Sadikin Hospital, Bandung, Indonesia, ³National Institute of Health Research and Development Ministry of Health, Jakarta, Indonesia, ⁴Naval Medical Research Center, Silver Spring, MD, United States

9:15 a.m.

13

AGE-DEPENDENT DENGUE TRANSMISSION AND IMPLICATIONS FOR CONTROL PROGRAMS

Sharon L. Minnick¹, Amy C. Morrison¹, Tadeusz J. Kochel², James G. Olson², Thomas W. Scott¹

¹University of California at Davis, Davis, CA, United States, ²US Naval Medical Research Center, Lima, Peru

9:30 a.m.

14

THE STRUCTURE OF GENETIC DIVERSITY AND THE EVOLUTIONARY PROCESSES OF DENGUE VIRUSES CIRCULATING IN THAILAND

Chunlin Zhang¹, Mammen P. Mammen¹, Chonticha Klungthong¹, Piyawan Chinnawirotpisan¹, **Prinyada Rodpradit**¹, Siripen Kalayanaroop², Edward C. Holmes³

¹US Army Medical Component-Armed Forces Research Institute of Medical Sciences (USAMC-AFRIMS), Bangkok, Thailand, ²Queen Sirikit National Institute of Child Health (QSNICH), Bangkok, Thailand, ³Department of Biology, Pennsylvania State University, Pennsylvania, PA, United States

Symposium 7

Malaria and Long-Term Travel

Lincoln West

Monday, December 12

8 – 9:45 a.m.

The symposium will focus on the prevention of malaria in long-term travelers. Speakers will examine the risk of malaria in long-term travelers, the safety of malaria chemoprophylaxis for long-term use, and compare strategies of prevention including continuous chemoprophylaxis, seasonal prophylaxis, and emergency standby treatment. Finally, vivax malaria in travelers will be discussed with attention to terminal prophylaxis in the long-term traveler.

CHAIR

Lin H. Chen

Mount Auburn Hospital, Cambridge, MA, United States

Mary E. Wilson

Harvard University, Cambridge, MA, United States

8 a.m.

RISK OF MALARIA IN LONG-TERM TRAVELERS AND SAFETY OF CHEMOPROPHYLAXIS FOR LONG-TERM TRAVEL

Monica E. Parise

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

8:35 a.m.

FROM NOUGHT TO ONE HUNDRED: MALARIA STAND-BY EMERGENCY MEDICATION, SEASONAL PROPHYLAXIS OR CONTINUOUS PROPHYLAXIS

Patricia Schlägenhauf
University of Zurich, Zurich, Switzerland

9:10 a.m.

VIVAX MALARIA AND TERMINAL PROPHYLAXIS

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

Scientific Session 8

Malaria – Epidemiology I

Jefferson East

Monday, December 12

8 – 9:45 a.m.

CHAIR

G. Dennis Shanks

Gainesville, GA, United States

CHAIR

Blaise Genton

Swiss Tropical Institute, Basel, Switzerland

8 a.m.

15

MALARIA IN THE ANDAMAN ISLANDS (1875-1939): HOW DO HISTORICAL MALARIA EPIDEMICS RELATE TO THE TSUNAMI-AFFECTED AREAS OF ASIA?

G. Dennis Shanks, Simon I. Hay, David J. Bradley
University of Oxford, Oxford, United Kingdom

8:15 a.m.

16

OPEN LABEL, MULTI-CENTER, NON-COMPARATIVE EFFICACY, SAFETY AND TOLERABILITY STUDY OF ARTEMETHER/LUMEFANTRINE IN THE TREATMENT OF ACUTE, UNCOMPLICATED P. FALCIPARUM MALARIA IN NON-IMMUNE TRAVELERS

Blaise Genton¹, H. D. Nothdurft², F. Gay³, J. Soto⁴, B. Gempferli⁵, K. Andriano⁵, C. Hatz⁶

¹Swiss Tropical Institute, Basel, Switzerland, ²Abt. fuer Infektions und Tropenmedizin der Universitaet, Muenchen, Germany, ³Groupe Hospitalier Pitié-Salpêtrière Département des maladies infectieuses, parasitaires et tropicales, Paris, France, ⁴FADER / Cibic, Bogota, Colombia, ⁵Novartis Pharmaceuticals, East Hanover, NJ, United States, ⁶Swiss Tropical Institute, Basel, Switzerland

8:30 a.m.

17

DOES DAILY COTRIMOXAZOLE PROMOTE THE SELECTION OF PLASMODIUM FALCIPARUM DYHYDROFOLATE REDUCTASE (DHFR) AND DYHYDROPTEROATE SYNTHASE (DHPS) MUTATIONS?

Mary J. Hamel¹, Peter B. Bloland², Ananias Escalante³, Carolyn Greene⁴, Tom Chiller⁴, Ya Ping Shi⁴, Peter Ouma¹, Kephass Otieno¹, Amanda Poe⁴, Zhiyong Zhou⁴, Ira Goldman⁴, John Vulule⁵, John Williamson⁴, Venkatachalam Udhayakumar⁴, Laurence Slutsker¹

¹Centers for Disease Control and Prevention/KEMRI Research Station, Kisumu, Kenya, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Arizona State University, Tempe, AZ, United States, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Kenya Medical Research Institute, Kisumu, Kenya

8:45 a.m.

18

PITFALLS IN ASSESSING THE INTERACTION BETWEEN HIV AND MALARIA IN MALARIA-ENDEMIC REGIONS

Miriam Laufer¹, Joep J. van Oosterhout², Philip C. Thesing³, Feston Thumba³, Eduard E. Zijlstra², Terrie E. Taylor⁴, Christopher V. Plowe¹

¹University of Maryland, Baltimore, MD, United States, ²University of Malawi College of Medicine, Blantyre, Malawi, ³Blantyre Malaria Project, Blantyre, Malawi, ⁴Michigan State University, E. Lansing, MI, United States

9 a.m.

19

PLASMODIUM FALCIPARUM AND PLASMODIUM VIVAX POPULATION AND WITHIN-HOST GENETIC DIVERSITY 10 YEARS AFTER THE PERUVIAN AMAZON MALARIA EPIDEMIC

OraLee H. Branch¹, Victor Neyra², Dionicia Gamboa², Jean N. Hernandez², Katherine Soto², Carlos E. Vidal³, Alejandro Llanos-Cuentas²

¹University of Alabama at Birmingham, Birmingham, AL, United States, ²Universidad Peruana Cayetano Heredia, IMT-AVH, Lima, Peru, ³Ministerio de Salud, Direccion de Salud-Loreto, Iquitos, Peru (ACMCIP Abstract)

9:15 a.m.

20

THE DYNAMICS OF P. FALCIPARUM INFECTION AFTER THERAPY

Erika Leemann¹, **Alissa Myrick**¹, Chris Dokomajilar¹, Heidi Hopkins¹, Grant Dorsey¹, Moses Kamya², Philip J. Rosenthal¹
¹UC San Francisco, San Francisco, CA, United States, ²Makerere University, Kampala, Uganda

9:30 a.m.

21

COMPLEXITY OF *PLASMODIUM FALCIPARUM* INFECTIONS AND ANTIMALARIAL DRUG EFFICACY AT SEVEN SITES IN UGANDA

Sulggi A. Lee¹, Adoke Yeka², Samuel L. Nsohya³, Christian Dokomajilar⁴, Philip J. Rosenthal⁴, Ambrose Talisuna⁵, Grant Dorsey⁴

¹University of Southern California, Los Angeles, CA, United States, ²Ministry of Health, Kampala, Uganda, ³Makerere University Medical School, Kampala, Uganda, ⁴University of California, San Francisco, San Francisco, CA, United States, ⁵Ministry of Health, Kampala, Uganda

Symposium 9

Transdisciplinary Approaches to Understanding and Prevention of Emerging Infectious Diseases

Jefferson West

Monday, December 12

8 – 9:45 a.m.

The majority of infectious diseases characterized as emerging and re-emerging are caused by pathogen transmission, spread, or adaptation involving direct interaction of humans and wildlife, indirect interaction involving human encroachment and alteration of ecological systems or both. These interactions and changes are occurring on all scales, local to global, and involve biological processes across an even more daunting and complex range of phenomena — from the level of molecular evolution to global environmental change. Elucidating the mechanisms involved in emergence requires theoretical models, methodological approaches, and techniques that transcend disciplinary boundaries, including new thinking and methods. This symposium will illustrate this with case examples of transdisciplinary EID research programs addressing four different problems: human-wildlife disease linkages, malaria and tropical deforestation, the connection between human and simian retroviruses, and leptospirosis in Hawaiian taro farming communities.

CHAIR

Bruce A. Wilcox

Asia-Pacific Institute of Tropical Medicine and Infectious Diseases, University of Hawaii, Honolulu, HI, United States

8 a.m.

EXPLORING THE LINKS BETWEEN HUMAN AND WILDLIFE PATHOGENS

Peter Daszak

Consortium for Conservation Medicine, New York City, NY, United States

8:25 a.m.

TROPICAL DEFORESTATION, VECTOR ECOLOGY AND THE RE-EMERGENCE OF MALARIA

Jonathan A. Patz

University of Wisconsin, Madison, WI, United States

8:55 a.m.

CROSS-SPECIES TRANSMISSION OF PRIMATE RETROVIRUSES

Nathan Wolfe

Johns Hopkins University, Baltimore, MD, United States

9:20 a.m.

LEPTOSPIROSIS IN HAWAII'S MOUNTAIN TO SEA ECOSYSTEMS

Bruce A. Wilcox

University of Hawaii, Honolulu, HI, United States

Symposium 10

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Translational Research in Parasitology

Supported with funding from the Burroughs Wellcome Fund

Georgetown

Monday, December 12

8 – 9:45 a.m.

The symposium will feature basic research that is leading to applications that improve human health for different parasitic diseases.

CHAIR

John H. Adams

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

8 a.m.

INTRODUCTION

John H. Adams

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

8:05 a.m.

DEVELOPMENT AND TESTING OF THE HUMAN HOOKWORM VACCINE

Peter J. Hotez

George Washington University, Washington, DC, United States

8:40 a.m.

TARGET SPECIFIC AND HIGH THROUGHPUT APPROACHES TO ANTIPARASITIC DRUG DEVELOPMENT

James H. McKerrow

University of California at San Francisco, San Francisco, CA, United States

9:15 a.m.

HOST AND PARASITE CONTRIBUTIONS TO THE PATHOGENESIS OF AMEBIASIS

William A. Petri, Jr.

University of Virginia Health System, Charlottesville, VA, United States

Symposium 11

ACT – Working in Partnership

Supported with funding from Novartis Pharma AG.

International Ballroom East

Monday, December 12

8 – 9:45 a.m.

With malaria continuing to take its toll, especially in Africa, bold decisions must be made and implemented. Defeating malaria will require a well-coordinated comprehensive approach using available interventions and resources, and new tools and innovative strategies. In addition, it is now recognized that effective partnerships are critical in achieving success. The frontline in the combat against malaria remains the use of safe and effective antimalarial drugs. One of the leading fixed artemisinin-based combinations therapies (ACTs) that is now being deployed is artemether-lumefantrine. This drug has been successfully used to treat over ten million cases of acute uncomplicated *P. falciparum* malaria and will be discussed in perspective with other ACTs. The rationale for the development of a paediatric formulation will be reported together with progress on other leading projects managed by the Medicines for Malaria! Venture in review of five years of successful public-private partnerships. MMV, a nonprofit organization, develops new, affordable, antimalarial drugs through partnerships with academic and industry partners — all with a vision in which drugs will help eliminate the devastating effects of malaria. The ultimate health impact is achieved when the tools to control malaria are deployed effectively. Thanks to the involvement of both public and private sector partners, great progress has been made in several countries including South Africa and Zambia. These can be used as models for scaled-up efforts across Africa.

CHAIR

Fred Newton Binka

INDEPTH Network, Ghana

CO-CHAIR

William Watkins

Nuffield Department of Medicine, Oxford University, Oxford, United Kingdom

8 a.m.

INTRODUCTION

Fred Newton Binka

INDEPTH Network, Ghana

William Watkins

Nuffield Department of Medicine, Oxford University, Oxford, United Kingdom

8:05 a.m.

MMV-5 YEARS OF SUCCESSFUL PARTNERSHIP

Christopher Hentschel

Medicines for Malaria Venture, Geneva, Switzerland

8:15 a.m.

OVERVIEW OF ARTEMISININ COMBINATION THERAPIES INCLUDING ARTEMETHER/LUMEFANTRINE META-ANALYSIS

Ric Price

Menzies School of Health Research, Darwin, Australia

Artemether/Lumefantrine Clinical Data Review

8:25 a.m.

ARTEMETHER/LUMEFANTRINE IN NON-IMMUNE TRAVELLERS

Christoph Hatz

Swiss Tropical Institute, Basel, Switzerland

8:35 a.m.

DEVELOPMENT OF THE ARTEMETHER/LUMEFANTRINE PEDIATRIC FORMULATION

David Ubben

Medicines for Malaria Venture, Geneva, Switzerland

8:45 a.m.

RESULTS OF THE ARTEMETHER/LUMEFANTRINE PEDIATRIC STUDY

Michael M. Makanga

European and Developing Countries Clinical Trials Partnership (EDCTP), Cape Town, South Africa

8:55 a.m.

BEST PRACTICE ACCESS MODEL IN AFRICA

Brian Sharp

Malaria Research Programme, Durban, South Africa

9:05 a.m.

PANEL DISCUSSION

9:40 a.m.

CLOSING REMARKS

Fred Newton Binka

INDEPTH Network, Ghana

William Watkins

Nuffield Department of Medicine, Oxford University, Oxford, United Kingdom

Symposium 12

Defining the Role of Vaccine in Reducing Typhoid Disease

Supported with funding from sanofi pasteur

International Ballroom West

Monday, December 12 8 – 9:45 a.m.

This symposium will describe the current situation, providing an update of typhoid epidemiology, burden of disease, and risk factors. Speakers will discuss increasing prevalence of multi-drug resistance and provide examples of clinical experience, contrasting vaccination and treatment options. The symposium will cover cost-effectiveness and implementation issues, including funding and logistics. In closing, the speakers will share future perspectives on typhoid vaccines and treatments, including Vi conjugate vaccines, oral vaccines etc.

CHAIR

John Clemens

International Vaccine Institute, Seoul, Republic of Korea

8 a.m.

INTRODUCTION

John Clemens

International Vaccine Institute, Seoul, Republic of Korea

8:05 a.m.

TYPHOID FEVER: THE CURRENT SITUATION

Zulfiqar Bhutta

The Aga Khan University, Karachi, Pakistan

8:25 a.m.

THE DEVELOPMENT AND CLINICAL INVESTIGATION OF VI CONJUGATE TYPHOID VACCINE

Shousun Szu

National Institutes of Health, Bethesda, MD, United States

Kimi Lin

National Institutes of Health, Bethesda, MD, United States

8:55 a.m.

ORAL VACCINES

Myron M. Levine

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

9:20 a.m.

WHAT DO WE DO IN THE MEANTIME?

John Clemens

International Vaccine Institute, Seoul, Republic of Korea

9:40 a.m.

QUESTION AND ANSWER PERIOD

Exhibit Hall Open

Exhibit Hall

Monday, December 12 9:30 – 10:30 a.m.

Coffee Break

Exhibit Hall

Monday, December 12 9:45 – 10:15 a.m.

Symposium 13

The Biology of Schistosome Eggs: What We Know and What We Still Don't Know

Supported with funding from BD Biosciences Pharmingen

Hemisphere

Monday, December 12 10:15 a.m. – Noon

The pathogenesis of schistosomiasis is almost entirely due to host cell-mediated immune responses against the parasite eggs, suggesting a particular role of the egg stage at the immunological interface of the host/parasite relationship. This symposium will review some recent work on the immunomodulatory properties of *Schistosoma mansoni* eggs and their molecular constituents and will end with a consideration of some aspects of egg biology which may deserve to be scrutinized in more depth.

CHAIR

Mike Doenhoff

School of Biological Sciences, University of Wales, Bangor, United Kingdom

10:15 a.m.

TH2 BIASING OF THE IMMUNE RESPONSE BY SCHISTOSOMA MANSONI EGG-DERIVED ANTIGENS

Dragana Jankovic

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

10:40 a.m.

MECHANISMS THAT CONTROL EGG-DRIVEN INFLAMMATION DURING MURINE SCHISTOSOMIASIS: INSIGHTS PROVIDED BY CELL-SPECIFIC DELETION OF THE INTERLEUKIN 4 RECEPTOR

DeBroski Herbert

University of Cape Town, Cape Town, South Africa

11:10 a.m.

IPSE/ALPHA-1, A SECRETORY GLYCOPROTEIN FROM *S. MANSONI* EGGS, WITH IMMUNOREGULATORY POTENTIAL

Gabriele Schramm

Zellulaere Allergologie, Forschungszentrum Borstel, Borstel, Germany

11:35 a.m.

SCHISTOSOME EGG BIOLOGY: SOME THINGS WE KNOW, AND WHAT WE STILL DON'T KNOW

Mike Doenhoff

School of Biological Sciences, University of Wales, Bangor, United Kingdom

Scientific Session 14

Protozoa

Military

Monday, December 12 10:15 a.m. – 12:15 p.m.

CHAIR

Thaddeus K. Graczyk, Jr.

Johns Hopkins University, Baltimore, MD, United States

Heidi Elmendorf

Georgetown University, Washington, DC, United States

10:15 a.m.

22

SEA OTTERS SERVE AS SENTINELS FOR PROTOZOAL PATHOGENS TRANSMITTED FROM THE TERRESTRIAL HOSTS TO MARINE MAMMALS

Patricia A. Conrad¹, Chris Kreuder¹, Jonna Mazet¹, Haydee Dabritz¹, Michael Grigg², Erick James², Frances Gulland³, Dave Jessup⁴, Melissa Miller⁴

¹University of California, Davis, Davis, CA, United States, ²University of British Columbia, Vancouver, BC, Canada, ³The Marine Mammal Center, Sausalito, CA, United States, ⁴California Department of Fish and Game, Santa Cruz, CA, United States

10:30 a.m.

23

IN VITRO EFFICACY OF NITAZOXANIDE AND OTHER THIAZOLIDES AGAINST INTRACELLULAR NEOSPORA CANINUM TACHYZOITES REVEALS ANTI-PARASITIC ACTIVITY INDEPENDENT OF THE NITRO GROUP

Marco Esposito¹, Norbert Müller¹, Jean Francois Rossignol², **Andrew Hemphill**¹

¹University of Berne, Berne, Switzerland, ²Romark Research Laboratories, Tampa, FL, United States

10:45 a.m.

25

WORLDWIDE POPULATION STRUCTURE OF TOXOPLASMA GONDII

Tovi Lehmann¹, Paula L. Marcet², Douglas H. Graham², Erica R. Dahl², JP Dubey³

¹National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville MD, United States, ²DPD/Centers for Disease Control and Prevention, Chamblee, GA, United States, ³Department of Agriculture, Agricultural Research Service, Animal and Natural Resources Institute, Animal Parasitic Diseases Laboratory, Beltsville, MD, United States

11 a.m.

26

IDENTIFICATION OF CRYPTOSPORIDIUM MURIS IN A TEXAS CANINE POPULATION

Philip J. Lupo¹, Rebecca C. Langer-Curry², Mary A. Robinson³, Cynthia C. Chappell¹

¹The University of Texas School of Public Health, Houston, TX, United States, ²University of Texas Medical Branch, Galveston, TX, United States, ³The University of Texas Health Science Center, Houston, TX, United States

(ACMCIP Abstract)

11:15 a.m.

27

CHARACTERIZATION OF LOW MOLECULAR WEIGHT MUCINS IN CRYPTOSPORIDIUM PARVUM

Roberta O'Connor, Kristen Scarpato, Jonathan Greene, Toral Kamdar, Honorine Ward

New England Medical Center, Boston, MA, United States

(ACMCIP Abstract)

11:30 a.m.

28

MIXED PROTOZOAN INFECTION IN CROSS BRED COWS

Prince Y. Singh¹, M. P. Gupta², L. D. Singla³

¹IIT, Delhi, India, ²Department of Veterinary and Animal Husbandry, College of Veterinary Science, Punjab Agricultural University, Ludhiana, India, ³Department of Veterinary Parasitology, College of Veterinary Science, Punjab Agricultural University, Ludhiana, India

11:45 a.m.

29

GENETIC VARIATION IN GIARDIA LAMBLIA

Smilja Teodorovic, John Braverman, Heidi G. Elmendorf

Georgetown University, Washington, DC, United States

(ACMCIP Abstract)

Monday, December 12

Noon

30

DENDRITIC CELLS, REGULATORY T-CELLS AND GIARDIA LAMBLIA INFECTIONJoel D. Kamda¹, Ernest A. Tako¹, Romina Goldszmid², Steven M. Singer¹¹Georgetown University, Washington, DC, United States, ²National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

Symposium 15**Developing a Career in Tropical Disease Research: Experiences of the ASTMH Fellows****Supported with funding from the Burroughs Wellcome Fund**

Monroe East

Monday, December 12 10:15 a.m. – Noon

For the past five years, ASTMH (in conjunction with the Burroughs-Wellcome Fund and The Ellison Medical Foundation) has offered post-doctoral fellowships to support individuals interested in pursuing tropical disease research. Three of the ten fellows honored thus far will describe their work, the contribution of the fellowship and their plans. Each fellow will be introduced by a mentor, who will place their research in the larger context of their respective fields.

CHAIR

Terrie E. Taylor

Michigan State University, East Lansing, MI, United States

Victoria McGovern

The Burroughs Wellcome Fund, Research Triangle Park, NC, United States

10:15 a.m.**CAREER DEVELOPMENT IN THE TIME OF CHOLERA**

Regina LaRocque

Massachusetts General Hospital, Boston, MA, United States

10:50 a.m.**24-MONTH OUTCOMES OF MATERNAL DIRECTLY OBSERVED THERAPY WITH ANTIRETROVIRALS TO PREVENT INFANT HIV INFECTION IN RURAL HAITI**

Holly Murphy

Tulane University, New Orleans, LA, United States

11:25 a.m.**GLOBAL GENOMIC ASSESSMENT OF GENETIC DIVERSITY OF *PLASMODIUM FALCIPARUM* AND ITS IMPORTANCE IN SEVERE MALARIA: BLANTYRE, MALAWI**

Dan Milner

Harvard Medical School, Boston, MA, United States

Symposium 16**Malaria Transmission Blocking Vaccines**

Monroe West

Monday, December 12

10:15 a.m. – Noon

Malaria vaccines have long been the subject of intensive research, and although they have yet to be realized clinically, they are at least now becoming a technical possibility. Vaccines against malaria are being developed to achieve both protection of the vaccinated individual and the reduction of malaria transmission through the community. Unlike most other pathogens for which successful vaccines have been developed, the stages of the malaria parasite that cause disease are different from the stages that transmit the parasites from the mosquito vector to the human host and vice versa. Vaccines against stages that infect mosquitoes, known as transmission blocking vaccines (TBV), will directly prevent the spread of malaria through the community. In this symposia we will discuss the concept of malaria TBV and latest developments.

CHAIR

Sanjay Singh

National Institute of Health, Rockville, MD, United States

Nirbhay Kumar

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

10:15 a.m.**UNDERSTANDING MECHANISMS OF TRANSMISSION-BLOCKING IMMUNITY**

Robert Sinden

Imperial College of Science, Technology and Medicine, London, United Kingdom

10:40 a.m.**NATURALLY ACQUIRED MALARIA TRANSMISSION BLOCKING IMMUNITY IN THAILAND**

Jetsumon Sattabongkot

Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

11:10 a.m.**TRANSMISSION BLOCKING VACCINE TESTING MODEL: IMPLICATIONS IN THE VACCINE DEVELOPMENT**

Socrates Herrera

Immunology Institute, Universidad del Valle, Calle, Colombia

11:35 a.m.**PRE-DEVELOPMENT RESEARCH ON TRANSMISSION BLOCKING VACCINE CANDIDATES**

Sanjay Singh

National Institutes of Health, Rockville, MD, United States

Symposium 17

Proteomics and the Next Generation of Diagnostic Tests for Parasitic Diseases

Lincoln East

Monday, December 12 10:15 a.m. – Noon

Proteomic approaches to the development of new diagnostic tests for parasitic diseases of humans and domestic animals will be discussed. After a brief outline of the different proteomic techniques, ongoing work with a wide range of protozoan and helminthic infections will be presented. The application of proteomic tests to point-of-care testing and screening of the blood supply will be highlighted.

CHAIR

Brian J. Ward

McGill University, Montreal, Quebec, Canada

Momar Ndao

McGill University, Montreal, Quebec, Canada

10:15 a.m.

PROTEOMIC APPROACHES TO THE DIAGNOSIS OF PARASITIC DISEASES: TECHNICAL CONSIDERATIONS

Mark W. Duncan

University of Colorado, Denver, CO, United States

10:40 a.m.

SELDI-BASED AND SELDI-DERIVED ASSAYS TO PROTECT THE BLOOD SUPPLY

Momar Ndao

McGill University, Montreal, Quebec, Canada

11:10 a.m.

HIGH-THROUGHPUT APPROACHES TO PARASITIC DISEASE DIAGNOSIS BASED ON MASS SPECTROMETRY: MALARIA AND CRYPTOSPORIDIUM

Andrew B. Feldman

Johns Hopkins University, Laurel, MD, United States

11:35 a.m.

SELDI TOF MS FOR THE DIAGNOSIS OF HELMINTH INFECTIONS FROM STRONGYLOIDIASIS TO FASCIOLA HEPATICA

Brian J. Ward

McGill University, Montreal, Quebec, Canada

Symposium 18

Better Vaccines for Tuberculosis: A Progress Report

Lincoln West

Monday, December 12 10:15 a.m. – Noon

BCG vaccine has been in use since the early 1900s and showed good protection in several randomized prospective clinical trials a number of years ago. It is administered to newborns around the world and appears to reduce the risk of severe childhood TB. However, WHO estimates that about one third of the world's population has been infected with TB and that the annual incidence of new TB cases and TB deaths is in the order of 8 million and 2 million, respectively. The high incidence of TB in many countries where BCG is widely used indicates that better TB immunization is sorely needed to help control this disease. This symposium will provide a perspective on BCG and describe the momentum behind global efforts to find better ways to immunize people against TB. A number of new TB vaccine candidates are in various stages of development, including at least three that have entered Phase I clinical testing. Status of preclinical and clinical work on experimental TB vaccine products and on a prime-boost strategy to improve protection over that provided by BCG will be described, as well as the preparation of field sites for large Phase III trials that are targeted to begin a few years from now in countries where TB is endemic.

CHAIR

Naomi E. Aronson

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

Lewellys F. Barker

Aeras Global Tuberculosis Vaccine Foundation, Bethesda, MD, United States

10:15 a.m.

BCG VACCINE PERSPECTIVE

Naomi E. Aronson

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

10:40 a.m.

GLOBAL EFFORTS FOR A NEW TUBERCULOSIS VACCINE, BUILDING MOMENTUM

Michael F. Iademarco

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

11:10 a.m.

NEW TUBERCULOSIS VACCINE CANDIDATES: STATUS, PLANS AND PROGRESS

Jerald C. Sadoff

Aeras Global Tuberculosis Vaccine Foundation, Bethesda, MD, United States

11:35 a.m.

FIELD SITE DEVELOPMENT FOR CLINICAL TRIALS: STATUS AND LESSONS

Lawrence J. Geiter

Aeras Global Tuberculosis Vaccine Foundation, Bethesda, MD, United States

Scientific Session 19

Malaria — Epidemiology II

Jefferson East

Monday, December 12 10:15 a.m. – Noon

CHAIR

Indu Malhotra

Case Western Reserve University, Cleveland, OH, United States

Norma R. Padilla

Universidad del Valle de Guatemala, Guatemala, Guatemala

10:15 a.m.

31

LONGITUDINAL STUDY OF MALARIA IN PREGNANT WOMEN IN KINSHASA

Sarah Landis¹, Alisa P. Alker¹, Rinko Kinoshita¹, Kim Powers¹, Antoinette K. Tshefu², Jef Atibu³, Robert W. Ryder¹, Steven R. Meshnick¹

¹Department of Epidemiology, University of North Carolina, Chapel Hill, NC, United States, ²Kinshasa School of Public Health, Kinshasa, Congo, Democratic Republic of the, ³UNC-DRC Program, Kinshasa, Congo, Democratic Republic of the

10:30 a.m.

32

MALARIA IN PREGNANCY IN A HIGH RISK PROVINCE OF SOUTH AFRICA

Joyce M. Tsoka, Immo Kleinschmidt, Brian L. Sharp

Medical Research Council, Durban, South Africa

10:45 a.m.

33

CONGENITAL *P. FALCIPARUM* MALARIA ACQUIRED ANTENATALLY IN KENYA

Indu Malhotra¹, Jesse J. Kwiek², Steven R. Meshnick², Eric Muchiri³, John H. Ouma⁴, Christopher L. King¹

¹Case Western Reserve University, Cleveland, OH, United States, ²University of North Carolina, Chapel Hill, NC, United States, ³Division of Vector Borne Diseases, Nairobi, Kenya, ⁴Maseno University, Maseno, Kenya

11 a.m.

34

RISING MALARIA DEFERRALS AMONG BLOOD DONORS IN THE US AND PUERTO RICO

Megan Nguyen, Ed Notari, David A. Leiby

American Red Cross, Rockville, MD, United States

11:15 a.m.

35

CLUSTERED LOCAL TRANSMISSION AND ASYMPTOMATIC *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* MALARIA INFECTIONS IN A RECENTLY EMERGED, HYPOENDEMIC PERUVIAN AMAZON COMMUNITY

OraLee H. Branch¹, Martin Casapia², Dionicia V. Gamboa³, Jean N. Hernandez³, Freddy F. Alava², Norma Roncal³, Eugenia Alvarez³, Enrique Perez³, Eduardo Gotuzzo³

¹University of Alabama at Birmingham, Birmingham, AL, United States, ²Ministerio de Salud, Direccion de Salud-Loreto, Iquitos, Peru, ³Universidad Peruana Cayetano Heredia - Instituto de Medicina Tropical Alexander von Humboldt, Lima, Peru

11:30 a.m.

36

IMPROVEMENT IN HEMOGLOBIN CONCENTRATION ONE YEAR AFTER STARTING INDOOR RESIDUAL SPRAYING IN BIKO ISLAND, EQUATORIAL GUINEA

Luis Benavente¹, Immo Kleinschmidt², Chris Schwabe¹, Miguel Torrez¹, Brian Sharp²

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

11:45 a.m.

37

WHAT IS THE POTENTIAL OF INSECTICIDE TREATED NETS FOR MALARIA CONTROL IN LATIN AMERICA?

Norma R. Padilla¹, C. Cordon-Rosales¹, J. Williamson², R. Klein¹

¹CES-MERTU/G-Centers for Disease Control and Prevention, Guatemala, Guatemala, ²Centers for Disease Control and Prevention, Division of Parasitic Diseases, Atlanta, GA, United States

Symposium 20

Ultrasound in Tropical Medicine

Supported with funding from ESAOTE S.p.A./ Biosound Inc. USA, ALOKA S.p.A., SIUMB (Italian Society of Ultrasound in Medicine and Biology) and GE Healthcare Italia

Jefferson West

Monday, December 12 10:15 a.m. – Noon

Ultrasound (US) is a safe, relatively inexpensive, repeatable imaging technique that can be used at the patient's bedside. Portable scanners weighing few kilograms are commercially available and can be used for mass screenings. US is increasingly used in tropical medicine, in many instances for a wide array of applications, including screening and diagnosis, as a guide for treatment and follow-up of several parasitic diseases. This symposium is designed to review and update the expanding use of US in tropical medicine. Each speaker is a noted expert and will discuss recent advances in his/her field of application and indicate areas of controversy and future developments.

CHAIR

Enrico Brunetti

Pavia University, IRCCS S.Matteo, Pavia, Italy

Carlo Filice

Pavia University, IRCCS S.Matteo, Pavia, Italy

10:15 a.m.

ULTRASOUND AND EPIDEMIOLOGY OF PARASITIC DISEASES

Calum N. Macpherson

St. George's University, Grenada, Grenada

10:40 a.m.

ULTRASOUND AND SCHISTOSOMIASIS

Joachim Richter

Heinrich Heine University, Duesseldorf, Germany

11:10 a.m.

ULTRASOUND AND FILARIASIS

Gerusa Dreyer

NEPAF-Hospital das Clinicas-Federal University of Pernambuco, Recife, Brazil

11:35 a.m.

ULTRASOUND AND CYSTIC ECHINOCOCCOSIS IN HIGHLY ENDEMIC AREAS

Eberhard E. Zeyhle

African Medical and Research Foundation (AMREF), Nairobi, Kenya

Symposium 21

Kinetoplast Genome Proteome

Georgetown

Monday, December 12 10:15 a.m. – Noon

The sequencing and annotation of the genomes of *Trypanosoma brucei*, *Trypanosoma cruzi* and *Leishmania major* has recently been completed. This symposium will focus on the major findings in this process, highlighting the unique characteristics of these genomes as well as the features that are in common between the three. Presenters will also discuss how this genome information is being used to obtain insights into parasite biology and exploited for the identification of drug and vaccine targets.

CHAIR

Rick L. Tarleton

University of Georgia, Athens, GA

10:15 a.m.

INTRODUCTION

Rick L. Tarleton

University of Georgia, Athens, GA, United States

10:20 a.m.

THE TRITRYP GENOMES: NEW REVELATIONS AND TANGLED TALES

Najib El-Sayed

The Institute for Genome Research, Rockville, MD, United States

10:45 a.m.

TRYPANOSOMATID MITOCHONDRIAL PROCESSES AS DRUG TARGETS

Ken Stuart

Seattle Biomedical Research Institute, Seattle, WA, United States

11:10 a.m.

INSIGHT INTO TRITRYP METABOLISM, WITH SPECIAL REFERENCE TO *LEISHMANIA MAJOR*

Fred Opperdoes

Christian de Duve Institute of Cellular Pathology and Catholic University of Louvain, Brussels, Belgium

11:35 a.m.

INSIGHTS FROM THE *TRYPANOSOMA CRUZI* PROTEOME

Rick L. Tarleton

University of Georgia, Athens, GA, United States

Symposium 22

Facing the Challenge: Invisible Victims, New Tools and Capacity Building in the Fight Against Malaria

Supported with funding from GlaxoSmithKline

International Ballroom East

Monday, December 12 10:15 a.m. – Noon

The Roll Back Malaria (RBM) initiative aims to halve malaria deaths by 2010. Meanwhile, the United Nations' Millennium Development Goal is to halt and then reverse the rising incidence of the disease by 2015. But are these targets even measurable, let alone achievable? Without improved epidemiological data and properly-funded strategies to evaluate the impact of interventions such as drugs and insecticide-impregnated bednets, control efforts will fail. This symposium examines new scientific tools aiming to fill this information gap. It explores the contribution of capacity building to the provision of creditable baseline data and discusses the roles of combination drug therapy and of the Global Fund to Fight Aids, Tuberculosis and Malaria.

CHAIR

Simon Croft

Drugs for Neglected Diseases Initiative, Geneva, Switzerland

10:15 a.m.

FINDING THE INVISIBLE VICTIMS: UNCOVERING THE HIDDEN BURDEN OF MALARIA

Fred Binka

INDEPTH Network, Accra, Ghana

10:40 a.m.

BICYCLES TO BIOCHEMISTRY: CAPACITY BUILDING IN AFRICA ENABLES COUNTRIES TO TACKLE THEIR OWN HEALTH PROBLEMS

Christopher White

African Medical and Research Foundation United Republic of Tanzania

11:10 a.m.

TOGETHER WE ARE STRONGER; ANTIMALARIAL COMBINATION THERAPY

Simon Croft

Drugs for Neglected Diseases Initiative, Geneva, Switzerland

11:35 a.m.

FOOTING THE BILL: THE GLOBAL FUND

Vinand Nantulya

The Global Fund to Fight AIDS, Tuberculosis and Malaria, Geneva, Switzerland

Symposium 23

American Committee on Arthropod-Borne Viruses (ACAV): Women in Arbovirology

International Ballroom West

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

Female scientists have made significant contributions to science and in particular, arbovirology. This symposium will present a brief historical account of the role women have played in advancing arbovirology, followed by presentations of research by three esteemed female arbovirologists.

CHAIR

Laura D. Kramer

Wadsworth Center, New York State Department of Health, Albany, NY, United States

10:15 a.m.

ACAV BUSINESS MEETING

Laura D. Kramer

Wadsworth Center, Slingerlands, NY, United States

10:45 a.m.

A HISTORICAL PERSPECTIVE ON THE ROLE OF WOMEN IN SCIENTIFIC RESEARCH

Laura D. Kramer

Wadsworth Center, New York State Department of Health, Albany, NY, United States

11:10 a.m.

MOSQUITO DEFENSES TO INFECTION AND ARBOVIRUS RESPONSES

Carol Blair

Colorado State University, Fort Collins, CO, United States

11:35 a.m.

MULTIAGENT DNA VACCINES FOR BIODEFENSE

Connie Schmaljohn

US Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD, United States

Noon

MICROEVOLUTION AND VIRULENCE OF DENGUE VIRUSES

Rebeca Rico-Hesse

Southwest Foundation for Biomedical Research, San Antonio, TX, United States

12:25 p.m.

OUTBREAK REPORT

Laura D. Kramer

Wadsworth Center, Slingerlands, NY, United States

Exhibit Hall Open

Exhibit Hall

Monday, December 12 Noon – 1:30 p.m.

Poster Session A Setup

Exhibit Hall

Monday, December 12 Noon – 1:30 p.m.

Mid-Day Session 24

Infectious Disease Physicians and Tropical Disease Research

Supported with funding from the Burroughs Wellcome Fund

Monroe East

Monday, December 12 12:15 – 1:15 p.m.

A discussion session on opportunities and barriers for ID physicians going into tropical disease research. This session is a complement to a preceding session featuring the Burroughs Wellcome Fund/ The Ellison Medical Foundation/ASTMH infectious disease fellows.

CHAIR

Victoria McGovern

Burroughs Wellcome Fund, Research Triangle Park, NC, United States

Moderator

Myron S. Magen

Michigan State University, East Lansing, MI, United States

Meet the Professors 25

Meet the Professors B: Enigmatic and Teaching Cases

Supported with funding from GlaxoSmithKline

Lincoln West

Monday, December 12 12:15 – 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.

SESSION ORGANIZER

Alan Spira

The Travel Medicine Center, Beverly Hills, CA

CHAIR

Kenneth Dardick

University of Connecticut, Storrs, CT, United States

PANELISTS

Richard Guerrant

University of Virginia, Charlottesville, VA, United States

Richard D. Pearson

University of Virginia, Charlottesville, VA, United States

Mid-Day Session 26

History of Medicine: Dengue

Jefferson West

Monday, December 12 12:15 – 1:15 p.m.

38

ALBERT SABIN, THE ARMED FORCES EPIDEMIOLOGY BOARD, AND EPIDEMIC DENGUE IN HAWAI‘I: A CRASH PROGRAM TO FIND THE CAUSE OF DENGUE FEVER DURING WORLD WAR II, BASED ON NEW DATA FROM THE ALBERT B. SABIN ARCHIVES, UNIVERSITY OF CINCINNATI

David Morens

National Institutes of Health, Bethesda, MD, United States

Mid-Day Session 27

Healers Abroad – IOM Board on Global Health

International Ballroom East

Monday, December 12 12:15 – 1:15 p.m.

The Institute of Medicine (IOM) is the pre-eminent advisor to the government and nation on matters of health and health policy. This session will feature a panel discussion by senior staff and committee members regarding the current portfolio of projects in the IOM Board of Global Health with special emphasis on “Healers Abroad: Americans Responding to the Human Resource Crisis in HIV/AIDS” – a blueprint for a new, federally funded Global Health Service. Other projects to be discussed will include an evaluation of PEPFAR; an ongoing \$20 million effort to strengthen African academies of science; and national and international policy initiatives related to malaria control.

CHAIR

Claire Panosian

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

Patrick Kelley

National Academies of Science, IOM Board on Global Health, Washington, DC, United States

12:15 p.m.

CHAIRPERSON: IOM COMMITTEE ON OPTIONS FOR OVERSEAS PLACEMENT OF US HEALTH PROFESSIONALS

Fitzhugh Mullan

Project Hope, Health Affairs, George Washington University Medical Center, Washington, DC, United States

Monday, December 12

12:30 p.m.

**COMMITTEE MEMBERS: IOM COMMITTEE ON
OPTIONS FOR OVERSEAS PLACEMENT OF US
HEALTH PROFESSIONALS**

Michele Barry

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

Richard Guerrant

*University of Virginia Medical School, Charlottesville, VA,
United States*

12:45 p.m.

**SENIOR PROGRAM OFFICER: IOM REPORT ON
ECONOMICS OF MALARIA DRUGS**

Hellen Gelband

*National Academy of Science/IOM Board on Global Health,
Washington, DC, United States*

1 p.m.

DIRECTOR, IOM BOARD ON GLOBAL HEALTH

Patrick Kelley

National Academies of Science, Washington, DC, United States

Poster A Viewing

Exhibit Hall

Monday, December 12

1:30 – 7 p.m.

Symposium 28

Schistosomiasis Control in Africa

Military

Monday, December 12

1:30 – 3:15 p.m.

The symposium will start with a review of the burden of morbidity due to schistosomiasis by Dr. Charles King. Since 2002, the Schistosomiasis Control Initiative has supported national schistosomiasis and intestinal helminth control programs in six African countries. SCI has also supported a program of surveillance and monitoring in all countries. The symposium will report on all aspects of the program, including a detailed account of three years of treatment and monitoring in Uganda, and GIS mapping in all six countries.

CHAIR

Alan Fenwick

Imperial College, London, United Kingdom

Narcis Kabatereine

Ministry of Health, Kampala, Uganda

1:30 p.m.

**A REVIEW OF DISABILITY ESTIMATES AND
COST-EFFECTIVENESS FOR DIFFERENT STRATEGIES**

Charles King

Case Western Reserve University, Cleveland, OH, United States

1:55 p.m.

**THE PRESENT AND FUTURE STATUS OF THE NATIONAL
BILHARZIA CONTROL PROGRAM OF UGANDA**

Narcis Kabatereine

Ministry of Health, Kampala, Uganda

2:25 p.m.

**THE APPLICATION OF GIS TO THE MAPPING OF
SCHISTOSOMIASIS**

Simon Brooker

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

2:50 p.m.

**SCHISTOSOMIASIS CONTROL IN AFRICA —
PROGRESS AFTER 3 YEARS OF THE
SCHISTOSOMIASIS CONTROL INITIATIVE**

Alan Fenwick

*Schistosomiasis Control Initiative, Imperial College, London,
United Kingdom*

Symposium 29**Tropical Neurology***Monroe East*

Monday, December 12

1:30 – 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, retroviral infections of the nervous system in developing countries, as well as CNS infections in international travelers.

CHAIR

Joseph R. Zunt*University of Washington, Seattle, WA, United States***1:30 p.m.****PARASITIC INFECTIONS OF THE CNS**

Ana Claire Meyer

*Harvard University, Boston, MA, United States***2:05 p.m.****RETROVIRAL INFECTIONS OF THE CENTRAL NERVOUS SYSTEM IN SOUTH AMERICA**

Silvia M. Montano

*Universidad Peruana Cayetano Heredia, Lima, Peru***2:40 p.m.****CNS INFECTIONS IN INTERNATIONAL TRAVELERS**

Joseph R. Zunt

*University of Washington, Seattle, WA, United States***Symposium 30****Innovative Strategies for Infectious Disease Surveillance in Developing Countries***Monroe West*

Monday, December 12

1:30 – 3:15 p.m.

Epidemic prevention and control requires surveillance systems that provide timely and accurate epidemiologic data. In the developing world, infectious disease surveillance faces many challenges, such as poor communication and transportation infrastructure and inadequate diagnostic and informatics resources. This symposium describes approaches to infectious disease surveillance in developing countries that are addressing such challenges through cost-effective technological and epidemiologic innovations. Speakers representing the World Health Organization, the US Centers for Disease Control and Prevention, the US Department of Defense, and the non-profit Foundation for Innovative New Diagnostics will describe current work to illustrate general approaches applicable to other settings.

CHAIR

Jean-Paul Chretien*Department of Defense Global Emerging Infections Surveillance and Response System (DoD-GEIS), Silver Spring, MD, United States***Rana Hajjeh***Centers for Disease Control and Prevention, Atlanta, GA and US Naval Medical Research Unit-3, Cairo, Egypt***1:30 p.m.****INTRODUCTION**

Jean-Paul Chretien

*Walter Reed Army Institute of Research, Silver Spring, MD, United States***1:35 p.m.****THE GLOBAL POLIO LABORATORY NETWORK**

Esther de Gourville

*World Health Organization, Geneva, Switzerland***2 p.m.****SYNDROME-BASED SURVEILLANCE NETWORKS IN THE MIDDLE EAST AND AFRICA**

Rana Hajjeh

*US Centers for Disease Control and Prevention, Atlanta, GA and US Naval Medical Research Unit-3, Cairo, Egypt***2:25 p.m.****ELECTRONIC SURVEILLANCE IN PERU**

Cecilia Mundaca

*US Naval Medical Research Center Detachment, Lima, Peru***2:50 p.m.****DEVELOPING ACCURATE, AFFORDABLE DIAGNOSTIC TESTS FOR DEVELOPING COUNTRIES**

Mark Perkins

Foundation for Innovative New Diagnostics, Geneva, Switzerland

Symposium 31

Update on Hepatitis E Virus (HEV): Global Burden of Disease and Recent Vaccine Trials with a Recombinant HEV Protein

Lincoln East

Monday, December 12 1:30 – 3:15 p.m.

Hepatitis E Virus is a water-borne hepatitis that results in large epidemics with a high degree of morbidity and mortality in developing countries. This symposium will feature updates on the burden of HEV disease in India and China. In addition, the efficacy results of the recent phase II study of the HEV recombinant protein vaccine conducted in Nepal will be presented. A summary of the human safety and immunogenicity data with this vaccine will be discussed.

CHAIR

Timothy P. Endy

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

Bruce Innis

GlaxoSmithKline Biologicals, King of Prussia, PA

Robert H. Purcell

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

1:30 p.m.

EPIDEMIOLOGY OF HEPATITIS E VIRUS DISEASE IN CHINA

Youchun Wang

National Institute for the Control of Pharmaceutical and Biological Products, Beijing, China

1:55 p.m.

EPIDEMIC AND SPORADIC HEPATITIS E IN INDIA (1955-2005)

Vidya A. Arankalle

National Institute of Virology, Pune, India

2:20 p.m.

SAFETY AND EFFICACY OF A RECOMBINANT HEPATITIS E VACCINE TRIAL CONDUCTED IN NEPAL

Mrigendra P. Shrestha, Robert M. Scott

Walter Reed Army Unit Nepal, Kathmandu, Nepal

2:55 p.m.

SUMMARY OF THE SAFETY AND IMMUNOGENICITY OF A RECOMBINANT HEPATITIS E VACCINE

Khin S. Myint

Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

Symposium 32

Artemisinin Drugs: Past, Present, and Future

Lincoln West

Monday, December 12 1:30 – 3:15 p.m.

Twenty years ago Dr. Daniel Klayman introduced the western world to the artemisinin class of antimalarial drugs (*Science*, 31 May 1985). The purpose of this symposium is to honor Dr. Klayman's contributions to antimalarial chemotherapy and to review progress in the field over the past two decades. The speakers will provide a historical review of the field, summarize recent developments, and focus on existing gaps in knowledge. John Vennerstrom will review Dr. Klayman's early efforts to extract active constituents from the plant and the variety of medicinal chemistry approaches to discover new derivatives. Dennis Kyle will present a review of the mechanism of action studies and provide new data on possible mechanisms of recrudescence. Kyle Webster will discuss data on the safety and toxicity of the class and present a new initiative to define the toxicity profiles for each clinically used compound. Nick White will discuss the rationale underlying the principle of ACT and focus on the selection of the most optimal regimens for implementation.

CHAIR

Dennis E. Kyle

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

Jonathan L. Vennerstrom

University of Nebraska Medical Center, Omaha, United States

1:30 p.m.

HOW DID WE GET FROM QINGHAO TO SYNTHETIC DERIVATIVES?

Jonathan L. Vennerstrom

University of Nebraska Medical Center, Omaha, NE, United States

1:55 p.m.

DO WE REALLY KNOW HOW ARTEMISININS WORK?

Dennis E. Kyle

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

2:25 p.m.

ARTEMISININ TOXICITY: THE CHICKEN LITTLE SYNDROME

H. Kyle Webster

Life Sciences Consultants, Los Gatos, CA, United States

2:50 p.m.

RATIONALE AND PROSPECTS FOR ARTEMISININ COMBINATION THERAPY (ACT)

Nicholas J. White

Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

Symposium 33

Rising to the Challenge: A Discussion of Successful Strategies for Conducting Clinical Trials in Developing Countries

Jefferson East

Monday, December 12 1:30 – 3:15 p.m.

As the pharmaceutical industry becomes more involved in developing medicines for people in resource-constrained regions, understanding the challenges associated with completing clinical trials in these regions is essential. The Institute for OneWorld Health will convene experts in clinical trials to explore how guidelines established elsewhere can be successfully translated into practice in developing countries and how to meet the challenges and needs of study participants as well as sponsors. Panelists will share their expertise and strategies for design and implementation of clinical trials, including site selection and solicitation of cooperative partnerships with the countries involved. Experts will also share insights and lessons learned from drug trials and present options for future direction.

CHAIR

Victoria Hale

Institute for OneWorld Health, San Francisco, CA, United States

Blair Palmer

Institute for OneWorld Health, San Francisco, CA, United States

1:30 p.m.

MODERATOR

Peter Smith

London School of Hygiene and Tropical Medicine; European and Developing Countries Clinical Trials Partnership; Wellcome Trust, London, United Kingdom

1:50 p.m.

PANELIST

Christian Burri

Swiss Tropical Institute, Basel, Switzerland

2:10 p.m.

PANELIST

Leigh Peterson

Family Health International, Research Triangle Park, NC, United States

2:30 p.m.

PANELIST

Ahvie Herskowitz

Institute for OneWorld Health, San Francisco, CA, United States

Scientific Session 35

Clinical Tropical Medicine I

Georgetown

Monday, December 12 1:30 – 3:15 p.m.

CHAIR

Blaise Genton

Swiss Tropical Institute, Basel, Switzerland

Alan Magill

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

1:30 p.m.

39

REVIEW OF THE EPIDEMIOLOGICAL SITUATION OF YELLOW FEVER IN AFRICA

Sylvie C. Briand, Laurence A. Cibrelus, William Perea, Mike Ryan

World Health Organisation, Geneva, Switzerland

1:45 p.m.

40

PLASMODIUM VIVAX IS ASSOCIATED WITH SEVERE MALARIA IN PAPUA NEW GUINEAN CHILDREN

Blaise Genton¹, Valerie D'Acremont¹, Kerry Lorry², Kay Baea², John Reeder², Ivo Mueller²

¹Swiss Tropical Institute, Basel, Switzerland, ²Papua New Guinea Institute of Medical research, Goroka, Papua New Guinea

2 p.m.

41

YAWS OUTBREAK IN THE DEMOCRATIC REPUBLIC OF CONGO: THE RETURN OF A FORGOTTEN DISEASE

S. Gerstl¹, L. Ferradini¹, G. Kiwila², M. Dhorda², S. Lonlas², T. N'Danu³, D. Lemasson², E. Szumilin², PJ Guerin¹

¹Epicentre, Paris, France, ²Médecins Sans Frontières-France, Paris, France, ³Ministry of Health, Nord Oubangui, Democratic Republic of the Congo

2:15 p.m.

42

PLASMODIUM FALCIPARUM MALARIA IN AFRICAN CHILDREN: THE ROLE OF THE SIMPLIFIED MULTI-ORGAN-DYSFUNCTION SCORE AS PROGNOSTIC DISCRIMINATOR

Raimund Helbok¹, Saadou Issifou², Pierre Blaisse Matsiegui², Peter Lackner¹, Wolfgang Dent¹, Erich Schmutzhard¹, Peter G. Kremsner³

¹Department of Neurology, University of Innsbruck, Austria, ²Albert Schweitzer Hospital, Lambaréné, Gabon, ³Department of Tropical Medicine, University of Tübingen, Germany

2:30 p.m.

43

CLINICAL MANIFESTATIONS OF HUMAN MONKEYPOX INFLUENCED BY ROUTE OF INFECTIONMary Reynolds¹, **Krista Yorita**¹, Matthew Kuehnert¹, Whitney Davidson¹, Gregory Huhn², Robert Holman¹, Inger Damon¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Rush University, School of Medicine, Chicago, IL, United States

2:45 p.m.

44

A SHORT COURSE OF RIFAMPIN AND/OR AZITHROMYCIN DOES NOT ERADICATE WOLBACHIA FROM ONCHOCERCA VOLVULUS IN GUATEMALA**Josef Amann**¹, Byron Arana², George Punkosdy¹, Robert Klein², Carlos Blanco³, Beatriz Lopez², Carlos Mendoza², Mark Eberhard¹, Alfredo Dominguez⁴, James H. Maguire¹, Frank O. Richards¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Universidad del Valle, Guatemala City, Guatemala, ³Ministry of Health, Guatemala City, Guatemala, ⁴Onchocerciasis Elimination Program for the Americas (OEPA), Guatemala City, Guatemala

3 p.m.

45

RANDOMIZED CONTROLLED TRIAL COMPARING ARTESUNATE/MEFLOQUINE VERSUS ARTEMETHER/LUMEFANTRINE IN TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA IN MALI**Issaka Sagara**, Alassane Dicko, Abdoul B. Diallo, Modibo Coulibaly, Abdoulaye Djimde, Mamady Kone, Mahamadou A. Thera, Mahamadou S. Sissoko, Sory I. Diawara, Ogobara K. Doumbo

University of Bamako, Bamako, Mali

Symposium 36**American Committee of Medical Entomology (ACME) I: Factors Affecting the Ability of Mosquitoes to Transmit Pathogens**

International Ballroom East

Monday, December 12

1:30 – 3:15 p.m.

The symposium will examine various factors that affect the ability of mosquitoes to transmit a pathogen. These would include “Virus factors” (viral genetics, receptor sites, interference between closely related viruses, etc.), “Vector factors” (arthropod genetics, receptors sites, etc.), “Vector factors” (population studies, field ecology, etc.), “Environmental factors” (temperature, rainfall, modifications to the environment [e.g., dam construction], etc.), “Presence of other pathogens” (interaction between microfilariae and viruses, between Plasmodium sporozoites and viruses, and between various virus), and effects of pathogen infection on the mosquito vector (reduced fitness, reduced ability to detect blood [enhancing vectorial capacity by increasing the number of hosts probed/blood meal], potentially reduced effectiveness of repellants against infected arthropods, etc.).

CHAIR

Michael J. Turell

USAMRIID, Fort Detrick, MD, United States

1:30 p.m.

INTRODUCTION

Michael J. Turell

USAMRIID, Fort Detrick, MD, United States

1:50 p.m.

VIRAL DETERMINANTS OF ARBOVIRAL-MOSQUITO INTERACTIONS AND IMPLICATIONS FOR DISEASE EMERGENCE

Scott C. Weaver

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

2 p.m.

POPULATION GENETICS OF DENV-2 SUSCEPTIBILITY IN AEADES AEGYPTI

William C. Black

Colorado State University, Fort Collins, CO, United States

2:25 p.m.

THE ROLE OF VECTOR FACTORS (POPULATION STUDIES AND FIELD ECOLOGY) ON THE TRANSMISSION OF ARBOVIRUSES

William K. Reisen

University of California, Bakersfield, CA, United States

2:50 p.m.

EFFECTS OF MOSQUITO INNATE IMMUNITY ON PATHOGEN TRANSMISSION

Shirley Luckhart

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

Scientific Session 37**American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) – Molecular Parasitology I****Supported with funding from the Burroughs Wellcome Fund**

International Ballroom West

Monday, December 12

1:30 – 3:15 p.m.

CHAIR

Daniel J. Carucci

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

Charles B. Shoemaker

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

1:30 p.m.

1100

IDENTIFICATION OF THE MOVING JUNCTION COMPLEX OF THE APICOMPLEXAN PARASITE, *TOXOPLASMA GONDII*: A COLLABORATION BETWEEN DISTINCT SECRETORY ORGANELLES

David Alexander¹, Jeffrey Mital², Gary Ward², Peter Bradley¹, John Boothroyd¹

¹Stanford University, Stanford, CA; ²University of Vermont, Burlington, VT

1:45 p.m.

46

NEW TOOLS FOR GENETIC ANALYSIS IN PARASITIC NEMATODES

Charles B. Shoemaker¹, Susan Stasiuk², Zainab Issa², Warwick N. Grant²

¹Tufts Cummings School of Veterinary Medicine, North Grafton, MA, United States, ²AgResearch Wallaceville Animal Research Centre, Upper Hutt, New Zealand

2 p.m.

47

PROMASTIGOTE SECRETORY GEL AND THE TRANSMISSION OF *LEISHMANIA* BY SAND FLIES

Paul A. Bates¹, Matthew E. Rogers¹, Andrei V. Nikolaev², Michael A. Ferguson²

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Division of Biological Chemistry and Molecular Microbiology, Dundee, United Kingdom

2:15 p.m.

1101

CONDITIONAL EXPRESSION OF TGAMA1 DEMONSTRATES ITS CRITICAL ROLE IN INVASION AND WILL ENABLE DIRECT FUNCTIONAL ANALYSIS OF AMA1 PROCESSING

Jeffrey Mital¹, Markus Meissner², Dominique Soldati², Gary E. Ward¹

¹University of Vermont, Burlington, VT; ²Imperial College London, London, United Kingdom

2:30 p.m.

48

FROM TRANSCRIPTOME TO IMMUNOME : IDENTIFICATION OF DTH INDUCING PROTEINS FROM A *PHLEBOTOMUS ARIASI* SALIVARY GLAND CDNA LIBRARY

Fabiano Oliveira, Shaden Kamhawi, Amy E. Seitz, Van My Pham, Laurent Fischer, Jerrold Ward, Jesus G. Valenzuela
National Institutes of Health, Rockville, MD, United States

2:45 p.m.

49

HEMOZOIN DISRUPTS ENDOTHELIAL BARRIER INTEGRITY

Mark R. Gillrie¹, Andre G. Buret², D. Channe Gowda³, Kristine Lee¹, May Ho¹

¹Department of Microbiology and Infectious Diseases, University of Calgary, Calgary, AB, Canada, ²Department of Biological Sciences, University of Calgary, Calgary, AB, Canada, ³Department of Biochemistry and Molecular Biology, Pennsylvania State University College of Medicine, Hershey, PA, United States

3 p.m.

1102

CHARACTERIZATION OF ACTIN-LIKE PROTEIN 1 (ALP1), A NOVELACTIN-RELATED PROTEIN IN APICOMPLEXAN PARASITES

Jennifer Gordon, David Sibley

Washington University School of Medicine, St. Louis, MO

Coffee Break

Exhibit Hall

Monday, December 12

3:15 – 3:45 p.m.

Symposium 37A

Scaling-up Antiretroviral Therapy Use in Sub-Saharan Africa: Achievements and Challenges

Monroe East

Monday, December 12

3:45 – 5:30 p.m.

The much anticipated influx of funds and resources under the initiatives such as WHO's 3-by-5 campaign and the Global Fund to Fight AIDS, Tuberculosis, and Malaria, the US President's Emergency Plan for AIDS Relief, the World Bank's Multi-Country HIV/AIDS Programme for the Africa Region and a growing number of national HIV/AIDS programmes 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

Thomas Quinn

Johns Hopkins University, Baltimore, United States

Charles Gilks

World Health Organization, Geneva, Switzerland

3:45 p.m.

THE EVOLVING GLOBAL EPIDEMIOLOGY OF HIV/AIDS

Thomas Quinn

Johns Hopkins University, Baltimore, MD, United States

Monday, December 12

4:15 p.m.**A FAMILY APPROACH TO HIV/AIDS-PREVENTION, CARE AND ANTIRETROVIRAL THERAPY IN AFRICA**

Jonathan Mermin

*Centers for Disease Control and Prevention-Uganda, Kampala, Uganda***4:40 p.m.****HIV TREATMENT ISSUES IN SUB-SAHARAN AFRICA**

Jean Nachega

*Johns Hopkins University, Baltimore, MD, United States***5:05 p.m.****WHO'S 3-BY-5 STRATEGIC PLAN: A PROGRESS REPORT AND THE WAY FORWARD**

Charles Gilks

*World Health Organization, Geneva, Switzerland***Symposium 38**

The Role of Human Ecology in the Control of Tropical and Vector-borne Diseases*Monroe West*

Monday, December 12

3:45 – 5:30 p.m.

This session will discuss ongoing research efforts that account for the role of human behavior and human ecology in the transmission and prevention of tropical and vector-borne diseases. Understanding the multiplicity of interactions involved in infectious disease transmission, such as the role of human behavioral factors in complex disease ecology models, is important in fostering scientifically rigorous research that can be used by the public health and infectious disease communities. Community-based field research, which focuses on applied outcomes, will be highlighted in the symposium by providing examples of successful, innovative intervention strategies that document the characteristics of the human environment most associated with disease risk.

CHAIR

Mary H. Hayden*University of Colorado, Colorado Springs, CO, United States***Emily Zielinski-Gutierrez***Centers for Disease Control and Prevention, Fort Collins, CO, United States***3:45 p.m.****LEPTOSPIROSIS IN HAWAII: A SOCIAL-ECOLOGICAL PERSPECTIVE AND THE ROLE OF LOCAL AND TRADITIONAL KNOWLEDGE IN RESEARCH AND PREVENTION**

Bruce A. Wilcox

*Asia-Pacific Institute for Tropical Medicine and Infectious Diseases, University of Hawaii, Honolulu, HI, United States***4:10 p.m.****IMPROVED PARTICIPATION IN MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS IN AMERICAN SAMOA**

Jonathan King

*Centers for Disease Control and Prevention, Division of Parasitic Disease, Atlanta, GA, United States***4:35 p.m.****COMMUNITY-BASED SOURCE REDUCTION FOR DENGUE AND FILARIASIS VECTORS IN AMERICAN SAMOA**

Mark Schmaedick

*American Samoa Community College, Pago Pago, American Samoa***5 p.m.****KNOWLEDGE, ATTITUDES AND PRACTICES CONCERNING WEST NILE VIRUS ON THE CALIFORNIA/BAJA CALIFORNIA BORDER**

Maureen Fonseca-Ford

*Centers for Disease Control and Prevention; Division of Global Migration and Quarantine, San Diego, CA, United States***Symposium 39**

The Globalization of Diseases of Public Health Significance*Lincoln East*

Monday, December 12

3:45 – 5:30 p.m.

As a consequence of globalization and population mobility, the burden of tropical diseases is no longer confined in clinical practice nor in public health policy to endemic areas. Longstanding gaps in prevalence between affected and non-affected zones are rapidly bridged by migrants and long-staying travelers. Changes in the patterns of residence, work and travel supported by evolving late 20th Century advances in telecommunication, technology, trade and transportation have narrowed the distance between endemic and epidemic events in tropical to temperate zones. High-speed travel now allows for the greater presentation of imported disease pathology beyond traditional ports of entry, influencing both the demand need for diagnostic and clinical management capacity throughout the health care sector. This symposium will present a framework of global disease management and policy formation that describes shifts from the classical tools of disease control and clinical assessment to an approach that is as applicable to the bedside clinician, educator, as well as the international public health policy maker. Discussion will draw on existing knowledge of tropical diseases and control practices taking as examples HIV/AIDS, syphilis, SARS and the 2005 revision of the international health regulations.

CHAIR

Douglas W. MacPherson*Migration Health Consultants Inc., Cheltenham, ON, Canada***Brian D. Gushulak***Migration Health Consultants Inc., Vienna, Austria*

3:45 p.m.

INTRODUCTION

Douglas W. MacPherson
Migration Health Consultants Inc., Cheltenham, ON, Canada

4:05 p.m.

MANAGING THE HEALTH OF MIGRANTS TO THE US — SHIFTING POLICIES AND PRACTICES

Martin Cetron
Centers for Disease Control, Atlanta, GA, United States

4:30 p.m.

MIGRANT HEALTH CARE IN THE US: HEALTH SCREENING, IMMUNIZATIONS, AND OTHER CHALLENGES

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

4:50 p.m.

SHIFTING THE APPROACH TO GLOBAL DISEASE THREATS AND RISKS — THE 2005 REVISIONS OF THE INTERNATIONAL HEALTH REGULATIONS AND POPULATION MOBILITY

David Heymann
World Health Organization, Geneva, Switzerland

5:15 p.m.

PANEL DISCUSSION

Symposium 40

Viral Hemorrhagic Fevers

Lincoln West

Monday, December 12 3:45 – 5:30 p.m.

Due to their clinical severity, person-to-person transmissibility, ability to form stable infectious aerosols, absence of licensed vaccines or anti-viral therapies, and tendency to cause outbreaks associated with high mortality and public panic, the viral hemorrhagic fevers have become a major public health concern. Recent years have seen increasing outbreaks of Ebola, Marburg, and Lassa viruses, among others. How serious is the threat of viral hemorrhagic fevers and what progress is being made to address these pathogens?

CHAIR

Daniel G. Bausch

Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

Joel Montgomery

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

3:45 p.m.

ANGOLA 2005: MARBURG RESURFACES

Joel M. Montgomery
Centers for Disease Control and Prevention, Atlanta, GA, United States

4:05 a.m.

FIELD DIAGNOSTICS FOR THE VIRAL HEMORRHAGIC FEVERS

Heinz Feldmann
Public Health Agency of Canada, Winnipeg, MB, Canada

4:25 p.m.

VACCINES AND THERAPEUTICS FOR THE VIRAL HEMORRHAGIC FEVERS

Thomas Geisbert
United States Army Medical Research Institute, Fort Detrick, MD, United States

4:45 p.m.

BUILDING CAPACITY FOR VHF CONTROL: THE MANO RIVER UNION LASSA FEVER NETWORK

May Chu
World Health Organization, Geneva, Switzerland

5:05 p.m.

FILOVIRUS CONNECTIONS WITH WILDLIFE AND RURAL COMMUNITIES

William Karesh
Wildlife Conservation Society, Bronx, NY, United States

Symposium 41

Ethics of International Collaborative Research

Jefferson East

Monday, December 12 3:45 – 5:30 p.m.

Health research is a public good and the burden and benefits of doing health research should be shared equally by the partners involved. International researchers must develop a deeper understanding of the context within which their research is being conducted. Educating researchers and members of research ethics committees about research ethics is a requirement for making moral progress in international health research.

CHAIR

Fernando J. Andrade-Narvaez

Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico

Eric M. Meslin

Indiana University Center for Bioethics, Indianapolis, IN, United States

3:45 p.m.**COLLABORATIVE RESEARCH: STRATEGIES AND ETHICAL CONDUCT**

Miriam F. Kelty

*National Institute on Aging, National Institutes of Health, Bethesda, MD, United States***4:10 p.m.****TAILORING US REQUIREMENTS FOR RCR EDUCATION TO COLLABORATIVE RESEARCH IN LATIN AMERICA**

Elizabeth Heitman

*Vanderbilt University Medical Center, Nashville, TN, United States***4:40 p.m.****ARE HEALTH RESEARCH ACCOMPLISHMENT RELATED TO POPULATION REQUIREMENTS?**

Angélica Ángeles Llerenas

*Instituto Nacional de Salud Pública, Mexico, DF, Mexico***5:05 p.m.****ISSUES OF TRANSNATIONAL CAPACITY BUILDING IN RESEARCH ETHICS**

Eric M. Meslin

*Indiana University Center for Bioethics, Indianapolis, IN, United States***Symposium 42****New Fixed-Dose Artemisinin Combination Therapies to Treat Falciparum Malaria***Jefferson West*

Monday, December 12

3:45 – 5:30 p.m.

Artemisinin-based therapies in free combinations have been effective in treating malaria and no known cases of resistance to artemisinin have been identified so far. Fixed-dose artemisinin combinations will increase compliance, further reduce the occurrence of resistance, and improve efficacy; and several new artemisinin fixed-dose combinations are in the pipeline. The challenge, however, lies in developing stable formulations as quickly as possible, accelerating the development and registration of the drugs, and ensuring availability and adoption.

CHAIR

Jaya Banerji*Drugs for Neglected Diseases Initiative, Geneva, Switzerland***Nick White***Wellcome Trust Mahidol University Oxford Tropical Medicine Research Programme, Bangkok, Thailand***3:45 p.m.****ARTESUNATE AMODIAQUINE**

Sodiomon Sirima

*Centre National de Recherche et de Formation sur le Paludisme (CNRFP), Ouagadougou, Burkina Faso***4:15 p.m.****ARTESUNATE MEFLOQUINE**

Elizabeth Ashley

*Shoklo Malaria Research Unit, Mae Sod, Tak, Thailand***4:40 p.m.****ARTEKIN – DIHYDROARTEMISININ-PIPERAQUINE**

Umberto D'Alessandro

*Prince Leopold Institut of Tropical Medicine, Antwerp, Belgium***5:05 p.m.****PYRONARIDINE-ARTESUNATE**

Larry Fleckenstein

*University of Iowa, Iowa City, IA, United States***Scientific Session 43****Clinical Tropical Medicine II***Georgetown*

Monday, December 12

3:45 – 6 p.m.

CHAIR

Davidson H. Hamer*Boston University, Center for International Health and Development, Boston, MA, United States***Robert A. Gasser, Jr.***Walter Reed Army Medical Center, Washington, DC, United States***3:45 p.m.****50****WEB-BASED GUIDELINES FOR THE EVALUATION OF FEVER IN RETURNING TRAVELERS AND MIGRANTS WWW.FEVERTRAVEL.CH : AN ONLINE 'GLOBAL' STUDY ON FEASIBILITY AND SAFETY FOR USE BY THE PRIMARY CARE PHYSICIAN****Blaise Genton**¹, Yolanda Mueller¹, Anne-Emmanuelle Ambresin¹, Bernard Burnand², Valerie D'Acremont¹*¹Travel Clinic, Medical Outpatient Clinic, University of Lausanne, Lausanne, Switzerland, ²Center for Clinical Epidemiology, University of Lausanne, Lausanne, Switzerland***4 p.m.****51****FEASIBILITY AND ACCEPTABILITY OF USE OF COARTEM FOR EARLY APPROPRIATE HOME MANAGEMENT OF FEVERS IN CHILDREN AGED 6-59 MONTHS IN GHANA****Margaret A. Chinbuah**, John O. Gyapong, Edith K. Wellington, Margaret Gyapong*Ghana Health Service, Accra, Ghana*

4:15 p.m.

52

OUTBREAK OF CYCLOSPORIASIS AT A NAVAL BASE IN ANCÓN, LIMA, PERÚ

Paola A. Torres¹, Carmen C. Mundaca¹, José Quispe², Andrés G. Lescano¹, David L. Blazes¹

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

4:30 p.m.

53

HIGH PREVALENCE OF UNTREATED TROPICAL INFECTIOUS DISEASES AMONG SUDANESE REFUGEES LIVING IN THE US

Carlos Franco-Paredes, Russell Kempker, Roberta Dismukes, Deborah Nicolls, Phyllis Kozarsky
Emory University School of Medicine, Atlanta, GA, United States

4:45 p.m.

54

INTERMITTENT PRESUMPTIVE THERAPY OF MALARIA WITH SP IN HIV-SEROPOSITIVE ZAMBIAN WOMEN: A PLACEBO-CONTROLLED, RANDOMIZED TRIAL

Davidson H. Hamer¹, Victor Mwanakasale², Victor Chalwe², Lawrence Mwanayanda², Doreen Mukwamataba², Roma Chilengi², M. Mubikayi³, C. Mulele⁴, Davies Champo², Modest Mulenga², Donald M. Thea¹, William B. MacLeod¹, Christopher J. Gill¹

¹Center for International Health and Development, Boston, MA, United States, ²Tropical Diseases Research Centre, Ndola, Zambia, ³Ndola Central Hospital, Ndola, Zambia, ⁴Mines Hospital, Kitwe, Zambia

5 p.m.

55

TYPHOID FEVER INCIDENCE IN 2 SUB-DISTRICTS OF NORTH JAKARTA, INDONESIA, THROUGH PASSIVE SURVEILLANCE

Narain H. Punjabi¹, Magdarina D. Agtini², Cyrus H. Simanjuntak¹, Decy S. Subekti¹, Lorenz von Seidlein³, Sri P. Pulungsih⁴, Ferry Wangsasaputra², Santoso Soeroso⁴, Jacqueline H. Deen³, Hye Joon Lee³, Agus Suwandono², John D. Clemens³

¹NAMRU-2, Jakarta, Indonesia, ²National Institutes of Health, Jakarta, Indonesia, ³IVI, Seoul, Republic of Korea, ⁴RSPiSS, Jakarta, Indonesia

5:15 p.m.

56

BURDEN OF INVASIVE DISEASE CAUSED BY HAEMOPHILUS INFLUENZAE TYPE B AND STREPTOCOCCUS PNEUMONIAE AMONG INFANTS IN BAMAKO, MALI

Samba O. Sow¹, Milagritos D. Tapia², Souleymane Diallo³, James D. Campbell², Karen Kotloff², Myron M. Levine²
¹Center for Vaccine Development-Mali, Bamako, Mali, ²University of Maryland School of Medicine, Baltimore, MD, United States, ³Hopital Gabriel Toure, Bamako, Mali

5:30 p.m.

670

AN OPEN, DOSE-RANGING, PHASE II TRIAL OF CHLORPROGUANIL/DAPSONE WITH THREE DOSES OF ARTESUNATE FOR THE TREATMENT OF ACUTE UNCOMPLICATED PLASMODIUM FALCIPARUM (P.F) MALARIA

Dan Wootton¹, Hyginus Opara², Maggie Nyirenda³, Hannah Blencoe³, Maxwell Kanjala⁴, Ignatius Baldeh², Mary Woessner⁵, Colin Neate⁶, Stephan Duparc⁶, Paula Kirby⁶, Paul Milligan⁷, Malcolm Molyneux⁴, Sam Dunyo², Peter Winstanley⁸

¹Tropical and Infectious Disease Unit, Royal Liverpool University Hospital, Liverpool, United Kingdom, ²MRC Laboratories, Fajara, Gambia, ³College of Medicine, Blantyre, Malawi, ⁴Malawi-Liverpool Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ⁵GlaxoSmithKline, Philadelphia, PA, United States, ⁶GlaxoSmithKline, London, United Kingdom, ⁷London School of Hygiene and Tropical Medicine, London, United Kingdom, ⁸University of Liverpool, Liverpool, United Kingdom

5:45 p.m.

1095

A CASE REPORT OF MEFLOROQUINE-INDUCED ALTERATION OF CARDIAC PACEMAKER THRESHOLDS
Neil E. Gibson

Department of National Defence, Canada, St. Albert, AB, Canada

Symposium 44

American Committee of Medical Entomology (ACME) II: Factors Affecting the Ability of Mosquitoes to Transmit Pathogens

International Ballroom East

Monday, December 12

3:45 – 5:30 p.m.

This session is the continuation of the ACME Symposium on Factors Affecting the Ability of Mosquitoes to Transmit Pathogens and will be immediately followed by the ACME business meeting.

CHAIR

Michael J. Turell

United States Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD, United States

Monday, December 12

3:45 p.m.

EFFECTS OF ENVIRONMENTAL FACTORS ON THE TRANSMISSION OF VIRUSES

Kenneth J. Linthicum

USDA-Center for Medical, Agricultural and Veterinary Entomology, Gainesville, FL, United States

4:20 p.m.

EFFECTS OF THE PRESENCE OF OTHER PATHOGENS ON THE TRANSMISSION OF VIRUSES

Michael J. Turell

United States Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD, United States

4:55 p.m.

EFFECTS OF PATHOGEN INFECTION AND NUTRITIONAL FACTORS ON PATHOGEN TRANSMISSION

Peter F. Billingsley

*School of Biological Sciences, University of Aberdeen, Aberdeen, United Kingdom***Scientific Session 45****American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) — Molecular Parasitology II****Supported with funding from the Burroughs Wellcome Fund***International Ballroom West*

Monday, December 12

3:45 – 5:30 p.m.

CHAIR

Peter Zimmerman*Case Western Reserve University, Cleveland, OH, United States***Mary Ann McDowell***University of Notre Dame, Notre Dame, IN, United States*

3:45 p.m.

1103

EXCLUSIVE EXPRESSION OF VIRULENCE GENES BY THE MALARIA PARASITES *P. FALCIPARUM* IS REGULATED INDEPENDENTLY OF ANTIGEN PRODUCTION**Ron Dzikowski**, Frank Matthias, Kirk Deitsch*Weill Medical College of Cornell University, New York, NY*

4 p.m.

57

A WOLBACHIA ENDOSYMBIONT DNA SEQUENCE IS HORIZONTALLY TRANSFERRED TO THE NUCLEAR GENOME OF THE FILARIAL PARASITE *BRUGIA MALAYI***Peter Fischer**¹, Jessica Ingram², Dietrich W. Buttner³, Christel Schmetz³, Barton Slatko²*¹Washington University School of Medicine, St. Louis, MO, United States, ²New England Biolabs, Beverly, MA, United States,**³Bernhard Nocht Institute, Hamburg, Germany*

4:15 p.m.

58

ESTABLISHING RNAI TO KNOCKDOWN *FREP2* EXPRESSION IN THE SNAIL, *BIOMPHALARIA GLABRATA*, AN INTERMEDIATE HOST FOR *SCHISTOSOMA MANSONI***Si-Ming Zhang**, Yiguo Jiang, Eric S. Loker*University of New Mexico, Albuquerque, NM, United States*

4:30 p.m.

1104

PLASMODIUM* LIVER STAGE DEVELOPMENT DEPENDS ON RECRUITMENT OF A HOST HEPATOCYTE FACTOR*Ann-Kristin Mueller**¹, Kristin Goetz¹, Stefan Kappe², Kai Matuschewski¹*¹University of Heidelberg, Heidelberg, Germany²Seattle Biomedical Research Institute, Seattle, WA*

4:45 p.m.

59

DIAGNOSING INFECTION LEVELS OF FOUR HUMAN MALARIA PARASITE SPECIES BY A PCR/LDR FLUORESCENT MICROSPHERE-BASED ASSAY**David T. McNamara**¹, Laurin J. Kasehagen¹, Brian T. Grimberg¹, Jennifer Cole-Tobian¹, William E. Collins², **Peter A. Zimmerman**¹*¹Case Western Reserve University, Cleveland, OH, United States,**²Centers for Disease Control and Prevention, Chamblee, GA, United States*

5 p.m.

60

GENE GUN IMMUNIZATION AGAINST CIRCUMSPOROZOITE PROTEIN OF *PLASMODIUM BERGHEI* INDUCES PROTECTIVE IMMUNITY INDEPENDENT OF EFFECTOR T CELLS**Elke S. Bergmann-Leitner**¹, Elizabeth H. Duncan¹, Wolfgang W. Leitner², Jackie L. Williams¹, Jeffrey A. Lyon¹*¹Walter Reed Army Institute, Silver Spring, MD, United States,**²National Institutes of Health, Bethesda, MD, United States*

5:15 p.m.

61

INVESTIGATING THE ROLE OF *PLASMODIUM FALCIPARUM* ERYTHROCYTE MEMBRANE PROTEIN 1 INTERACTION WITH CHONDROITIN SULFATE A IN THE PATHOGENESIS OF PLACENTAL MALARIA**Michael F. Duffy**¹, Alexander G. Maier², Timothy J. Byrne¹, Salenna R. Elliott¹, Allison J. Marty², Paul D. Payne¹, Stephen J. Rogerson¹, James G. Beeson², Matthew O'Neil², Alan F. Cowman², Brendan S. Crabb², **Graham V. Brown**¹*¹University of Melbourne, Victoria, Australia, ²The Walter and Eliza Hall Institute of Medical Research, Melbourne, Victoria, Australia*

Exhibit Hall Open

Exhibit Hall

Monday, December 12 4:30 – 5:30 p.m.

Plenary Session II

International Ballroom Center

Monday, December 12 6 – 6:45 p.m.

Fred L. Soper Lecture

The Fred L. Soper Lecture is an honor bestowed on a distinguished scientist involved in studies related to environmental control and preventive medicine in the tropics.

CHAIR

Robert B. Tesh

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

Q FEVER

Didier Raoult

Unite des Rickettsies, Marseille, France

**Late Breakers in Basic Science/
Molecular Biology**

International Ballroom East

Monday, December 12 7 – 9 p.m.

CHAIR

Rebeca Rico-Hesse

Southwest Foundation for Biomedical Research, San Antonio, TX, United States

Stefan Kappe

Seattle Biomedical Research Institute, Seattle, WA, United States

This session is specifically designed for brief presentations of important, new data obtained after the closing date for abstract submission.

See Late Breaker handout for presentation schedule.

Late Breakers in Clinical Tropical Medicine

International Ballroom West

Monday, December 12 7 – 9 p.m.

CHAIR

Barbara L. Herwaldt

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

David F. McNeeley

Tibotec, Raritan, NJ, United States

This session is specifically designed for presentations of new data of interest to practicing clinicians, obtained after the closing date for abstract submission. Reports of clinical trials, preliminary data on new outbreaks of disease and individual case reports will be presented.

See Late Breaker handout for presentation schedule.

Tuesday, December 13

Registration

Concourse Foyer

Tuesday, December 13 7 a.m. – 5 p.m.

Journal Editorial Board Breakfast

State

Tuesday, December 13 7 – 8 a.m.

Clinical Group Past Presidents Breakfast

Chevy Chase

Tuesday, December 13 7 – 8 a.m.

Poster Session A Viewing

Exhibit Hall

Tuesday, December 13 7 a.m. – Noon

Scientific Session 46

Malaria – Mosquito Biology

Hemisphere

Tuesday, December 13 8 – 9:30 a.m.

CHAIR

Jan E. Conn

New York State Department of Health, Slingerlands, NY, United States

Mary Ann McDowell

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

8 a.m.

62

POPULATION GENETIC STRUCTURE OF THE MALARIA VECTOR ANOPHELES DARLINGI USING THE NUCLEAR WHITE GENE: EVIDENCE FOR INCIPIENT SPECIATION OR CRYPTIC SPECIES?

Lisa Mirabello, Jan Conn

State University of New York at Albany, Albany, NY, United States

8:15 a.m.

63

AN ENTOMOPATHOGENIC FUNGUS AGAINST ADULT AFRICAN MALARIA MOSQUITOES

Ernst-Jan Scholte¹, Kija Ng'habi², Japheth Kihonda³, Willem Takken¹, Krijn Paaijmans¹, Salim Abdulla², Gerry Killeen², Bart G.j. Knols⁴

¹Wageningen University, Wageningen, Netherlands, ²Ifakara Health Research and Development Centre, Ifakara, United Republic of Tanzania, ³Swiss Tropical Institute, Basel, Switzerland, ⁴International Atomic Energy Agency, Seibersdorf, Austria

Tuesday, December 13

8:30 a.m.

64

DYNAMIC MODELING OF MALARIA TRANSMISSIONS WITH APPLICATIONS TO A STUDY SITE IN WESTERN THAILAND

Richard K. Kiang¹, **Farida Adimi**¹, Gabriela E. Zollner², Russell E. Coleman²

¹NASA Goddard Space Flight Center, Greenbelt, MD, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

8:45 a.m.

65

GENETIC DIFFERENTIATION BETWEEN THE BAMAKO AND SAVANNA CHROMOSOMAL FORMS OF ANOPHELES GAMBIAE AS INDICATED BY AFLP ANALYSIS

Michel Slotman¹, Monique Mendez¹, Alessandra della Torre², Guimogo Dolo³, Yeya Toure⁴, **Adalgisa Caccone**¹

¹Yale University, New Haven, CT, United States, ²Universita of Rome "La Sapienza", Rome, Italy, ³Ecole Nationale de Medecine et de Pharmacie, Bamako, Mali, ⁴World Health Organization, Geneva, Switzerland

9 a.m.

66

GENETIC DIFFERENTIATION AND ORIGIN OF SÃO TOMÉ AND PRÍNCIPE (WEST AFRICA) ANOPHELES GAMBIAE POPULATIONS

Jonathan Marshall¹, J. Pinto², J. D. Charlwood³, G. Gentile⁴, F. Santolamazza⁵, F. Simard⁶, A. dellaTorre⁵, A. Caccone¹

¹Yale University, New Haven, CT, United States, ²University Nova de Lisboa, Lisboa, Portugal, ³Institute for Health Research, Copenhagen, Denmark, ⁴University "Tor Vergata", Rome, Italy, ⁵University "La Sapienza", Rome, Italy, ⁶Oceac, Yaoundé, Cameroon

9:15 a.m.

67

THE EFFECT OF MOSQUITO SALIVA ON PLASMODIUM YOELII INFECTION

Michael J. Donovan, Deborah A. Scrafford, Mary A. McDowell

University of Notre Dame, Notre Dame, IN, United States (ACMCIP Abstract)

Scientific Session 47

Viruses I — Hantaviruses

Military

Tuesday, December 13

8 – 9:45 a.m.

CHAIR

Brian Hjelle

University of New Mexico, Albuquerque, NM, United States

Connie Schmaljohn

USAMRIID, Fort Detrick, MD, United States

8 a.m.

68

A NEW PUUMALA HANTAVIRUS AS CAUSE OF AN NEPHROPATHIA EPIDEMICA OUTBREAK IN SOUTH-EAST GERMANY IN 2004

Sandra S. Essbauer¹, Jonas Schmidt², Franz C. Conraths², Robert Friedrich², Judith Koch³, Wolfgang Hautmann⁴, Martin Pfeffer¹, Roman Wölfel¹, Ernst J. Finke¹, Gerhard Dobler¹, Rainer Ulrich²

¹Bundeswehr Institute of Medical Microbiology, Munich, Germany, ²Friedrich-Loeffler-Institut, Federal Research Institute for Animal Health, Institute of Epidemiology, Wusterhausen, Germany, ³Robert Koch-Institut, Berlin, Germany, ⁴Bayerisches Landesamt für Gesundheit und Lebensmittelsicherheit, Munich, Germany

8:15 a.m.

69

IMPACT OF LAND COVER CHANGE ON HANTAVIRUS ECOLOGY IN THE INTER-ATLANTIC FOREST OF PARAGUAY

Colleen B. Jonsson¹, Douglas G. Goodin², Robert D. Owen³, Yong-Kyu Chu¹, David Koch²

¹Southern Research Institute, Birmingham, AL, United States, ²Department of Geography, Kansas State University, Manhattan, KS, United States, ³Department of Biological Sciences, Texas Tech University, Lubbock, TX, United States

8:30 a.m.

70

A HOSPITAL-BASED PROSPECTIVE STUDY OF HANTAVIRUS INFECTIONS IN BANDUNG, INDONESIA

Bacchi Alisjahbana¹, Herman Kosasih², Yumilia Hoo³, Mia Milanti¹, Susana Widjaja², Erlin Listiyaningsih², Djatnika Setiabudi⁴, Charmagne G. Beckett⁵, **Patrick J. Blair**²

¹Internal Medicine Department Hasan Sadikin Hospital, Bandung, Indonesia, ²US Naval Medical Research Unit 2, Jakarta, Indonesia, ³Internal Medicine Department Immanuel Hospital, Bandung, Indonesia, ⁴Pediatrics Department Hasan Sadikin Hospital, Bandung, Indonesia, ⁵Naval Medical Research Center, Silver Spring, MD, United States

8:45 a.m.

71

THE FINDING OF PUUMALA AND SEOUL HANTAVIRUSES IN RATTUS SP, WITHIN JAVA, INDONESIA

Erlin Listiyaningsih¹, Gustiani Gustiani¹, Herman Kosasih¹, Ima N. Ibrahim², Susana Widjaja¹, Ratna Irsiana Tan³, Kevin R. Porter³, Charmagne G. Beckett³, Patrick J. Blair¹

¹United States Naval Medical Research Unit No. 2, Jakarta, Indonesia, ²Center for Health Ecology Research and Development, National Institutes of Health R&D, Jakarta, Indonesia, ³Viral Diseases Department Naval Medical Research Center, Silver Spring, MD, United States

9 a.m.

72

A PREDICTIVE MODEL FOR IDENTIFYING PERSISTENT POPULATIONS OF PEROMYSCUS MANICULATUS INFECTED WITH SIN NOMBRE VIRUS

Christine L. Hice¹, Timothy M. Shields², Greg E. Glass², James N. Mills³, Terry L. Yates¹

¹University of New Mexico, Albuquerque, NM, United States, ²The John Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

9:15 a.m.

73

INNATE IMMUNE RESPONSES TO SIN NOMBRE VIRUS COMPONENTS SUGGEST THAT ENDOTHELIAL CELLS RECOGNIZE A SPECIFIC PATHOGEN-ASSOCIATED MOLECULAR PATTERN (PAMP) IN THE VIRAL PARTICLE

Joseph B. Prescott, Chunyan Ye, **Brian Hjelle**
University of New Mexico HSC, Albuquerque, NM, United States

9:30 a.m.

74

SHOCK IN HAMSTER MODELS OF HANTAVIRUS INFECTION

Matthew Campen¹, Mary Lou Milazzo², Charles Fulhorst², **Frederick T. Koster**¹

¹Lovelace Respiratory Research Institute, Albuquerque, NM, United States, ²University of Texas Medical Branch, Galveston, TX, United States

Scientific Session 48

Kinetoplastida I

Monroe East

Tuesday, December 13

8 - 9:45 a.m.

CHAIR

Richard Titus

Colorado State University, Fort Collins, CO, United States

Charles L. Jaffe

Hebrew University-Hadassah Medical School, Jerusalem, Israel

8 a.m.

75

CHAGAS TRANSMISSION IN A PRIMATE COLONY IN LOUISIANA

Megan Daigle¹, Frank Cogswell², Patricia L. Dorn¹

¹Loyola University New Orleans, New Orleans, LA, United States, ²Tulane National Primate Research Center, Covington, LA, United States

8:15 a.m.

76

ASYMPTOMATIC LEISHMANIAL INFECTION AND KALA-AZAR IN A BANGLADESHI COMMUNITY

Caryn Bern¹, John Williamson¹, Rashidul Haque², Katie Kurkjian¹, Josef Amann¹, Rajib Chowdhury², Mustakim Ali², Louise Vaz¹, Catherine Cetre-Sossah¹, Allen Hightower¹, Yukiko Wagatsuma², Robert Breiman¹, James Maguire¹, Evan Secor¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²ICDDR,B, Dhaka, Bangladesh

8:30 a.m.

77

THE EPIDEMIOLOGY OF THE CHAGAS DISEASE VECTOR, TRIATOMA INFESTANS, IN A PERIURBAN COMMUNITY, AREQUIPA, PERU

Michael Z. Levy¹, Natalie Bowman², Vivian Kawai², Lance Waller³, Eleazer Cordova⁴, Juan Cornejo del Carpio⁵, Robert Gilman², Caryn Bern¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²A.B. PRISMA, Lima, Peru, ³Emory University, Atlanta, GA, United States, ⁴San Agustin National University, Arequipa, Peru, ⁵Arequipa Regional Office of the Peruvian Ministry of Health, Arequipa, Peru

8:45 a.m.

78

IDENTIFICATION OF ANTIKINETOPLASTID COMPOUNDS FROM PLANTS

Karl Werbovets, Manar Salem, Mitali Mukherjee, Samia Zidan, Mark Bahar, Joshua Fletcher, Nasir Hassan, A. Douglas Kinghorn

Ohio State University College of Pharmacy, Columbus, OH, United States

9 a.m.

79

SCREENING FOR NEW DRUGS AGAINST LEISHMANIA MAJOR

Richard Titus¹, Stephanie St. George², Jeanette Bishop¹, Claude Selitrennikoff²

¹Colorado State University, Fort Collins, CO, United States, ²Mycologics, Inc., Aurora, CO, United States

9:15 a.m.

80

EFFECTIVE CLEARANCE OF LEISHMANIA MAJOR INFECTION IN SUSCEPTIBLE BALB/C MICE BY NANODISK-BOUND AMPHOTERICIN B

Richard Titus¹, Keith Nelson¹, Jeanette Bishop¹, Robert Ryan²

¹Colorado State University, Fort Collins, CO, United States, ²Children's Hospital Oakland Research Institute, Oakland, CA, United States

9:30 a.m.

81

REVERSE LINE BLOT — POLYMERASE CHAIN REACTION (RLB-PCR) FOR THE DIAGNOSIS OF OLD WORLD LEISHMANIASIS

Ester Bensoussan¹, Abedelmajeed Nasereddin¹, Gad Baneth², **Charles L. Jaffe**¹

¹Hebrew University-Hadassah Medical School, Jerusalem, Israel, ²Koret School of Veterinary Medicine, Hebrew University, Rehovot, Israel

Scientific Session 49

Cestodes I

Monroe West

Tuesday, December 13

8 – 9:45 a.m.

CHAIR

A. Clinton White

Baylor College of Medicine, Houston, TX, United States

Peter Kern

University Hospital and Medical Center, University of Ulm, Ulm, Germany

8 a.m.

82

HUMAN ECHINOCOCCOSIS IN NINGXIA HUI AUTONOMOUS REGION, NORTH-CENTRAL CHINA: FROM PAST TO PRESENT

Yu R. Yang¹, Yu R. Yang², Philip S. Craig³, Dominique A. Vuitton⁴, Patrick Giraudoux⁴, David Pleydell³, Tao Sun², Malcolm Jones¹, Donald P. McManus¹

¹Queensland Institute of Medical Research, Brisbane, Australia, ²Ningxia Medical College, Yinchuan, Ningxia Hui Autonomous Region, China, ³National Institutes of Health Echinococcosis China Work Group, Salford, United Kingdom, ⁴National Institutes of Health Echinococcosis China Work Group, Besancon, France

8:15 a.m.

83

SPATIAL AND TEMPORAL EPIDEMIOLOGY OF ECHINOCOCCUS MULTILOCULARIS: RESULTS OF THE EUROPEAN PROJECT ECHINORISK

Peter Kern¹, Patrick Giraudoux², Thomas Romig³

¹University of Ulm, Ulm, Germany, ²University of Franche-Comté, Ulm, France, ³University of Hohenheim, Stuttgart-Hohenheim, Germany

8:30 a.m.

84

CYSTIC ECHINOCOCCOSIS (CE) IN THE HIGHLAND OF PERU: STUDY OF AGE AND GENDER EFFECT USING CHEST X-RAY, ULTRASOUND AND ENZYME-LINKED IMMUNOELECTROTRANSFER BLOT (EITB) TESTS

Cesar M. Gavidia¹, Armando E. Gonzalez¹, Luis Lopera¹, Berenice Ninaquispe¹, Eduardo Barron¹, Hugo H. Garcia², Siliva Rodriguez², Manuela R. Verastegui³, Carmen Calderon¹, Robert H. Gilman⁴, Jose A. Chabalgoity⁵

¹San Marcos University, Veterinary School, Lima, Peru, ²Instituto de Ciencias Neurológicas, Santo Toribio de Mogrovejo, Lima, Peru, ³Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD, United States, ⁵Facultad de Medicina, Universidad de la Republica, Montevideo, Uruguay

8:45 a.m.

85

WATCH AND WAIT AS AN ALTERNATIVE “TREATMENT” FOR ACTIVE AND TRANSITIONAL ECHINOCOCCAL CYSTS. SINGLE CENTER EXPERIENCE

Enrico Brunetti, Giuliana Troia, Rosario Gulizia, Anna Lisa Garlaschelli, Carlo Filice

University of Pavia, IRCCS S.Matteo, Pavia, Italy

9 a.m.

86

DIAGNOSIS AND SURGICAL TREATMENT OF CYSTIC ECHINOCOCCOSIS IN CHILDREN IN TURKMENISTAN

Esen Saklapov¹, Batyr Geldiev¹, **Oguljahan Babayeva**¹, Peter Schantz²

¹Turkmen National Medical Institute, Ashgabat, Turkmenistan, ²Division of Parasitic Diseases, National Center for Infectious Diseases, Centers for Disease Control, Atlanta, GA, United States

9:15 a.m.

87

SEROLOGICAL DIAGNOSIS OF CYSTIC HYDATID DISEASE: COMPARISON BETWEEN ELISA USING THE SYNTHETIC P176 PEPTIDE AND WESTERN BLOT USING CYSTIC FLUID

Patricia Arias¹, **Milagrytos Portocarrero**¹, Silvia Rodriguez¹, Saul Santivañez², Manuela Verastegui¹, Juan Jimenez¹, Mary L. Rodriguez¹, Hector H. Garcia¹, Armando E. Gonzalez³, Robert H. Gilman¹, Cesar M. Gavidia³, for the Cysticercosis Working Group in Peru⁴

¹Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru, ²School of Medicine, Universidad Peruana Cayetano Heredia, Lima, Peru, ³School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁴Universidad Peruana Cayetano Heredia, Lima, Peru

(ACMCIP Abstract)

9:30 a.m.

88

IN VITRO EFFICACY OF FLAVONOIDS AGAINST ECHINOCOCCUS MULTILOCULARIS AND ECHINOCOCCUS GANULOSUS LARVAL STAGES

Arunasalam Naguleswaran¹, Martin Spicher¹, Luis Ortega Mora², Jean Francois Rossignol³, **Andrew Hemphill**

¹University of Berne, Berne, Switzerland, ²Universidad Complutense de Madrid, Madrid, Spain, ³Romark Research Laboratories, Tampa, FL, United States

Scientific Session 50

Malaria – Drug Development

Lincoln East

Tuesday, December 13

8 – 9:45 a.m.

CHAIR

Jane X. Kelly

Portland VA Medical Center, Portland, OR, United States

Norman C. Waters

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

8 a.m.

89

STRONG ANTI-LIVER STAGE ACTIVITY OF A NOVEL 4(1H)-PYRIDONE ANTIMALARIAL COMPOUND

Stéphanie Hez-Deroubaix¹, Esmâ Bentchikou¹, Catherine Blanc¹, Philippe Gripon², Jacques Belghiti³, Robert W. Sauerwein⁴, Catherine Bourgouin⁵, Inigo Angulo⁶, Santiago Ferrer⁶, Domingo Gargallo-Viola⁶, Pierre Druilhe¹

¹Institut Pasteur- Biomedical Parasitology Unit, Paris, France, ²INSERM U522, Hôpital de Pontchaillou, Rennes, France, ³Service de Chirurgie Générale et Digestive, Hôpital Beaujon, Clichy, France, ⁴Department of Medical Microbiology, University of Nijmegen, Nijmegen, Netherlands, ⁵Institut Pasteur- Unité Postulante de Biologie et Génétique du Paludisme, Paris, France, ⁶GlaxoSmithKline I&D S.L. MMPD CEDD, DDW Centre, Madrid, Spain

8:15 a.m.

90

COMPARING ATOVAQUONE AND 4(1H)-PYRIDONES, ANTIMALARIAL COMPOUNDS THAT SELECTIVELY TARGET THE PARASITE MITOCHONDRION

Joanne M. Morrissey¹, Heather J. Painter¹, Francisco-Javier Gamo², Jose-Francisco Garcia-Bustos², Akhil B. Vaidya¹

¹Drexel University College of Medicine, Philadelphia, PA, United States, ²GlaxoSmithKline, Madrid, Spain

(ACMCIP Abstract)

8:30 a.m.

91

PHASE 1 STUDIES OF A CANDIDATE AMINOQUINOLINE ANTIMALARIAL (AQ-13) IN HUMANS

Fawaz Mzayek, Christiane Hadi, Haiyan Deng, Bekir H. Melek, Juan J. Lertora, Donald Krogstad

Tulane University, New Orleans, LA, United States

8:45 a.m.

92

REVERSED CHLOROQUINES: MOLECULES DESIGNED TO REVERSE THE RESISTANCE TO CQ FOUND IN P. FALCIPARUM MALARIA

David H. Peyton¹, Steven J. Burgess¹, Simeon Andrews¹, Katherine Liebman¹, Jane Xu Kelly², Michael Riscoe²

¹Portland State University, Portland, OR, United States, ²Portland VAMC, Portland, OR, United States

9 a.m.

93

TARGETING THE KAS ENZYMES OF PLASMODIUM FALCIPARUM

Sean T. Prigge¹, Patricia J. Lee², Heather Gaona², Apurba K. Bhattacharjee², Maroya Spalding¹, Jeff Z. Lu¹, Norman C. Waters²

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

9:15 a.m.

94

INTRAVENOUS ARTESUNATE: A NEW PRODUCT FOR THE TREATMENT OF SEVERE AND COMPLICATED MALARIA

Peter J. Weina¹, Adam Haeberle¹, Michael C. Lowe¹, Louis Cantilena², Wilbur K. Milhous¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Uniformed Services University of the Health Sciences, Bethesda, MD, United States

9:30 a.m.

95

ANTIMALARIAL AND ANTICANCER ACTIVITIES OF A NEW TRIOXANE DIMER

Gary Posner¹, Kristina Borstnik², Suji Xie³, Theresa A. Shapiro⁴

¹Johns Hopkins University, Johns Hopkins Malaria Institute, Baltimore, MD, United States, ²Johns Hopkins University, Baltimore, MD, United States, ³Johns Hopkins School of Medicine, Baltimore, MD, United States, ⁴Johns Hopkins School of Medicine, Johns Hopkins Malaria Institute, Baltimore, MD, United States

Symposium 51

Social and Political Issues in Tropical Medicine

Lincoln West

Tuesday, December 13 8 – 9:45 a.m.

ASTMH members 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

Frederique A. Jacquerioz

Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

Daniel G. Bausch

Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

8 a.m.

CHALLENGES TO ETHICAL INFORMED CONSENT IN DEVELOPING COUNTRIES

Don Krogstad

Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

8:25 a.m.

A HUMAN RIGHTS APPROACH TO RESEARCH IN DEVELOPING COUNTRIES

Timothy Holtz

Doctors for Global Health, Atlanta, GA, United States

8:50 a.m.

WAR AND CIVILIAN HEALTH IN IRAQ: MONITORING THE EFFECTS

Les Roberts

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

9:15 a.m.

PUBLIC HEALTH AND SOCIAL JUSTICE IN POST-KATRINA NEW ORLEANS

Daniel G. Bausch

Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

Scientific Session 52

Schistosomiasis I – Immunology and Molecular Biology

Jefferson East

Tuesday, December 13 8 – 9:45 a.m.

CHAIR

Paul J. Brindley

Tulane University, New Orleans, LA, United States

Stephen Davies.

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

8 a.m.

96

PERIPHERAL BLOOD LEVELS OF CD3⁺/CD4⁺/CD25^{HI} T REGULATORY CELLS IN HUMAN SCHISTOSOMIASIS MANSONI

Kanji Watanabe¹, Pauline N. Mwinzi², Lisa N. Steele³, Diana M. Karanja², W. Evan Secor³, Daniel G. Colley¹

¹University of Georgia, Athens, GA, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

8:15 a.m.

97

HELMINTH GLYCANS ACTIVATE SUPPRESSOR MACROPHAGES AND BIAS CD4⁺ T CELL RESPONSES TO TH2-TYPE

Donald Harn, Olga Atochina, Luis Terrazas, Maureen Drakes, Mirjam Walker

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

(ACMCIP Abstract)

8:30 a.m.

98

THE ROLE OF T CELL ACTIVATION IN SCHISTOSOME DEVELOPMENT

Erika W. Lamb, Emily T. Crow, Brian C. Schaefer, Stephen J. Davies

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

(ACMCIP Abstract)

8:45 a.m.

99

IDENTIFICATION AND ANALYSIS OF GENES INFLUENCED BY PAIRING AND SEXUAL MATURATION IN *SCHISTOSOMA MANSONI*

Jennifer M. Fitzpatrick, Karl F. Hoffmann

University of Cambridge, Cambridge, United Kingdom

9 a.m.

100

SCHISTOSOMA MANSONI TYPE II TGF-BETA RECEPTOR BINDS HOST LIGAND AND TRANSDUCES A SIGNAL THAT REGULATES A TARGET GENE IN THE SCHISTOSOME

Ahmed Osman¹, Edward G. Niles¹, Philip T. LoVerde²

¹State University of New York, Buffalo, NY, United States,

²Southwest Foundation for Biomedical Research, San Antonio, TX, United States

(ACMCIP Abstract)

9:15 a.m.

101

PATTERN RECOGNITION RECEPTORS IN BIOPHALARIA GLABRATA, THE INTERMEDIATE HOST OF SCHISTOSOMA MANSONI

Judith Humphries, Timothy Yoshino

University of Wisconsin-Madison, Madison, WI, United States

(ACMCIP Abstract)

9:30 a.m.

102

ARE SERCAS THE TARGET OF ARTEMISININ ACTIVITY AGAINST SCHISTOSOMA MANSONI?

Hilary P. Kruse, Fengli Liu, Craig Gatto, David L. Williams

Illinois State University, Normal, IL, United States

(ACMCIP Abstract)

Symposium 53

In Vivo Gene Expression Responses of Human Cells to Pathogens: A Global Experience

Jefferson West

Tuesday, December 13

8 - 9:45 a.m.

This symposium will have four representative speakers from different areas of human pathogens: RNA viruses, DNA viruses, bacteria and protozoa infections. The symposium will cover the experience studying host cell responses for different pathogens. The unique aspect of the symposium is to offer translational human research opportunities using global gene expression profiling *in vivo*. The symposium will show the expertise of few laboratories offering global gene expression data and discussion on *in vivo* human models of disease or relevant *in vitro* human cell models. It will be an opportunity to offer computational biology data analysis options and future strategies for data usage and hypothesis testing. The lessons learned in the past years and the future problems that need to be solved in this area of research will be among the objectives of this symposium.

CHAIR

Irene Bosch

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

Katherine J. Martin

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

8 a.m.

IN VIVO GENE EXPRESSION RESPONSES OF HUMAN CELLS TO PATHOGENS

Damien Chaussabel

Institute for Immunology Research, Dallas, TX, United States

8:15 a.m.

BLOOD BIOSIGNATURES FOR DIAGNOSIS OF INFECTIOUS DISEASES

Octavio Ramilo

Children's Medical Center of Dallas, Dallas, TX, United States

8:30 a.m.

MAPPING OF PARASITE GENES RESPONSIBLE FOR DIFFERENCES IN HOST RESPONSES TO DIFFERENT TOXOPLASMA STRAINS AND IDENTIFICATION OF THE HOST TRANSCRIPTION FACTORS INVOLVED

Jeroen Saeij

Stanford University School of Medicine, Stanford, CA, United States

8:45 a.m.

SURVEYING GENE EXPRESSION IN WHOLE BLOOD: HOST RESPONSES AND CLASSIFICATION OF SYSTEMIC INFECTIONS. GENOMEWIDE ANALYSIS OF THE HOST RESPONSE TO MALARIA IN KENYAN CHILDREN

Stephen Popper, Michael Griffith

Stanford University, VA Palo Alto Health Care System, Palo Alto, CA, United States

9 a.m.

A GENOME-WIDE APPROACH TO IDENTIFY ACTIVE PATHWAYS IN FLAVIVIRUS INFECTION

Rajas Warke, Kris Xhaja, Katherine Martin

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

9:15 a.m.

GENE EXPRESSION OF THE HOST RESPONSE TO LYMPHATIC FILARIASIS

Thomas B. Nutman

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

9:30 a.m.

CONCLUDING REMARKS

Jairo Antonio Rodriguez

Grupo de Parasitología y Medicina Tropical Universidad Surcolombiana, Colombia

Scientific Session 54

Malaria — Biology and Pathogenesis I

Georgetown East

Tuesday, December 13 8 – 9:45 a.m.

CHAIR

Sarah K. Volkman

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

Matthias Frank

Weill Medical College of Cornell University, New York City, NY,
United States

8 a.m.

103

ANTIGENIC VARIATION IN *PLASMODIUM FALCIPARUM* MALARIA: VAR GENE SWITCHING IN CLONAL *PLASMODIUM FALCIPARUM* CULTURES SHOWS PREFERENTIAL ACTIVATION OF SUBSETS OF VAR GENES

Matthias Frank, Ron Dzikowski, Christian Epp, Kirk Deitsch
Weill Medical College of Cornell University, New York City, NY,
United States

(ACMCIP Abstract)

8:15 a.m.

104

MULTIPLICITY OF MSP-1 19 VARIANTS AMONG CAMEROONIAN WOMEN DURING PREGNANCY

Genevieve G.A Fouda¹, Rose G.F. Leke², Jianbing Mu³,
Xiazhuan Su³, Carole Long³, Ababacar Diouf¹, Grace Sama²,
Armead Johnson¹, Diane W. Taylor¹

¹Georgetown University, Washington, DC, United States,
²Biotechnology Center, University of Yaounde I, Yaounde,
Cameroon, ³National Institutes of Health, Bethesda, MD, United
States

(ACMCIP Abstract)

8:30 a.m.

105

IDENTIFICATION OF A NOVEL PROTEIN, SAGLIN, AS A POTENTIAL SALIVARY GLAND MEDIATOR FOR *PLASMODIUM* SPOOROZITE

Mobolaji A. Okulate¹, Dário E. Kalume², Troels Kristiansen²,
Mrinal K. Bhattacharyya³, Akhilesh Pandey², Nirbhay
Kumar³

¹University of Maryland Eastern Shore, Princess Anne, MD, United
States, ²McKusick-Nathans Institute of Genetic Medicine and
Department of Biological Chemistry, Johns Hopkins School of
Medicine, Baltimore, MD, United States, ³Department of Molecular
Microbiology and Immunology, Johns Hopkins Malaria Research
Institute, Johns Hopkins Bloomberg School of Public Health,
Baltimore, MD, United States

(ACMCIP Abstract)

8:45 a.m.

106

ROLES OF 1-CYS PEROXIREDOXIN IN HEME DETOXIFICATION IN *PLASMODIUM FALCIPARUM*

Shin-ichiro Kawazu¹, Nozomu Ikenoue¹, Hitoshi Takemae²,
Kanao Komaki-Yasuda², Shigeyuki Kano¹

¹International Medical Center of Japan, Tokyo, Japan,

²PRESTO/Japan Science and Technology Agency, Saitama, Japan

9 a.m.

107

INVESTIGATING UNIQUE FEATURES OF THE V-ATPASE OF MALARIA PARASITES

Julia K. Bolt-Ulschmid, Kamal D. Laroiya, Joanne M.
Morrissey, Lawrence W. Bergman, Akhil B. Vaidya

Drexel University College of Medicine, Philadelphia, PA, United
States

(ACMCIP Abstract)

9:15 a.m.

108

RAPID AND EFFICIENT SITE-SPECIFIC INTEGRATION SYSTEM IN *PLASMODIUM FALCIPARUM* MEDIATED BY MYCOBACTERIOPHAGE BXB1 INTEGRASE

Louis J. Nkrumah¹, Pedro A. Moura¹, Graham F. Hatfull²,
William R. Jacobs³, David A. Fidock¹

¹Department of Microbiology and Immunology, Albert Einstein
College of Medicine, Bronx, NY, United States, ²Department of
Biological Sciences and Howard Hughes Medical Institute,
University of Pittsburgh, Pittsburgh, PA, United States,
³Department of Microbiology and Immunology and Howard
Hughes Medical Institute, Albert Einstein College of Medicine,
Bronx, NY, United States

9:30 a.m.

109

A HAPLOTYPE MAP FOR *PLASMODIUM FALCIPARUM*

Sarah K. Volkman¹, Pardis C. Sabeti², Daniel L. Hartl³, Bruce
Birren², Eric Lander², Dyann F. Wirth¹

¹Harvard School of Public Health, Boston, MA, United States,
²Broad Institute/MIT, Cambridge, MA, United States, ³Harvard
University, Cambridge, MA, United States

(ACMCIP Abstract)

Symposium 55

Migration through Cells and Infectivity of Apicomplexan Parasites

Georgetown West

Tuesday, December 13 8 – 9:45 a.m.

Plasmodium sporozoites and ookinetes traverse several host cells before they transform into the next development stages. The passage through cells has been also documented in other apicomplexan parasites. In this symposium, the presentations will deal with the mechanisms used by the parasites to traverse cells, and the relevance of passage through cells for achieving productive infections. The symposium will bring together scientists interested in this intriguing topic while working with different parasite models.

CHAIR

Victor Nussenzweig

NYU School of Medicine Pathology, New York, NY, United States

David Sibley

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

8 a.m.

PLASMODIUM SPOROZOITE MIGRATION THROUGH CELLS AND INFECTION

Ana Rodriguez

New York University, New York, NY, United States

8:15 a.m.

MIGRATION THROUGH CELLS BY PLASMODIUM SPOROZOITES: A CLUE TO PROPHYLAXIS?

Maria Mota

Instituto de Medicina Molecular, Portugal

8:30 a.m.

HOW DO MALARIAL PARASITES ARRIVE AT AND INVADE HEPATOCYTES?

Tomoko Ishino, Yasuo Chinzei, Masao Yuda

Mie University, School of Medicine, Mie-Pref, Japan

8:45 a.m.

POTASSIUM CONCENTRATION SHIFTS ENHANCE SPOROZOITE INFECTIVITY WHILE INHIBITING THEIR MIGRATION THROUGH CELLS

Victor Nussenzweig, Sr.

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

9 a.m.

THE REGULATION OF TOXOPLASMA MOTILITY DURING EGRESS AND INVASION

Con Beckers

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

9:15 a.m.

CONDITIONAL EXPRESSION OF MIC2 REVEALS A CENTRAL ROLE IN CELL INVASION AND HELICAL GLIDING

Vern B. Carruthers

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

9:30 a.m.

UNUSUAL ACTIN DYNAMICS CONTROL MOTILITY IN APICOMPLEXAN PARASITES

David Sibley

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

Symposium 56

Current Strategies in the Management of Leptospirosis

International Ballroom East

Tuesday, December 13 8 – 9:45 a.m.

Leptospirosis is increasingly recognized as a cause of febrile illness in all reaches of the globe. Subsequently management strategies have focused on improving the many aspects of diagnosis and clinic care. We propose to discuss epidemiology, antimicrobial therapy including *in vitro* and animal testing, approaches to vaccine development and diagnosis of acute leptospirosis.

CHAIR

Clinton K. Murray

Brooke Army Medical Center, Fort Sam Houston, TX, United States

Duane R. Hospenthal

Brooke Army Medical Center, Fort Sam Houston, TX, United States

8 a.m.

THE EPIDEMIOLOGY OF LEPTOSPIROSIS

Joseph Vinetz

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

8:30 a.m.

DIAGNOSIS OF ACUTE LEPTOSPIROSIS

Albert Ko

Centro de Pesquisas Goncalo Moniz, Salvador, Brazil

8:55 a.m.

ANTIMICROBIAL AGENTS: *IN VITRO* AND ANIMAL MODELS

Clinton K. Murray

Brooke Army Medical Center, Fort Sam Houston, TX, United States

9:20 a.m.

VACCINE DEVELOPMENT

David Haake

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

Symposium 57

Enhancing ORT: Current Status and Future Directions

International Ballroom West

Tuesday, December 13 8 – 9:45 a.m.

Due to continuous efforts of global health groups, awareness of Oral Rehydration Therapy (ORT) is relatively high in most developing countries. However, compliance with this treatment falls short, likely because ORT does not reduce diarrheal output. With fatalities due to diarrheal disease occurring in the range of two million per year, there is a need to develop and implement tools that complement the use of ORT. The Institute for OneWorld Health brings together a panel of clinicians and global health experts to review the current situation and practice of ORT in developing countries, and discuss novel interventions to combat secretory diarrheal disease. In addition, these experts will share their insight on how these new strategies can be integrated into health policies that influence the current system of care.

CHAIR

Victoria Hale

Institute for OneWorld Health, San Francisco, CA, United States

Katherine Woo

Institute for OneWorld Health, San Francisco, CA, United States

MODERATOR

Pradip Bardhan

ICDDR,B, Dhaka, Bangladesh

8 a.m.

PANELIST

Patricia Paredes

US Agency for International Development (USAID), Washington, DC, United States

8:30 a.m.

PANELIST

Chuck Szymanski

Population Services International, Washington, DC, United States

8:55 a.m.

PANELIST

Mathuram Santosham

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

Exhibit Hall Open

Exhibit Hall

Tuesday, December 13 9:30 – 10:30 a.m.

Coffee Break

Exhibit Hall

Tuesday, December 13 9:45 – 10:15 a.m.

Symposium 58

Alternative Routes for Vaccine Design Against Parasitic Diseases

Hemisphere

Tuesday, December 13 10:15 a.m. – Noon

This symposium aims to promote the incorporation of new knowledge from genomics, molecular biology and immunology in the development of more effective new vaccines against parasitic diseases. Vaccination against infectious diseases has been recognized as a cost-effective method to control infections. However, in spite of the great effort and inventiveness of several labs, the development of effective vaccines against parasitic diseases remains elusive in most of the cases. There is great hope that this situation may substantially change in the next years due to the new insights offered by the increased comprehension of the immune response and the genetic make-up of parasites and hosts. Genomic information continuously leads us to search for potential vaccine candidates, using new genomic and proteomic technology. On the other hand, vaccinologists have now recognized that the specific immunity induced by the vaccinal antigens could be improved by the antigen formulation, which also offers effective novel routes of delivery. The use of needle-free vaccination is of special interest for the design of vaccines to use in parasitic tropical diseases that most importantly affect countries of limited resources. In particular mucosal delivery could be of special relevance for those parasites that penetrate or infect at mucosal sites. Thus, in this symposium the use of new vaccine formulations that could increase vaccine efficacy, reduce the cost and refusal rates and increase their safety will be highlighted.

CHAIR

Edda L. Sciutto

Departamento de Inmunología, Instituto de Investigaciones Biomedicas, Universidad Nacional Autónoma de México (UNAM), México, D. F., México

Gabriela Rosas

Facultad de Medicina, Universidad Autónoma del Estado de Morelos, Cuernavaca, México

10:15 a.m.

THE IMPACT OF GENOMICS ON VACCINE DESIGN

Giuseppe Del Giudice

Chiron Vaccines, Siena, Italy

10:50 a.m.

THE HOLY GRAIL: PROSPECTS FOR DEVELOPMENT OF ANTI-SCHISTOSOME VACCINES

Donald P. McManus

Molecular Parasitology Laboratory, Australian Centre for International and Tropical Health and Nutrition, The Queensland Institute of Medical Research and The University of Queensland, Brisbane, Australia

11:25 a.m.

THE MULTI-EPI TOPE ANTI-CYCTICERCOSIS VACCINE FROM THE LABORATORY TO THE FIELD: COST-BENEFITS OF NEW DELIVERY SYSTEMS AND ALTERNATIVE ROUTES FOR VACCINE ADMINISTRATION

Edda L. Sciutto

Departamento de Inmunologia, Instituto de Investigaciones Biomedicas, Universidad Nacional Autonoma de Mexico (UNAM), Mexico, D. F., Mexico

Symposium 59

New Insights into the Pathogenesis of Malaria Anemia

Military

Tuesday, December 13 10:15 a.m. – Noon

In 2001-2002 the National Institute of Allergy and Infectious Diseases, the National Heart, Lung and Blood Institute and the Fogarty International Center supported research and research training grants to explore the diverse mechanisms of pathogenesis implicated in severe malaria anemia in patients in endemic areas as well as monkey models of malaria. The investigators and trainees from Kenya, Thailand and Colombia will present the research results from this initiative.

CHAIR

Barbara Sina

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

10:15 a.m.

INTRODUCTION: MALARIAL ANEMIA – A MULTIFACTORIAL HEMOTOLOGICAL SYNDROME

Douglas J. Perkins

University of Pittsburgh, Pittsburgh, PA, United States

10:20 a.m.

ERYTHROCYTE PRODUCTION AND DESTRUCTION IN MALARIAL ANEMIA: NEW METHODS FOR MEASUREMENT

Wattana Leowattana

Mahidol University, Bangkok, Thailand

10:35 a.m.

PERSISTENT ANEMIA AFTER SUCCESSFUL TREATMENT OF ACUTE FALCIPARUM MALARIA

Srivicha Krudsood

Mahidol University, Bangkok, Thailand

10:45 a.m.

ROLE OF INNATE IMMUNITY IN REGULATING THE PATHOGENESIS OF MALARIAL ANEMIA

Gordon A. Awandare

University of Pittsburgh, Pittsburgh, PA, United States

10:55 a.m.

MECHANISMS OF MALARIA ANEMIA: HUMAN AND PRIMATE STUDIES

Carolina Gallegos

Universidad del Valle, Cali, Colombia

11:10 a.m.

CLASS AND SUBCLASS ANTIBODY ANALYSIS OF IMMUNE COMPLEXES IN CHILDREN WITH SEVERE PLASMODIUM FALCIPARUM MALARIA

Erick Mibei

Kenya Medical Research Institute, Kenyatta University and the U.S. Army Medical Research Unit, Nairobi, Kenya

11:20 a.m.

GENETIC VARIATION AS A DETERMINANT OF MALARIAL ANEMIA SUSCEPTIBILITY

John Michael Ongecha

University of Pittsburgh, Pittsburgh, PA, United States

11:35 a.m.

STUDIES ON THE AGE DEPENDENT PREVALENCE OF THE SWAIN-LANGLEY AND MCCOY BLOOD GROUP POLYMORPHISMS OF COMPLEMENT RECEPTOR 1 IN WESTERN KENYA

Bernard Guyah

Kenya Medical Research Institute, Kenyatta University and the U.S. Army Medical Research Unit, Nairobi, Kenya

11:45 a.m.

EXPRESSION OF ERYTHROCYTE COMPLEMENT REGULATORY PROTEINS IN INDIVIDUALS WITH SICKLE CELL TRAIT AND NORMAL HEMOGLOBIN IN A MALARIA ENDEMIC AREA OF WESTERN KENYA

Walter Otieno

Kenya Medical Research Institute, Kenyatta University and the U.S. Army Medical Research Unit, Nairobi, Kenya

Scientific Session 60

Kinetoplastida II

Monroe East

Tuesday, December 13 10:15 a.m. – Noon

CHAIR

Abhay Satoskar

Ohio State University, Columbus, OH, United States

Stuart Kahn

Infectious Disease Research Institute, Seattle, WA, United States

Tuesday, December 13

10:15 a.m.

110

**THE FUNCTION OF T_{REG} CELLS DURING
TRYPANOSOMA CRUZI INFECTION****Maria F. Kahn**, Malcolm S. Duthie, Maria White, Stuart J. Kahn*Infectious Disease Research Institute, Seattle, WA, United States*
(ACMCIP Abstract)

10:30 a.m.

111

**ARE REGULATORY T CELLS IMPORTANT IN THE
PATHOLOGY OF HUMAN VISCERAL LEISHMANIASIS?****Susanne Nylen**¹, Radeshyam Maurya², Liv Eidsmo³, Shyam Sundar², David Sacks¹¹National Institutes of Health, Bethesda, MD, United States,
²Institute of Medical Sciences, Banaras Hindu University, Institute
of Medical Sciences, Banaras Hindu University, Institute of Medical
Sciences, Banaras Hindu University, Varanasi, India, ³Karolinska Institutet,
Stockholm, Sweden

(ACMCIP Abstract)

10:45 a.m.

112

**MALE SUSCEPTIBILITY TO LEISHMANIA
CHAGASI INFECTION: THE IMMUNOCOMPROMISING
EFFECT OF TESTOSTERONE****Alyssa M. Lovell**¹, Nilda E. Rodriguez¹, Gloria R. Monteiro²,
Eliana T. Nascimento², Selma M. Jeronimo², Mary E. Wilson¹¹University of Iowa, Iowa City, IA, United States, ²Federal University
of Rio Grande do Norte, Natal, Brazil

(ACMCIP Abstract)

11 a.m.

113

**REDUCED TH1 CELL DEVELOPMENT FOLLOWING
INFECTION WITH LEISHMANIA MEXICANA****Alice Hsu**, Phillip Scott*University of Pennsylvania, Philadelphia, PA, United States*

(ACMCIP Abstract)

11:15 a.m.

114

**IL-27R (WSX-1/TCCR) GENE DEFICIENT MICE DISPLAY
ENHANCED RESISTANCE TO LEISHMANIA DONOVANI
INFECTION BUT DEVELOP SEVERE LIVER
IMMUNOPATHOLOGY****Abhay Satoskar**¹, Lucia Rosas¹, Joseph Barbi¹, Fred
deSavage², Christopher Hunter³, Kimberly Roth¹, Anjali
Satoskar¹¹Ohio State University, Columbus, OH, United States, ²Genentech,
San Francisco, CA, United States, ³University of Pennsylvania,
Philadelphia, PA, United States

(ACMCIP Abstract)

11:30 a.m.

115

**UNRAVELING THE ROLE OF THE ARGINASE OF
LEISHMANIA MEXICANA DURING INFECTION IN
BALB/C MICE****Upasna Gaur**¹, Sigrid C. Roberts², Buddy Ullman², Mary E.
Wilson³¹University of Iowa, Iowa City, IA, United States, ²Department of
Biochemistry and Molecular Biology, Oregon Health and Science
University, Portland, OR, United States, ³Departments of Internal
Medicine and Microbiology, University of Iowa and the VA Medical
Center, Iowa City, IA, United States

(ACMCIP Abstract)

Scientific Session 61**Cestodes II**

Monroe West

Tuesday, December 13

10:15 a.m. – Noon

CHAIR

A. Clinton White*Baylor College of Medicine Houston, TX, United States***Peter Kern***University Hospital and Medical Center, University of Ulm, Ulm,
Germany*

10:15 a.m.

116

**ISOLATION AND CHARACTERIZATION OF EM492, A
SECRETORY COMPONENT FROM ECHINOCOCCUS
MULTILOCCULARIS METACESTODES POTENTIALLY
INVOLVED IN SUPPRESSION OF THE CELLULAR
IMMUNE RESPONSE**Mirjam Walker, Martin Spicher, Thomas Brunner, Bruno
Gottstein, **Andrew Hemphill***University of Berne, Berne, Switzerland*

(ACMCIP Abstract)

10:30 a.m.

117

EPILEPSY AND NEUROCYSTICERCOSIS: AN INCIDENCE STUDY IN A PERUVIAN RURAL POPULATION

Manuel V. Villaran¹, Silvia M. Montano², Christian T. Bautista³, Guillermo Gonzalez¹, Luz Maria Moyano¹, Silvia Rodriguez¹, Armando E. Gonzalez⁴, Juan J. Figueroa¹, Victor C. Tsang⁵, Robert H. Gilman⁶, Hector H. Garcia¹

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²US Naval Medical Research Center Detachment, Lima, Peru, ³US Military HIV Research Program and Henry M. Jackson Foundation, Rockville, MD, United States, ⁴School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁵Immunology Branch, Division of Parasitic Diseases, National Center for Infectious Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁶Department of International Health, Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

10:45 a.m.

118

QUALITATIVE STAKEHOLDER ANALYSIS TO APPRAISE THE INSTITUTIONAL CONTEXT OF THE ELIMINATION PROGRAM OF CYSTICERCOSIS IN PERÚ

Ursula Alarco¹, **Jaime R. Romero**², Armando E. González¹, Hector H. García², Robert H. Gilman², Fernando Llanos², Víctor C. Tsang³, Cysticercosis Working Group Peru²

¹School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

11 a.m.

119

NEUROCYSTICERCOSIS: ANTIGEN AND ANTIBODY DIAGNOSIS IN SERUM AND CEREBROSPINAL FLUID

Silvia Rodriguez¹, Javier Pretell¹, Maria Silva², Manuel Martinez¹, Armando E. Gonzalez², Robert H. Gilman³, V.C.W. Tsang⁴, L.J.S. Harrison⁵, R.M.E. Parkhouse⁶, Hector H. Garcia¹, for the Cysticercosis Working Group in Peru⁷

¹Cysticercosis Unit, Instituto Especializado en Ciencias Neurologicas, Lima, Peru, ²School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ³Departamento de Microbiología, Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Centre for Tropical Veterinary Medicine (CTVM), University of Edinburgh, Edinburgh, United Kingdom, ⁶Instituto Gulbenkian de Ciencia, Oeiras, Portugal, ⁷Universidad Peruana Cayetano Heredia, Lima, Peru

11:15 a.m.

120

DROP IN ANTIGEN LEVELS FOLLOWING SUCCESSFUL TREATMENT OF SUBARACHNOID NEUROCYSTICERCOSIS

Humberto Zamora¹, Yesenia Castillo¹, Hector H. Garcia¹, Javier Pretell¹, Silvia Rodriguez¹, Pierre Dorny², Armando E. Gonzalez³, Robert H. Gilman¹, Victor W. Tsang⁴, Jef Brandt², for the Cysticercosis Working Group in Peru⁵

¹Departamento de Microbiología, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Institute for Tropical Medicine, Antwerp, Belgium, ³School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁴Division of Parasitic Diseases, Center for Disease Control and Prevention, Atlanta, GA, United States, ⁵Universidad Peruana Cayetano Heredia, Lima, Peru

11:30 a.m.

121

BENEFICIAL USE OF METHOTREXATE IN NEUROCYSTICERCOSIS

Theodore E. Nash, Kawsar R. Talaat, Edward E. Mitre
National Institutes of Health, Bethesda, MD, United States

11:45 a.m.

122

NEWS OF PROMISING RESULTS IN THE FIELD EVALUATION OF A PHAGE RECOMBINANT VACCINE AGAINST TAENIA SOLIUM PIG CYSTICERCOSIS

Edda L. Sciutto¹, Julio Morales¹, Jose J. Martinez², Andrea Toledo¹, Karen Manoutcharian¹, Gohar Gevorgian¹, Gladis Fragosol¹, Marisela Hernández¹, Gonzalo Acero¹, Carmen Cruz¹, Jaqueline Cervantes¹, Luis F. Rodarte², Aline de Aluja², Carlos Larralde¹

¹Instituto de Investigaciones Biomedicas, Mexico, D. F., Mexico, ²Facultad de Medicina Veterinaria y Zootecnia, Mexico, D. F., Mexico

Scientific Session 62

Malaria — Artemisinin Combination Therapy

Lincoln East

Tuesday, December 13

10:15 a.m. – Noon

CHAIR

Ronan Jambou

Institut Pasteur de Dakar, Dakar, Senegal

Qin Cheng

Australian Army Malaria Institute, Brisbane, Australia

Tuesday, December 13

10:15 a.m.

123

MECHANISMS OF *P. FALCIPARUM* RESISTANCE TO ARTEMISININ DERIVATIVES: ROLE OF *PFMDR1* AMPLIFICATION AND EXPRESSION

Marina Chavchich¹, Lucia Gerena², Jennifer Peters¹, Qin Cheng¹, Dennis Kyle²

¹Australian Army Malaria Institute, Enoggera, Australia, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

10:30 a.m.

124

COMPARISON OF THE POLYMORPHISM OF [PFATP6] AND [PFTCTP] GENES IN THREE ENDEMIC COUNTRIES: CAMBODIA, FRENCH GUYANA, SENEGAL

Ronan Jambou¹, Eric Legrand², Makhtar Niang¹, Nimol Kim³, Philippe Esterre², Christianne Bouchier⁴, Thierry Fandeur³, Odile Puijalon⁴

¹Institut Pasteur de Dakar, Dakar, Senegal, ²Institut Pasteur de Guyane française, Cayenne, French Guiana, ³Institut Pasteur du Cambodge, Phnom Penh, Cambodia, ⁴Institut Pasteur, Paris, France

10:45 a.m.

125

EFFICACY AND SAFETY OF ARTEMETHER-LUMEFANTRINE VERSUS AMODIAQUINE PLUS ARTESUNATE: RANDOMISED CONTROLLED TRIAL IN UGANDA

Hasifa Burkirwa¹, Yeka Adoke¹, Nathan Bakyaita², Ambrose Talisuna², Philip J. Rosenthal³, Arthur Reingold⁴, Fred Wabwire-Mangen⁵, Grant Dorsey³, Moses R. Kanya⁶, Sarah G. Staedke³

¹Uganda Malaria Surveillance Project, Kampala, Uganda, ²Ministry of Health, Kampala, Uganda, ³University of California San Francisco, San Francisco, CA, United States, ⁴University of California, Berkeley, CA, United States, ⁵Institute of Public Health, Kampala, Uganda, ⁶Makerere University Medical School, Kampala, Uganda

11 a.m.

126

AZITHROMYCIN IN COMBINATION WITH ARTESUNATE OR QUININE FOR THE TREATMENT OF UNCOMPLICATED FALCIPARUM IN ADULTS: A RANDOMIZED PHASE 2 CLINICAL TRIAL IN THAILAND

Harald Noedl¹, Srivicha Krudsood², Kobsiri Chalermratana², Udomsak Silachamroon², Sornchai Looareesuwan², Robert S. Miller¹, Mark Fukuda¹, Krisada Jongsakul¹, Colin Ohrt³, Jacqueline Rowan⁴, Knirsch Charles⁴

¹USAMC-AFRIMS, Bangkok, Thailand, ²Hospital for Tropical Diseases, Mahidol University, Bangkok, Thailand, ³Walter Reed Army Institute of Research, Washington, DC, United States, ⁴Anti-Infectives, Pfizer Inc, New York, NY, United States

11:15 a.m.

127

A RANDOMIZED CONTROLLED TRIAL OF AZITHROMYCIN OR ARTESUNATE ADDED TO SULFADOXINE-PYRIMETHAMINE AS INTERMITTENT PRESUMPTIVE THERAPY FOR MALARIA IN PREGNANCY

Linda Kalilani¹, Innocent Mofolo², Marjorie Chaponda³, Stephen Rogerson⁴, Steven R. Meshnick¹

¹University of North Carolina, Chapel Hill, NC, United States, ²University of Malawi, College of Medicine, Blantyre, Malawi, ³University of North Carolina Project, Lilongwe, Malawi, ⁴University of Melbourne, Parkville, Australia

11:30 a.m.

128

THE EFFICACY AND TOLERABILITY OF ARTESUNATE PLUS HIGH DOSE PRIMAQUINE FOR THE TREATMENT OF *PLASMODIUM VIVAX* MALARIA IN VIETNAM

Michael D. Edstein¹, Nguyen V. Dao², Nguyen D. Ngoa², Nguyen P. Quoc², Le T. Thuy², Nguyen D. The², Bui T. Cuong³, Nguyen N. Quang³, Nguyen T. Chinh³, Tran D. Anh³, Dinh N. Duy³, Bui Dai³, Vu Q. Binh⁴, Nguyen X. Thanh⁴, Thomas Travers¹, Karl H. Rieckmann¹

¹Australian Army Malaria Institute, Brisbane, Australia, ²Military Hospital 175, Ho Chi Minh City, Viet Nam, ³Central Military Hospital 108, Hanoi, Viet Nam, ⁴Military Institute of Hygiene and Epidemiology, Hanoi, Viet Nam

11:45 a.m.

129

ALTERNATIVE TREATMENT OPTIONS FOR CHLOROQUINE RESISTANT *PLASMODIUM VIVAX* IN PAPUA, INDONESIA

R. N. Price¹, A. Ratcliff¹, H. Siswantoro², E. Kanangalem³, R. Rumaseuw⁴, E. P. Ebsworth⁴, N. Anstey¹, E. Tjitra²

¹Menzies School of Health Research, Darwin, Australia, ²National Institute of Health Research and Development, Jakarta, Indonesia, ³Dinas Kesehatan Kabupaten, Papua, Indonesia, ⁴International SOS, Timika, Indonesia

Symposium 63**Classical Genetics Meets Genomics in Malaria Research***Lincoln West*

Tuesday, December 13 10:15 a.m. – Noon

Genetic mapping using crosses to generate segregating progeny populations is proving to be an entry point into the amassing genome sequence data in human and rodent malaria parasites. Phenotypes remain the fundamental currency of malaria studies. Quantitative trait loci (QTL) mapping and linkage group selection (LGS) effectively superimpose phenotypes on the genome data by pinpointing chromosomal segments that can be sifted for key coding and regulatory polymorphisms. The integration of positional information with rapidly developing genome-wide comparative sequence, transcription, and functional data is a powerful tool for discovery of genetic mechanisms underlying complex phenotypes.

CHAIR

Michael T. Ferdig*University of Notre Dame, Notre Dame, IN, United States***Akhil B. Vaidya***Drexel University College of Medicine, Philadelphia, PA, United States*

10:15 a.m.

PAST, PRESENT AND FUTURE: MAKING CROSSES TO MAP DRUG RESISTANCE AND VIRULENCE PHENOTYPES IN *PLASMODIUM FALCIPARUM*

Thomas E. Wellems

Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

10:45 a.m.

A FAST TRACK TO FINDING GENES FOR IMPORTANT PHENOTYPES IN MALARIA

Richard Carter

University of Edinburgh, Ashworth Laboratories, Edinburgh, United Kingdom

11:10 a.m.

SEARCHING FOR *PLASMODIUM FALCIPARUM* QUANTITATIVE TRAIT LOCI DETERMINING DIFFERENTIAL INFECTIVITY TO ANOPHELES MOSQUITOES

Lisa C. Ranford-Cartwright

University of Glasgow, Glasgow, United Kingdom

11:35 a.m.

INTEGRATING GENETICS AND GENOMICS TO DISSECT COMPLEX MALARIA PHENOTYPES

Pradip K. Rathod

*University of Washington, Seattle, WA, United States***Scientific Session 64****Schistosomiasis II – Epidemiology I***Jefferson East*

Tuesday, December 13 10:15 a.m. – Noon

CHAIR

Ronald E. Blanton*Case Western Reserve University, Cleveland, OH, United States***Jennifer F. Friedman***Brown University, Providence, RI, United States*

10:15 a.m.

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***SCHISTOSOMA MANSONI* EXACERBATES HEPATOSPLENOMEGALY IN AN AREA OF MESO-ENDEMIC MALARIA TRANSMISSION**

Shona Wilson¹, Mark Booth¹, Birgitte J. Vennervald², Frances M. Jones¹, H. Curtis Kariuki³, Clifford Amaganga⁴, Hilda Kadzo⁵, Edmund Ireri⁶, Joseph K. Mwatha⁶, Gachuhi Kimani⁶, John H. Ouma⁷, Eric Muchiri³, David W. Dunne¹

¹University of Cambridge, Cambridge, United Kingdom, ²Danish Bilharziasis Laboratory, Charlottenlund, Denmark, ³Division of Vector Borne Diseases, Ministry of Health, Nairobi, Kenya, ⁴Kakamega Provincial Hospital, Kakamega, Kenya, ⁵Kenyatta National Hospital, Nairobi, Kenya, ⁶Kenya Medical Research Institute, Nairobi, Kenya, ⁷Maseno University, Kisumu, Kenya

10:30 a.m.

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HUMAN SCHISTOSOMIASIS *JAPONICA* RESULTS IN PLACENTAL INFLAMMATION, APOPTOSIS AND POOR BIRTH OUTCOMES

Jonathan D. Kurtis¹, Luz Acosta², Daria Manalo², Jemaima Yu², Mary Paz Urbina², Gretchen C. Langdon¹, Surrendra Sharma³, Remigio Olveda², Jennifer F. Friedman¹

¹Brown University, Providence, RI, United States, ²RITM, Manila, Philippines, ³Woman and Infants Hospital, Providence, RI, United States

10:45 a.m.

132

CARCINOMA OF THE BLADDER AND *SCHISTOSOMA HAEMATOBIIUM* IN GHANA

Clive Shiff¹, Jean Naples¹, Robert Veltri¹, Kwabena Bosompem², Joseph Quartey², Joseph Otchere², Cameron Marlow¹

¹Johns Hopkins University, Baltimore, MD, United States, ²Noguchi Memorial Institute for Medical Research, Accra, Ghana

11 a.m.

133

PROINFLAMMATORY CYTOKINES AND C-REACTIVE PROTEIN ARE ASSOCIATED WITH SCHISTOSOMA JAPONICUM-INFECTION AND UNDERNUTRITION IN CHILDREN, ADOLESCENTS AND YOUNG ADULTS

Hannah M. Coutinho¹, Tjalling Leenstra¹, Luz P. Acosta², Stephen T. McGarvey¹, Mario Jiz², Blanca Jarilla², Gretchen C. Langdon¹, Daria L. Manalo², Remigio M. Olveda², Jonathan D. Kurtis¹, Jennifer F. Friedman¹

¹International Health Institute, Brown University, Providence, RI, United States, ²Research Institute of Tropical Medicine, Manila, Philippines

11:15 a.m.

134

T HELPER 2 CYTOKINE RESPONSES PREDICT RESISTANCE TO REINFECTION WITH SCHISTOSOMA JAPONICUM AFTER PRAZIQUANTEL (PZQ) TREATMENT IN 7 – 30 YEAR-OLD INHABITANTS OF LEYTE, THE PHILIPPINES

Tjalling Leenstra¹, Luz P. Acosta², Gretchen C. Langdon¹, Hai-Wei Wu¹, Julie S. Solomon¹, Blanca Jarilla², Daria L. Manalo², Li Su¹, Remigio M. Olveda², Stephen T. McGarvey¹, Jennifer F. Friedman¹, Jonathan D. Kurtis¹

¹Brown University, Providence, RI, United States, ²RITM, Manila, Philippines

11:30 a.m.

135

THE USE OF STOOL EGG OR POOLED DNA SAMPLES FOR GENETIC EPIDEMIOLOGY STUDIES OF SCHISTOSOMA MANSONI

Ronald E. Blanton¹, Eliana A. Reis², Fredrick W. Thiong'o³, João F. Braghirioli², Jarbas M. Santos², Paulo S. Melo², Isabel C. Guimarães⁴, Luciano K. Silva¹, Mitermayer G. Reis²

¹Case University, Cleveland, OH, United States, ²Oswaldo Cruz Foundation, Salvador, Brazil, ³University of Nairobi, Nairobi, Kenya, ⁴Federal University of Bahia, Salvador, Brazil

(ACMCIP Abstract)

11:45 a.m.

136

THE DISPERSAL POTENTIAL OF *BULINUS NASUTUS* SNAILS IN COASTAL KENYA

Julie A. Clennon¹, Masemo A. Idd², Eric Muchiri³, Charles H. King⁴, Uriel Kitron¹

¹University of Illinois, Urbana, IL, United States, ²CWRU/DVBD/KEMRI Schistosomiasis Research Unit, Msambweni, Kenya, ³Division of Vector Borne Diseases, Ministry of Health, Nairobi, Kenya, ⁴Case Western Reserve University, Cleveland, OH, United States

Symposium 65

New Approaches to Soil-transmitted Helminth Control: A Feischrift in Honor of Professor Gerhard A. Schad

Jefferson West

Tuesday, December 13

10:15 a.m. – 12:30 p.m.

In 2001, the World Health Assembly urged its member states to control the morbidity of soil-transmitted helminth infections through frequent periodic deworming with anthelmintics (benzimidazoles [BZAs]). However the high rates of post treatment re-infection, the diminishing efficacy with frequent and periodic use of BZAs, and the possible emergence of anthelmintic drug resistance suggest that this approach could fail in areas of high endemicity. Therefore new strategies for STH control need to be explored. This symposium will examine the possibility of emerging anthelmintic drug resistance and new approaches to control that employ alternative control measures including vaccines.

CHAIR

Peter J. Hotez

George Washington University, Washington, DC, United States

10:15 a.m.

HONORING DR. GERHARD A. SCHAD

Peter J. Hotez, John Hawdon

The George Washington University, Washington, DC, United States

10:20 a.m.

ANTHELMINTHIC DRUG RESISTANCE: HAS IT ALREADY HAPPENED?

Marco Albonico

Fondazione Ivo de Carneri, Milan, Italy

10:35 a.m.

THEORETICAL BASIS OF VACCINATING AGAINST SOIL-TRANSMITTED HELMINTHS

Jeffrey Bethony

George Washington University, Washington, DC, United States

10:50 a.m.

DEVELOPING A PORTFOLIO OF ANTIGENS FOR VACCINE DEVELOPMENT

Bin Zhan

George Washington University, Washington, DC, United States

11:10 a.m.

FASHIONING AN ANTIGEN INTO A MANUFACTURED PRODUCT

Maria Elena Bottazzi

George Washington University, Washington, DC, United States

11:30 a.m.

MODELING DISTRIBUTIONS OF SOIL-TRANSMITTED HELMINTH INFECTIONS ACROSS AFRICA TO TARGET CONTROL

Simon Brooker

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

Scientific Session 66

Mosquitoes – Biochemistry, Molecular Biology and Molecular Genetics I

Georgetown East

Tuesday, December 13 10:15 a.m. – Noon

CHAIR

Donald E. Champagne

University of Georgia, Athens, GA, United States

Michelle Riehle

University of Minnesota, St Paul, MN, United States

10:15 a.m.

137

NATURAL GENETIC POLYMORPHISM OF THE TEP4 GENE IN THE ANOPHELES GAMBIAE POPULATION OF MALI

Oumou Niaré¹, Abdoulaye Adamou¹, Abdrahamane Fofana¹, Adama Sacko¹, Adama Dao¹, Abdoulaye M. Touré¹, Ousmane Koita², Sékou F. Traoré¹, Michelle M. Riehle³, Jiannong Xu³, Ken Vernick³

¹University of Bamako, Bamako, Mali, ²Faculty of Arts, Science and Technology, Bamako, Mali, ³University of Minnesota, St Paul, MN, United States

10:30 a.m.

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GENETIC IDENTIFICATION AND SCREENING OF CANDIDATE ANOPHELES GAMBIAE GENES CONTROLLING NATURAL P. FALCIPARUM RESISTANCE

Michelle M. Riehle¹, Oumou Niaré², Kyriacos Markianos³, Jun Li¹, Jiannong Xu¹, Abdoulaye M. Touré², Belco Podiougou², Moctar Diallo², Boubacar Coulibaly², Ahmed Ouatarra², Sékou F. Traoré², Ken Vernick¹

¹University of Minnesota, St Paul, MN, United States, ²University of Bamako, Bamako, Mali, ³Fred Hutchinson Cancer Research Center, Seattle, WA, United States

10:45 a.m.

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GALECTIN GENE FAMILY IN ANOPHELES GAMBIAE

Jiannong Xu, Michelle M. Riehle, Jun Li, Ken Vernick

University of Minnesota, St Paul, MN, United States

11 a.m.

140

THE IMMUNOGLOBULIN SUPERFAMILY OF ANOPHELES GAMBIAE: INSIGHTS INTO NOVEL PROTEINS IMPORTANT FOR IMMUNITY

Lindsey S. Garver, Yuemei Dong, George Dimopoulos

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

11:15 a.m.

141

DIFFERENTIAL GENE EXPRESSION PROFILES IN THE GASTRIC CAECA, ANTERIOR AND POSTERIOR MIDGUT OF LARVAL ANOPHELES GAMBIAE

Maria del Pilar Corena, Leslie VanEkeris, Carolina Ceballos, Elizabeth Jiménez, Alexandra Santoro, Paul J. Linsler

The Whitney Laboratory for Marine Bioscience, St Augustine, FL, United States

11:30 a.m.

142

THE IMPLICATION OF DOWN SYNDROME CELL ADHESION MOLECULE, DSCAM, IN THE MOSQUITO INNATE IMMUNITY

Yuemei Dong, George Dimopoulos

Johns Hopkins University, Baltimore, MD, United States

11:45 a.m.

143

CONTRASTING EFFECTS OF Aedes Aegypti SALIVA ON MURINE AND HUMAN IMMUNE EFFECTOR FUNCTIONS

Donald E. Champagne, Heather A. Wasserman

University of Georgia, Athens, GA, United States

(ACMCIP Abstract)

Symposium 67

Structural Basis of Antibody-Mediated Neutralization of Flaviviruses

Georgetown West

Tuesday, December 13 10:15 a.m. – Noon

Antibodies have been shown to play a critical role in protection from infection against flaviviruses. Recent molecular and crystallographic studies on the envelope protein of flaviviruses have provided new insights into the structural basis of antibody mediated protection against flaviviruses. This symposia will review the most current models for antibody-mediated protection and the implications for the development of immunotherapeutics and safer, more effective vaccines against flaviviruses.

CHAIR

Michael S. Diamond

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

10:15 a.m.

STRUCTURAL STUDIES OF ANTIBODY-DENGUE VIRUS AND ANTIBODY-WEST NILE VIRUS COMPLEXES

Richard Kuhn

Purdue University, West Lafayette, IN, United States

10:45 a.m.

MOLECULAR BASIS OF ANTIBODY-MEDIATED NEUTRALIZATION OF WEST NILE AND JAPANESE ENCEPHALITIS VIRUS

David Beasley

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

11:10 a.m.

STRUCTURAL BASIS OF NEUTRALIZATION OF WEST NILE AND DENGUE VIRUSES BY MONOCLONAL ANTIBODIES

Michael S. Diamond

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

11:35 a.m.

MOLECULAR MAPPING OF NEUTRALIZING ANTIBODIES AGAINST DENGUE VIRUS

John Roehrig

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

Symposium 68

Tropical Medicine and the Media

International Ballroom East

Tuesday, December 13 10:15 a.m. – Noon

Popular books, newspaper and magazine articles, and television shows can have a powerful impact on public awareness of tropical diseases and global health. Original essays and reports in medical journals also influence public opinion and policy. This interactive session will feature panelists with professional experience and insights with regard to their own works of journalism or other outreach efforts related to global health. The session will conclude with a question and answer period meant to encourage further media and advocacy efforts by ASTMH members.

CHAIR

Claire Panosian

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

10:15 a.m.

INTRODUCTION

Claire Panosian

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

10:25 a.m.

FROM RESEARCHER TO POPULAR AUTHOR: THE STORY OF MOSQUITO

Andrew Spielman

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

10:45 a.m.

FROM DOCTOR TO JOURNALIST

Susan Okie

Contributing Editor, New England Journal of Medicine, Washington, DC, United States

11:05 a.m.

MAKING A BBC MALARIA DOCUMENTARY: THE STORY OF FEVER ROAD

Kevin Hull

BBC/Films of Record, London, United Kingdom

11:25 a.m.

THE WGBH/NOVA GLOBAL HEALTH SERIES: WHAT HAPPENS NEXT?

Harvey Fineberg

Institute of Medicine, Washington, DC, United States

11:45 a.m.

DISCUSSION

Claire Panosian

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

Symposium 69

Why Current Strategies to Control Epidemic Measles Fail? A Debate for the Future

International Ballroom West

Tuesday, December 13 10:15 a.m. – Noon

Although progress has been made towards reducing measles morbidity and mortality, further action is required in endemic-epidemic contexts. Aside from the need to reinforce routine vaccination programs, a serious question emerges as to what type of action should be taken once an outbreak has begun. Current WHO recommendations suggest that outbreak response vaccination strategies may not be efficacious. This idea has recently been challenged through research into measles transmission dynamics in endemic-epidemic areas and through the demonstration of benefits from interventions, even when instituted late in the epidemic. We propose a symposium devoted to the debate about how to best control measles epidemics and how to prevent them from occurring. Our list of proposed invitees come from different perspectives and are noted experts in their respective fields.

CHAIR

Philippe J. Guerin

Epicentre, Paris, France

Rebecca F. Grais

Epicentre, Paris, France

10:15 a.m.

POLICY AND PROGRAMMATIC IMPLICATIONS OF OUTBREAK RESPONSE VACCINATION STRATEGIES

Peter Strebel

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

10:45 a.m.

DYNAMICS, PERSISTENCE AND CONTROL OF MEASLES IN HIGH BIRTH-RATE COUNTRIES

Bryan Grenfell

Pennsylvania State University, University Park, PA, United States

11:45 a.m.

LESSONS FROM OUTBREAK RESPONSE VACCINATION CAMPAIGNS: QUESTIONING CURRENT WHO RECOMMENDATIONS

Florence Fermon

Medecins Sans Frontiers, Paris, France

11:10 a.m.

ISSUES IN MEASLES CONTROL: A CASE STUDY OF DISEASE DYNAMICS IN CAMEROON

Donald S. Burke

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

Exhibit Hall Open/Box Lunches

Exhibit Hall

Tuesday, December 13 Noon – 1:30 p.m.

Poster Session A

Exhibit Hall

Tuesday, December 13 Noon – 1:15 p.m.

Arthropods/Entomology – Other

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CHARACTERIZATION OF DIFFERENTIALLY EXPRESSED MIDGE GENES IN ORBIVIRUS VECTOR POPULATIONS

Corey L. Campbell¹, William C. Wilson¹, Katja Manninen²

¹*US Department of Agriculture, Laramie, WY, United States,*

²*University of Wyoming, Laramie, WY, United States*

(ACMCIP Abstract)

145

A PCR-BASED ASSAY TO SURVEY FOR KNOCKDOWN RESISTANCE TO PYRETHROID ACARICIDES IN HUMAN SCABIES MITES (*SARCOPTES SCABIEI* VAR *HOMINIS*)

Cielo J. Pasay¹, Shelley Walton², Katja Fischer¹, Deborah Holt³, James Mc Carthy¹

¹*Queensland Institute of Medical Research, Brisbane, Queensland, Australia,*

²*Menzies School of Health Research, Casuarina, Darwin, NT, Australia,*

³*Menzies School of Health Research, Casuarina, Darwin NT, Australia*

146

IDENTIFICATION OF ABC TRANSPORTERS FROM *SARCOPTES SCABIEI* AND THEIR POTENTIAL ASSOCIATION WITH EMERGING IVERMECTIN RESISTANCE

Kate E. Mounsey¹, Deborah C. Holt¹, James McCarthy², Bart J. Currie¹, Shelley F. Walton¹

¹*Menzies School of Health Research, Casuarina, NT, Australia,*

²*Queensland Institute of Medical Research, Brisbane, QLD, Australia*

147

GENE FLOW AMONG *TRITOMA DIMIDIATA* POPULATIONS ACROSS CENTRAL AMERICA AND MEXICO

Juan J. Cáliz¹, Carlota Monroy², Patricia Dorn¹

¹*Loyola University New Orleans, New Orleans, LA, United States,*

²*Universidad San Carlos, Guatemala City, Guatemala*

Tuesday, December 13

148

EVIDENCE-BASED, COMMUNITY-DERIVED INTERVENTIONS FOR THE CONTROL OF THE DENGUE VIRUS VECTOR *Aedes Aegypti* IN MANAGUA, NICARAGUA

Jorge Arostegui¹, **Samantha N. Hammond**², Alvaro Carcamo¹, Josefina M. Coloma², Angel Balmaseda³, Neil Andersson¹, Eva Harris², CIET Dengue Group-Nicaragua¹

¹CIET International, Managua, Nicaragua, ²Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ³Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

149

PORTABLE, NONDESTRUCTIVE MEASUREMENT OF DELTAMETHRIN ON BEDNETS USING X-RAY FLUORESCENCE SPECTROMETRY

Stephen C. Smith

Centers for Disease Control and Prevention, Division of Parasitic Diseases, Atlanta, GA, United States

150

FIELD EVALUATION OF ARTHROPOD REPELLENTS AGAINST PHLEBOTOMINE SAND FLIES IN SINAI, EGYPT

Daniel E. Szumlas¹, Hanafi A. Hanafi¹, David J. Fryauff¹, Watanaporn Dheranetra², Scott W. Gordon², Moustafa Debboun²

¹U.S. Naval Medical Research Unit Number Three, Cairo, Egypt, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

151

SEASONAL VARIATIONS IN ACTIVE DISPERSAL OF NATURAL POPULATIONS OF *Triatoma infestans* (HEMIPTERA: REDUVIIDAE) IN RURAL NORTHWESTERN ARGENTINA

Gonzalo M. Vazquez Prokopec¹, Leonardo A. Ceballos¹, Paula L. Marcet¹, Maria C. Cecere¹, Victoria M. Cardinal¹, Uriel Kitron², Ricardo E. Gürtler¹

¹Laboratorio de Eco-Epidemiología, Universidad de Buenos Aires, Buenos Aires, Argentina, ²University of Illinois at Urbana Champaign, Urbana, IL, United States

152

TEMPORAL VARIATION IN WING SIZE AND SHAPE OF *Triatoma infestans* IN NORTHWESTERN ARGENTINA

Judith Schachter-Broide¹, Jean-Pierre Dujardin², Uriel Kitron³, **Ricardo E. Gürtler**¹

¹Laboratorio de Eco-Epidemiología, Universidad de Buenos Aires, Buenos Aires, Argentina, ²Unité Mixte de Recherche (UMR), Institut de Recherches pour le Développement (IRD)-Centre National de Recherche Scientifique (CNRS), Montpellier, France, ³College of Veterinary Medicine, University of Illinois at Urbana-Champaign, Urbana, IL, United States

153

SPATIO-TEMPORAL PATTERNS OF REINFESTATION BY *Triatoma infestans* FOLLOWING INSECTICIDE SPRAYING IN NEIGHBORING COMMUNITIES IN NORTHWESTERN ARGENTINA

Maria C. Cecere¹, **Gonzalo M. Vazquez**¹, Ricardo E. Gürtler¹, Uriel Kitron²

¹Laboratorio de Eco-Epidemiología, Universidad de Buenos Aires, Buenos Aires, Argentina, ²University of Illinois at Urbana-Champaign, Urbana, IL, United States

154

EVALUATION OF CHAGAS DISEASE TRANSMISSION RISK IN THE CITY OF MERIDA, YUCATAN, MEXICO, AND IDENTIFICATION OF RISK FACTORS FOR HOUSE INFESTATION BY VECTORS

Yadira Guzman-Tapia, Maria Jesus Ramirez-Sierra, Javier Escobedo-Ortegon, Eric Dumonteil

Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico

155

REPELLENCY OF FENNEL OIL-DERIVED PRODUCTS TO MOSQUITOES (DIPTERA: CULICIDAE) UNDER LABORATORY AND FIELD CONDITIONS

Kyu-Sik Chang, Hye-Eun Lee, Won-Ja Lee

Korea National Institute of Health, Seoul, Republic of Korea

Bacteria – Diarrheal Diseases/Mucosal Immunity

156

COMPARISON OF THE ANTIBODIES IN LYMPHOCYTE SUPERNATANT (ALS) AND ANTIBODY-SECRETING CELL (ASC) ASSAYS FOR MEASURING THE INTESTINAL MUCOSAL IMMUNE RESPONSE TO A NOVEL ORAL TYPHOID VACCINE (M01ZH09)

Meera V. Sreenivasan¹, **Beth D. Kirkpatrick**², Matthew D. Bentley³, Anette M. Thern³, Catherine J. Larsson², Cassandra Ventrone², Lou Bourgeois⁴

¹University of Vermont and George Washington University, Washington, DC, United States, ²University of Vermont College of Medicine, Burlington, VT, United States, ³Microscience Limited, Berkshire, United Kingdom, ⁴Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

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USE OF FECAL LACTOFERRIN IN DIFFERENTIATION BETWEEN AMOEBIC AND BACILLARY DYSENTRY

Osama Nasr Eldeen Mohamed Moustafa Moustafa, Jr.¹, Doaa El-Saied Sidahmed, Dr², Safia Mahmoud Aly, Dr², Lobna Abdel-Aziz El-Zawawi, Dr², Sonia Refaat Allam²

¹High Institute of Public Health, Alexandria, Egypt ²Faculty of Medicine, Alexandria, Egypt

158

FECAL POLYMERASE CHAIN REACTION FOR THE DIAGNOSIS OF INTESTINAL TUBERCULOSIS**Balamurugan Ramadass**, Venkataraman Subramanian, K.R John, Balakrishnan S. Ramakrishna*Christian Medical College, Vellore, India*

159

DETECTION OF SPVR GENE GIFSY-1 AND GIFSY-2 PROPHAGES IN SALMONELLA ENTERICA SEROVARS ISOLATED FROM COLOMBIAN PATIENTS**Nora M. Cardona-Castro**¹, Miryan M. Sánchez Jiménez¹, Nunzia Canu², Sergio Uzzau², Salvatore Rubino²¹*Instituto Colombiano de Medicina Tropical - CES, Sabaneta, Antioquia, Colombia*, ²*Section of Clinical and Experimental Microbiology, University of Sassari. Sassari-Italia, Italy***Bacteria – Other**

160

LEPTOSPIROSIS IN WEST UKRAINE**Emad W. Mohareb**¹, Natalia Vynograd², Caroline Fayez¹, Ken Earhart¹¹*NAMRU-3, Cairo, Egypt*, ²*L'viv National Medical University, L'viv, Ukraine*

161

STUDIES ON THE FEEDING RELATIONSHIPS WITHIN MACROINVERTEBRATES IN WATER BODIES ASSOCIATED WITH MYCOBACTERIUM ULCERANS DISEASE TRANSMISSION**Charles Quaye**¹, Dzedzom de Souza¹, Lydia Mosi¹, Joseph Amakye², Michael David Wilson¹, Daniel Agyei Boakye¹¹*Noguchi Memorial Institute for Medical Research, Accra, Ghana*, ²*Water Research Institute, Council for Scientific and Industrial Research, Accra, Ghana*

162

INFECTION BY MYCOBACTERIUM LEPRAE AND IMMUNE CHARACTERISTICS OF HOUSEHOLD CONTACTS AND LEPROSY PATIENTS FROM COLOMBIA**Nora M. Cardona-Castro**¹, Miryan M. Sánchez¹, Camilo Beltrán-Alzate¹, Rubén D. Manrique-Hernández²¹*Instituto Colombiano de Medicina Tropical - CES, Sabaneta, Antioquia, Colombia*, ²*Instituto de Ciencias de la Salud- CES, Medellín, Antioquia, Colombia*

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LABORATORY-ACQUIRED BRUCELLOSIS**Kristin B. Uhde**¹, Michelle A. Chang¹, Gina Oda², Judith I. Rosen², Mark Holodniy², Sara Cody³, Mary D. Bajani Ari¹, Sandra L. Bragg¹, Marc Fischer¹, Thomas A. Clark¹¹*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ²*VA Palo Alto Health Care System, Palo Alto, CA, United States*, ³*Santa Clara County Health Department, Palo Alto, CA, United States***Bacteria – Respiratory Infections**

164

EPIDEMIOLOGY OF TRANSMISSION OF MYCOBACTERIUM TUBERCULOSIS IN SOUTHERN MEXICO**Maria Eugenia Jimenez**¹, Maria de Lourdes Garcia¹, Alfredo Ponce-de-León², Jose Sifuentes², Leticia D. Ferreyra¹, Miriam Bobadilla², Areli Gamboa², Bulmaro Cano¹, Sergio Canizales¹, Peter Small³, Kathryn DeRiemer⁴¹*National Institute of Public Health, Cuernavaca, Morelos, Mexico*, ²*National Institute of Medical Sciences and Nutrition, Mexico, D.F., Mexico*, ³*Bill and Melinda Gates Foundation, Seattle, WA, United States*, ⁴*Stanford University, Palo Alto, CA, United States*

165

PENICILLIN BINDING PROTEINS (PBPS) IN STREPTOCOCCUS PNEUMONIAE: DATABASE SETTING UP AND APPLICATION**Loi P. Luu**, Chuong H. Nguyen, Quan K. Thai, Minh T. Thai, Duong H. Ho*Natural Science University, HCM, Viet Nam*

(ACMCIP Abstract)

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EVALUATION OF A RAPID CULTURE METHOD FOR TUBERCULOSIS DIAGNOSIS: A LATIN AMERICAN MULTI-CENTER STUDY, R1**Jaime A. Robledo**¹, Gloria I. Mejía¹, Nora Morcillo², Luis Chacón³, Mirta Camacho⁴, Julieta Luna⁵, Janeth Zurita⁶, Maritza Velasco⁷, Juan C. Palomino⁸, Anandi Martin⁸, Françoise Portaels⁸¹*Bacteriology and Mycobacteriology Unit, Corporación para Investigaciones Biológicas and Escuela de Ciencias de la Salud, Universidad Pontificia Bolivariana, Medellín, Antioquia, Colombia*, ²*Hospital Cetrángolo, Mycobacterial Regional Reference Laboratory, Buenos Aires, Argentina*, ³*Centro Nacional de Diagnóstico y Referencia, Departamento de Micobacterias, Ministerio de Salud de Nicaragua, Managua, Nicaragua*, ⁴*Instituto Nacional de Laboratorios de Salud INLASA, La Paz, Bolivia*, ⁵*Escuela Nacional de Ciencias Biológicas, Instituto Politecnico Nacional, Mexico DF., Mexico*, ⁶*Hospital Vozandes, Laboratorio de Microbiología y Tuberculosis, Quito, Ecuador*, ⁷*Instituto de Salud Pública de Chile, Sección de Micobacterias, Santiago de Chile, Chile*, ⁸*Institute of Tropical Medicine, Antwerp, Belgium*

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¹Massachusetts General Hospital, Boston, MA, United States, ²ICDDR,B: Centre for Health and Population Research, Dhaka, Bangladesh, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Dhaka Medical College Hospital, Dhaka, Bangladesh, ⁵Centers for Disease Control and Prevention, San Juan, PR, United States

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¹FMRP/Universidade de São Paulo, Ribeirão Preto-SP, Brazil, ²FCFRP/Universidade de São Paulo, Ribeirão Preto-SP, Brazil, ³FEQ/UNICAMP, Campinas - SP, Brazil

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¹Instituto de Investigaciones Biomedicas, Mexico, D. F., Mexico, ²Facultad de Medicina Veterinaria y Zootecnia, Universidad Nacional Autónoma de México, Mexico, D. F., Mexico, ³Centro de Investigación Biomédica de Oriente, Instituto Mexicano del Seguro Social, Puebla, Mexico, ⁴Laboratorios Silanes, Mexico, D. F., Mexico, ⁵Instituto Nacional de Neurología y Neurocirugía, Mexico, D. F., Mexico

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¹Instituto de Investigaciones Biomedicas, Mexico, D. F., Mexico, ²Instituto Nacional de Pediatría, Mexico, D. F., Mexico, ³Hospital Infantil de México, Mexico, D. F., Mexico, ⁴Instituto Nacional de Neurología y Neurocirugía, Mexico, D. F., Mexico

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¹University of Ulm, Ulm, Germany, ²University of Franche-Comté, Besancon, France, ³Xinjiang Hydatid Clinical Research Institute, Urumqi, China, ⁴Xinjiang Hydatid Clinical Research Institute, Urumqi, China

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Amy E. O’Connell¹, Laura A. Krepesi¹, Edward J. Pearce², D. Craig Hooper¹, David Abraham¹

¹Thomas Jefferson University, Philadelphia, PA, United States,

²University of Pennsylvania, Philadelphia, PA, United States

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¹Army Medical Surveillance Activity, Washington, DC, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

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¹Department of Microbiology, Faculty of Medicine, Kuwait City, Kuwait, ²Department of Laboratories, Farwania Hospital, Kuwait City, Kuwait, ³Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States

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¹Jahrom Medical School, Jahrom, Iran (Islamic Republic of),

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¹BIDMC/HMS, Boston, MA, United States, ²HSPH, Boston, MA, United States

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Department of Pharmacology and Therapeutics and Institute for Medical Research and Training, University of Ibadan, Ibadan, Oyo State, Nigeria

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¹New York Center for Travel and Tropical Medicine, New York, NY, United States, ²Capitol Outcomes Research, Inc., Alexandria, VA, United States

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¹Institut de Recherche pour le Développement, Dakar, Senegal, ²Centre antivenimeux, Kinshasa University, Kinshasa, Congo, Democratic Republic of the, ³Instituto de Biotecnologia, UNAM, Cuernavaca, Mexico

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¹Epicentre, Paris, France, ²Médecins Sans Frontières-France, Paris, France, ³Ministère de la Santé, Bujumbura, Burundi

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¹National Center for Infectious Diseases/Centers for Disease Control and Prevention, Atlanta, GA, United States, ²USDA-ARC, Hilo, HI, United States

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¹National Malaria Center, Phnom Penh, Cambodia, ²World Health Organization, Phnom Penh, Cambodia, ³United States Pharmacopeia / Drug Quality and Information Program, Rockville, MD, United States, ⁴National Laboratory for Drug Quality Control, Phnom Penh, Cambodia, ⁵Department of Drug and Food, Ministry of Health, Phnom Penh, Cambodia, ⁶World Health Organization Western Pacific Regional Office, Manila, Philippines

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¹Hebrew University of Jerusalem, Jerusalem, Israel, ²Charles University, Prague, Czech Republic

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¹Makerere University Medical School, Kampala, Uganda, ²Ministry of Health, Uganda, Kampala, Uganda, ³Makerere University Medical School, Dept of Biochemistry, Kampala, Uganda, ⁴University of California, San Francisco, San Francisco, CA, United States

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¹Faculty of Medicine, University of Indonesia, Jakarta, Indonesia, ²Dept. of Internal Medicine, University of Indonesia, Jakarta, Indonesia, ³SPDL Stobhil Hospital, Glasgow, Scotland, UK, ⁴DPDx, Centers for Disease Control and Prevention Government, Atlanta, GA, United States

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¹Karolinska Institutet, Stockholm, Sweden, ²Zanzibar Malaria Control Programme, Zanzibar, United Republic of Tanzania

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¹Naval Medical Research Center Detachment, Lima, Peru, ²Centro Medico Naval, Lima, Peru, ³Clinica Naval Iquitos, Iquitos, Peru

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¹Faculdade de Ciências Farmacêuticas-USP-RP, Ribeirão Preto, Brazil, ²Faculdade de Ciências Farmacêuticas-USP-RP, Ribeirão Preto, Brazil, ³Faculdade de Medicina de Ribeirão Preto-USP, Ribeirão Preto, Brazil

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¹Ifakara Health Research and Development Centre, Dares salaam, United Republic of Tanzania, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

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¹Faculty of Medicine, Alexandria University, Alexandria, Egypt, ²Microbiology Department, High Institute of Public Health, Alexandria, Egypt

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¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Ministry of Public Health and Population, Gonaives, Haiti, ³Centers for Disease Control and Prevention, Port au Prince, Haiti, ⁴Pan American Health Organization, Port au Prince, Haiti, ⁵Centers for Disease Control and Prevention, San Juan, Puerto Rico

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¹Research Sciences Directorate, U.S. Naval Medical Research Unit Number Three, Cairo, Egypt, ²Faculty of Science, Helwan University, Cairo, Egypt, ³Egyptian Company for Chemicals and Pharmaceuticals (ADWIA), Cairo, Egypt, Cairo, Egypt

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¹TechLab, Inc., Blacksburg, VA, United States, ²ICDDR,B, Dhaka, Bangladesh, ³University of Virginia, Charlottesville, VA, United States

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¹University of California Berkeley, Berkeley, CA, United States, ²Universidad San Francisco de Quito, Quito, Ecuador, ³Trinity College, Hartford, CT, United States

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¹US Naval Medical Research Center, Lima, Peru, ²Hospital 2 de Mayo, Lima, Peru, ³Hospital E. Rebagliati Martins, Lima, Peru, ⁴Hospital Naval, Lima, Peru, ⁵Naval Medical Research Center, Miami, FL, United States, ⁶Instituto Nacional de Salud, Lima, Peru, ⁷Pan American Health Organization, Washington, DC, United States

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¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²China Centers for Disease Control and Prevention, Beijing, China, ³Fujian Provincial Centers for Disease Control and Prevention, Fuzhou, China, ⁴Procter & Gamble Company, Cincinnati, OH, United States, ⁵Procter & Gamble Company, Guangzhou, China, ⁶Procter & Gamble Company, Beijing, China, ⁷ICDDR,B: Center for Health and Population Research, Dhaka, Bangladesh

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Richard Reithinger¹, Paul G. Coleman²

¹Thermosurgery Technologies Inc, Phoenix, AZ, United States, ²London School of Hygiene and Tropical Medicine, London, United Kingdom

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Instituto Nacional de Ciencias Médicas y Nutrición Salvador Zubirán, México City, Mexico

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¹Walter Reed Army Medical Center, Washington, DC, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

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¹TECHLAB, Inc., Blacksburg, VA, United States, ²LSG & Associates, Santa Monica, CA, United States, ³University of Virginia, Charlottesville, VA, United States

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¹McGill University, Montreal, QC, Canada, ²Asociacion Civil Selva Amazonica, Iquitos, Peru

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¹Centro Nacional de Control de Enfermedades Tropicales, Santo Domingo, Dominican Republic, ²Pan American Health Organization, Santo Domingo, Dominican Republic, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Berlin Institute of Tropical Medicine, Berlin, Germany, ⁵Public Health Agency of Canada, Ottawa, ON, Canada

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Fred Amimo¹, **Ole Skovmand**², Edward D. Walker³, Jim Miller³

¹Vector Biology and Control Research Centre, Kenya Medical Research Institute, Kisumu, Kenya, ²Intelligent Insect Control, Castelnau le Lez, France, ³Michigan State University, E. Lansing, MI, United States

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¹FADER / Cibic, Bogotá, Colombia, ²MinProtección Social, Bogotá, Colombia, ³Zentaris, AG, Frankfurt, Germany, ⁴ABF, Rockville, MD, United States

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Mark S. Riddle¹, Shannon D. Putnam², David Tribble³, John W. Sanders¹

¹Naval Medical Research Unit No. 3, Cairo, Egypt, ²Naval Medical Research Unit No. 2, Jakarta, Indonesia, ³Naval Medical Research Center, Silver Spring, MD, United States

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¹Brazilian Ministry of Health, Brasilia, Brazil, ²Division of International Health, OGH, Centers for Disease Control and Prevention, Atlanta, GA, United States

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¹U.S. Naval Medical Research Unit #3, Cairo, Egypt, ²Cairo University, Cairo, Egypt

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¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Universidad de Buenos Aires, Buenos Aires, Argentina, ³Center for Chagas Disease Reservoirs and Vectors, Cordoba, Argentina

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

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¹Institute of Tropical Medicine, Nagasaki University, Nagasaki-city, Japan, ²San Lazaro Hospital, Manila, Philippines, ³St. Luke's Medical Center, Quezon City, Philippines

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Francis E. Oronsaye

University of Benin School of Medicine, Benin City, Edo State, Nigeria

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Jeffrey L. Jones¹, C. Muccioli², R. Belfort Jr², G. N. Holland³, J. M. Roberts¹, C. Silveira⁴

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Department of Ophthalmology, Federal University of Sao Paulo, Pualista School of Medicine, Sao Paulo, Brazil, ³University of California, Los Angeles, Ocular Inflammatory Disease Center, the Jules Stein Eye Institute and the Department of Ophthalmology, UCLA School of Medicine, Los Angeles, CA, United States, ⁴Clinica Silveira, Erechim, Brazil

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Jennifer Davis¹, Tamara Clark¹, **Denise Njama-Meya**², Talemwa Nalugwa², Sarah Kembler¹, Sarah Staedke¹, Grant Dorsey¹

¹University of California, San Francisco, San Francisco, CA, United States, ²Makerere University, Kampala, Uganda

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David Lin, David Tompkins, Eric Spitzer, Victor Jimenez
State University of New York, Stony Brook, Stony Brook, NY, United States

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Michelle L. Gatton¹, Brian H. Kay², Peter A. Ryan²

¹University of Queensland, Herston, Australia, ²Queensland Institute of Medical Research, Herston, Australia

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Gavin John Macgregor-Skinner¹, Carlos E. Mendoza², Tom Chiller¹, Rudinio L. Acevedo², Bruce Keswick³, Stephen P. Luby¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Medical Entomology Research and Training Unit, Guatemala City, Guatemala, ³Procter & Gamble, Cincinnati, OH, United States

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Falgunee K. Parekh¹, Billie B. Davison², Jean N. Hernandez-Perez³, Donald J. Krogstad¹, OraLee H. Branch⁴

¹Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²Tulane National Primate Research Center, Covington, LA, United States, ³Universidad Peruano Cayetano Heredia Instituto de Medicina, Lima, Peru, ⁴University of Alabama at Birmingham, Birmingham, AL, United States

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Sungano Mharakurwa¹, Christopher Simoloka¹, Philip Thuma¹, Clive Shiff², David Sullivan²

¹The Malaria Institute at Macha, Choma, Zambia, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

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Tara K. Jha¹, Shyam Sundar², Chandreshwar P. Thakur³, Antony J. Sabin⁴, John Horton⁵, J. Mark Felton⁴

¹Kala-azar Research Center, Muzaffarpur, India, ²Kala-azar Medical Research Center, Banaras Hindu University, Varanasi, India, ³Balaji Uthan Sansthan, Patna, India, ⁴GlaxoSmithKline, Greenford, United Kingdom, ⁵Liverpool University, Liverpool, United Kingdom

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¹Department of Infectious Diseases, Tropical Medicine and AIDS, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands, ²Centre for Vector Biology and Control Research, Kenya Medical Research Institute, Kisumu, Kenya, ³International Health Institute and Department of Pathology and Laboratory Medicine, Brown University, Providence, RI, United States, ⁴Child and Reproductive Health Group, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

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Jean-Paul Chretien¹, David Blazes², Sheryl Bedno³, Rodney Coldren⁴, Randall Culpepper⁵, David Fryauff⁶, Jonathan Glass⁷, Michael Lewis⁸, Bonnie Smoak⁹, Joseph Malone¹

¹DoD Global Emerging Infections Surveillance and Response System, Silver Spring, MD, United States, ²US Naval Medical Research Center Detachment, Lima, Peru, ³US Army Medical Research Unit - Kenya, Nairobi, Kenya, ⁴Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁵US Army Medical Research Institute for Infectious Diseases, Frederick, MD, United States, ⁶US Navy Medical Research Unit - 3, Cairo, Egypt, ⁷US Navy Medical Research Unit - 2, Jakarta, Indonesia, ⁸Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ⁹Walter Reed Army Institute of Research, Silver Spring, MD, United States

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Jean-Paul Chretien¹, Bonnie Smoak², Joseph Malone¹

¹DoD Global Emerging Infections Surveillance and Response System, Silver Spring, MD, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

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Atef Soliman¹, Emad Mohareb¹, Caroline Fayez¹, Erkin Musabaev², Sadulla Vafakulov³, Nargiza Yarmuhamedova³, Kenneth Earhart¹

¹US Naval Medical research Unit-3, Cairo, Egypt, ²Virology Institute, Tashkent, Uzbekistan, Cairo, Uzbekistan, ³Samarqand Fever Hospital, Samarqand, Uzbekistan

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Anne Gatewood¹, Maria Diuk-Wasser¹, Sarah Yaremych-Hamer², Roberto Cortinas³, Jonas Bunikis⁴, Jean Tsao², John Brownstein⁵, Graham Hickling², Joseph Piesman⁶, Ned Walker², Uriel Kitron³, Alan Barbour⁴, Durland Fish¹

¹Yale University, New Haven, CT, United States, ²Michigan State University, East Lansing, MI, United States, ³University of Illinois, Urbana, IL, United States, ⁴University of California Irvine, Irvine, CA, United States, ⁵Children's Hospital Harvard University, Boston, MA, United States, ⁶Centers for Disease Control and Prevention-DVBID, Ft. Collins, CO, United States

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Douglas S. Walsh¹, Eduardo C. Delacruz², Rodolfo M. Abalos², Esterlina V. Tan², Allen Richards³, KS Myint⁴

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Leonard Wood Memorial Center for Leprosy Research, Cebu City, Philippines, ³Naval Medical Research Center, Silver Spring, MD, United States, ⁴US Army Medical Component, Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand

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Ólger Calderón-Arguedas¹, **Adrián Avendaño**¹, Cynthia Vargas-Castro²

¹Universidad de Costa Rica, San José, Costa Rica, ²Hospital San Rafael, Caja Costarricense de Seguro Social, Alajuela, Costa Rica

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Mayra D. Jiménez¹, Irene Bosch², Yudira Soto¹, Rosa Ramírez¹, Mayling Alvarez¹, Melkis Alfonso¹, Lisette Hermida³, Carlos Lopez³, María G. Guzmán¹

¹Institute of Tropical Medicine “Pedro Kourí”, Havana, Cuba, ²Center for Infectious Disease and Vaccine Research, University of Massachusetts Medical School, Worcester, MA, United States, ³Center for Genetic Engineering and Biotechnology, Havana, Cuba

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All India Institute of Medical Sciences, New Delhi, India

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Shanaka Rodrigo, Xia Jin, Robert C. Rose, Jacob J. Schlesinger

University of Rochester, Rochester, NY, United States

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Brett R. Ellis¹, Elephas Munene², Sharon Isern³, Moses G. Otsyula², Scott F. Michael³

¹Tulane University, New Orleans, LA, United States, ²Institute of Primate Research, Nairobi, Kenya, ³Florida Gulf Coast University, Fort Meyers, FL, United States

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Omar A. Caceres

Instituto Nacional de Salud, Lima, Peru

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Andrea Valks¹, Norton Beth¹, Greg Hafner¹, **Barbara Hanson**², Stuart Hazell¹

¹Panbio, Ltd., Brisbane, Australia, ²Panbio, Inc., Columbia, MD, United States

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Emily S. Jentes¹, Joseph Fair¹, Augustine Goba², Alpha Bah², Michel Tounkara², Mohamed C. Diallo², Mamadi Coulibaly², Daniel G. Bausch¹

¹Tulane University, New Orleans, LA, United States, ²Centre International de Recherche sur les Infections Tropicales, N'zerekore, Guinea

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Magdi D. Saad¹, Emad William Mohareb¹, Ahmed Al-Jaufy², Abdelhakeem A. Alkohani³, Hashem A. Elzein⁴, Hassan Elbushra⁵, Sameh Safwat¹, Emad M. Labib¹, Kenneth C. Earhart¹

¹U.S. NAMRU-3, Cairo, Egypt, ²Faculty of Medicine, Sana'a University, Sana'a, Yemen, ³National Center for Epidemiology and Diseases Surveillance, Ministry of Health, Sana'a, Yemen, ⁴World Health Organization, Sana'a, Yemen, ⁵World Health Organization, Eastern Mediterranean Regional Office, Cairo, Egypt

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Enrique Mamani¹, Omar Caceres¹, María Garcia¹, Victoria Gutierrez¹, Cesar Cabezas¹, Eva Harris²

¹National Institute of Health - Ministry of Health of Peru, Lima, Peru, ²Division of Infectious Diseases, School of Public Health, University of California, Berkeley, CA, United States

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Angel Balmaseda¹, Samantha Hammond², Yolanda Tellez¹, Saira Saborío¹, Juan Carlos Mercado¹, Celia Machado¹, Juan Carlos Matute¹, Leonel Pérez¹, Maria Angeles Pérez³, Sheyla Silva³, Crisanta Rocha³, Eva Harris²

¹Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, ²Division of Infectious Diseases, School of Public Health, University of California, Berkeley, CA, United States, ³Hospital Infantil Manuel Jesús de Rivera, Managua, Nicaragua

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Karen Clyde, Eva Harris

Division of Infectious Diseases, School of Public Health, University of California, Berkeley, CA, United States

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Dianna Edgil, Charlotta Polacek, Eva Harris

Division of Infectious Diseases, School of Public Health, University of California, Berkeley, CA, United States

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

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Joan L. Aron¹, Roger S. Pulwarty², Dave D. Chadee³

¹Science Communication Studies, Columbia, MD, United States, ²National Oceanic and Atmospheric Administration / University of Colorado, Climate Diagnostics Center, Boulder, CO, United States, ³Department of Life Sciences, University of the West Indies, St. Augustine, Trinidad and Tobago

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Aurimar Ayala-López¹, Mark Beatty¹, Gary G. Clark¹, Yaisa M. Román², Carlos A. Morell²

¹Centers for Disease Control and Prevention, San Juan, PR, United States, ²Triple-S, Inc. Statistical Research and Analysis Department Technical Services Division, San Juan, PR, United States

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¹Center for Infectious Disease and Vaccine Research, University of Massachusetts Medical School, Worcester, MA, United States, ²Queen Sirikit National Institute of Child Health, Bangkok, Thailand, ³Department of Virology, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

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Susana Widjaja¹, Patrick J. Blair¹, Andrew Jeremenjenko¹, Timothy Burgess², Gary T. Brice¹

¹Navy Medical Research Unit-2, Jakarta, Indonesia, ²Navy Medical Research Center, Silver Spring, MD, United States

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Sanofi Pasteur, Marcy-L'Etoile, France

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¹US Naval Medical Research Unit 3, Cairo, Egypt, ²World Health Organization, Eastern Mediterranean Regional Office, Sanaa, Yemen, ³National Center for Epidemiology and Diseases surveillance, Ministry of Health, Sanaa, Yemen, ⁴World Health Organization, Eastern Mediterranean Regional Office, Cairo, Egypt, ⁵US Naval Medical Research Unit 3, Cairo, Egypt; Centers for Disease Control and Prevention, Atlanta, GA, United States

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¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²Oficina General de Epidemiologia, Lima, Peru, ³Instituto Nacional de Salud, Ministerio de Salud, Peru, ⁴Oficina General de Epidemiologia, Ministerio de Salud, Peru, ⁵Centro de Salud de Comas, Ministerio de Salud, Peru, ⁶U.S. Naval Medical Research Center Detachment, APO AA, United States

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¹Lardidev/Biomed-Universidad de Carabobo/Corposalud Aragua, Maracay, Venezuela, ²Biomed-Universidad de Carabobo, Maracay, Venezuela, ³U.S. Naval Medical Research Center Detachment, Lima, Peru, ⁴Hospital Central de Maracay/Corposalud Aragua, Maracay, Venezuela, ⁵Center for Deployment Health Research, Naval Health Research Center, San Diego, CA, United States

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Luciano K. Silva¹, Maria Glória Teixeira², Katrina A. Goddard¹, Mitermayer G. Reis³, Ronald E. Blanton¹

¹Case University, Cleveland, OH, United States, ²Instituto de Saúde Coletiva-UFBA, Salvador-BA, Brazil, ³Oswaldo Cruz Foundation, Salvador-BA, Brazil

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Cesar Cabezas¹, Lely Solari¹, Elisa Solano¹, Suarez Victor¹, Walter Leon-Cueto¹, Miguel Cobos¹, Mauricio Rubin², Cubillas Luis², Luis Fuentes Tafur²

¹National Institutes of Health Peru, Lima, Peru, ²DISA Lima Norte, Lima, Peru

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Jonathan Glass

US NAMRU-2, FPO, AE, United States

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Central Veterinary Laboratory, Kathmandu, Nepal

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USAMRIID, Frederick, MD, United States

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Ebenezer Tumban, Jenna Painta, William B. Lott

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

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

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Michael A. Johansson¹, Scott M. Shone¹, Andrew S. Walsh¹, Cyrus R. Lesser², Douglas E. Norris¹, Gregory E. Glass¹

¹Johns Hopkins School of Public Health, Baltimore, MD, United States, ²Maryland Department of Agriculture, Annapolis, MD, United States

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Melissa D. Sanchez¹, Theodore C. Pierson¹, Fabio Del Piero², Ann H. Davidson³, Josie L. Traub-Dargatz³, Sheri L. Hanna¹, James A. Hoxie⁴, Robert W. Doms¹

¹Department of Microbiology, University of Pennsylvania, Philadelphia, PA, United States, ²Department of Pathobiology-School of Veterinary Medicine, University of Pennsylvania, Philadelphia, PA, United States, ³Department of Clinical Sciences, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, CO, United States, ⁴Department of Medicine, Hematology-Oncology Division, University of Pennsylvania, Philadelphia, PA, United States

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Erik K. Hofmeister¹, Rob Porter²

¹USGS NWHC, Madison, WI, United States, ²Wisconsin Veterinary Diagnostic Laboratory, Madison, WI, United States

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Maria E. Morales-Betoulle¹, Herber Morales², Bradley J. Blitvich³, Ann M. Powers⁴, Ann Davis⁵, Robert Klein⁶, Celia Córdón-Rosales¹

¹Universidad del Valle de Guatemala, Guatemala, Guatemala, ²Ministry of Agriculture and Livestock, Guatemala, Guatemala, ³Colorado State University, Fort Collins, CO, United States, ⁴Centers for Disease Control and Prevention, Fort Collins, CO, United States, ⁵United States Department of Agriculture, Guatemala, Guatemala, ⁶Centers for Disease Control and Prevention, Guatemala, Guatemala

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Ann R. Hunt, G.-J. Chang, John T. Roehrig

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

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Yongqing Jia, Alan P. Dupuis II, Kristen A. Bernard, Mary A. Franke, Joseph G. Maffei, Greta A. Jerzak, Elizabeth B. Kauffman, **Laura D. Kramer**

Wadsworth Center, New York State Department of Health, Albany, NY, United States

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Angelle D. LaBeaud¹, Chris Kippes², Jacek M. Mazurek³, Charles H. King¹, Anna M. Mandalakas⁴

¹Case Western Reserve University: Center for Global Health and Diseases, Cleveland, OH, United States, ²Cuyahoga County Board of Health, Cleveland, OH, United States, ³Centers for Disease Control, Morgantown, WV, United States, ⁴Case Western Reserve University: Department of Pediatrics, Cleveland, OH, United States

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Francesc Puig-Basagoiti¹, Tia S. Deas², Ping Ren¹, Mark Tilgner¹, Pei-Yong Shi¹

¹Wadsworth Center, New York State Department of Health, Albany, NY, United States, ²Department of Biomedical Sciences, University at Albany, State University of New York, Albany, NY, United States

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Susan J. Wong¹, A. P. Dupuis II¹, A. M. Kilpatrick², P. P. Marra³, A. L. Glaser⁴, T. Victor¹, P. Daszak², L. D. Kramer¹

¹Wadsworth Center NYSDOH, Albany, NY, United States, ²Consortium for Conservation Medicine, New York, NY, United States, ³Smithsonian Environmental Research Center, Edgewater, MD, United States, ⁴NYS College of Veterinary Medicine, Cornell University, Ithaca, NY, United States

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WEST NILE VIRUS PRODUCED IN HUMAN CELLS SELECTIVELY INFECTS CELLS EXPRESSING DC-SIGNR, BUT NOT CELLS EXPRESSING DC-SIGN

Carl W. Davis¹, Hai-Yen Nguyen¹, Sheri L. Hanna¹, Melissa D. Sánchez¹, Robert W. Doms¹, Theodore C. Pierson²

¹University of Pennsylvania School of Medicine, Philadelphia, PA, United States, ²Laboratory of Viral Diseases, National Institutes of Health, Bethesda, MD, United States

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Sammy M. Njenga¹, Njeri Wamae¹, Charles Mwandawiro¹, David Molyneux²

¹Kenya Medical Research Institute, Nairobi, Kenya, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom

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Simon Townson¹, Andrew Freeman¹, Angela Harris¹, Achim Harder²

¹Northwick Park Institute for Medical Research, Harrow, United Kingdom, ²Bayer HealthCare AG, Monheim, Germany

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¹University of Mali School of Medicine, Pharmacy, and Dentistry, Bamako, Mali, ²National Institutes of Health, Bethesda, MD, United States

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Kenneth N. Opara¹, Olakunle B. Fagbemi², Asuquo Ekwe³, Daniel M. Okenu⁴

¹University of Uyo Nigeria, Uyo, Nigeria, ²University of Ibadan Nigeria, Ibadan, Nigeria, ³Ministry of Health Cross River State Nigeria, Calabar, Nigeria, ⁴Emory University School of Medicine, Atlanta, GA, United States

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Khaled M. Abd Elaziz¹, Maged El-Setouhy¹, Hanan Helmy², Reda M. Ramzy², Gary J. Weil³

¹Faculty of Medicine-Ain Shams University, Cairo, Egypt, ²Research and Training Center on Vector of Diseases-Ain Shams University, Cairo, Egypt, ³Washington University School of Medicine, Saint Louis, MO, United States

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EVALUATION OF THE BRUGIARAPID™ CASSETTE

David Reeve, Wayne Melrose

James Cook University, Townsville, Australia

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Bethel K. Kwansa-Bentum, Fred Aboagye-Antwi, Evans D. Glah, Philip Doku, Sampson Otoo, Haruna Abdul, Michael D. Wilson, Daniel A. Boakye

Noguchi Memorial Institute for Medical Research, Accra, Ghana

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A SURVEY OF CURRENT TREATMENT PRACTICES AND BURDEN OF LYMPHEDEMA IN TOGO

Els Mathieu¹, Stephanie Richard¹, David Addiss¹, Yao Sodahlon²

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

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Manish Ramesh, Thiruchandurai V. Rajan

UConn Health Center, Farmington, CT, United States

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L3-L4 CUTICLES AND L3 EXCRETORY/SECRETORY PRODUCTS CAN PRIME MICE FOR AN ACCELERATED CLEARANCE OF BRUGIAN INFECTION

Yashodhara Dash, Thiruchandurai V. Rajan

UConn Health Center, Farmington, CT, United States

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Ben-wen Li, Amy C. Rush, Gary J. Weil

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

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Helminths — Nematodes — Intestinal and Tissue Helminths

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Jesus A. Benitez¹, Carmen Sierra¹, **Alfonso J. Rodriguez-Morales**²

¹DGSACS-Ministry of Health, Maracay, Venezuela, ²Universidad de Los Andes, Trujillo, Venezuela

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POLYPARASITISM AND CHILDHOOD ANEMIA: EVIDENCE OF SYNERGISTIC AND ANTAGONISTIC INTERACTIONS BETWEEN HELMINTH SPECIES IN MULTIPLY INFECTED CHILDREN

Amara E. Ezeamama¹, Stephen T. McGarvey¹, Luz P. Acosta², Jonathan D. Kurtis¹, Vincent Mor¹, Remy M. Olveda², Jennifer F. Friedman¹

¹Brown University, Providence, RI, United States, ²Research Institute of Tropical Medicine, Manila, Philippines

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Renee Larocque¹, Wilfredo Martin Casapia², Eduardo Gotuzzo³, Theresa W. Gyorkos¹

¹McGill University, Montreal, QC, Canada, ²Asociacion Civil Selva Amazonica, Iquitos, Peru, ³Universidad Peruana Cayetano Heredia, Lima, Peru

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Nicholas N. Midzi, D. Sangwe, S. Zinyowera, K. Brower, A. Munatsi, E. Gomo, S. Mutambu, S. Munyati, G. Woelk, T. Mduluzi

National Institute of Health Research, Harare, Zimbabwe

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Eleuza R. Machado¹, Elaine Vicente Lourenço², Marlene Tiduko Ueta³, Lúcia Paula¹, Daniela Carlos¹, Fernanda Anibal Freitas¹, Érika Gonçalves Silva¹, Carlos Artério Sorgi¹, Lúcia Helena Faccioli¹

¹Faculdade de Ciências Farmacêuticas de Ribeirão Preto, Ribeirão Preto, Brazil, ²Faculdade de Medicina de Ribeirão Preto, Ribeirão Preto, Brazil, ³Universidade Estadual de Campinas, Campinas, Brazil

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JP McCarter¹, M. Mitreva¹, M. C. Wendl¹, J. Martin¹, T. Wylie¹, J. Parkinson², M. Blaxter³, R.H. Waterston⁴, JP McCarter⁵

¹Genome Sequencing Center, Washington University, St. Louis, MO, United States, ²Hospital for Sick Children, Toronto, ON, Canada, ³University of Edinburgh, United Kingdom, ⁴University of Washington, Seattle, WA, United States, ⁵Divergence, Inc., St. Louis, MO, United States

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Hafeez U. Rehman, Raouf Arafat, Marcia L. Wolverton

Houston Department of Health and Human Services, Houston, TX, United States

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All India Institute of Medical Sciences, New Delhi, India

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Ivette J. Lorenzana¹, Alberto Laguna-Torres², Gladys Carrion², Wendy Murillo¹, Leda Parham¹, Cesar Nunez³, Jose Sanchez⁴, Jean Carr⁵, Jim Olson⁴

¹University of Honduras, Tegucigalpa, Honduras, ²U.S. Naval Medical Research Center Detachment, Lima, Peru, ³AIDS Action of Central America Project (PASCA), Guatemala, Guatemala, ⁴U.S. Military HIV Research Program and Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Rockville, MD, United States, ⁵Military HIV Research Program and Henry M Jackson Foundation for the Advancement of Military Medicine, Rockville, MD, United States

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APPLICATION OF NESTED PCR FOR IDENTIFICATION OF CAUSATIVE AGENTS OF CUTANEOUS AND VISCERAL LEISHMANIASIS IN ARCHIVED GAIMSA STAINED SLIDES

Mohammad H. Motazedian, Mehdi Karamian, Sadreddin Ardehali, Mohammad Vasei

Shiraz Medicine Faculty, Shiraz, Iran (Islamic Republic of)

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Raymond L. Houghton¹, Yvonne Y. Stevens¹, Jeff Guderian², Masahiko Okamoto¹, Mazbahul Kabir¹, Patricia Arauz-Ruiz³, Kristen Visona³, Steven G. Reed², David A. Leiby⁵, Syamal Raychaudhuri¹

¹InBios International Inc, Seattle, WA, United States, ²IDRI, Seattle, WA, United States, ³LSU-ICMRT, San Jose, Costa Rica, ⁴American Red Cross, Rockville, MD, United States

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Shyam Sundar

Institute of Medical Sciences, Banaras Hindu University, Varanasi, India

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Ohio State University College of Pharmacy, Columbus, OH, United States

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GENETIC AND ENVIRONMENTAL CONTRIBUTIONS TO VARIATION IN SEROPOSITIVITY TO *TRYPANOSOMA CRUZI* IN A BABOON POPULATION

Jeff T. Williams, Gene B. Hubbard, John L. VandeBerg
Southwest Foundation for Biomedical Research, San Antonio, TX, United States

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TRANSMISSION OF LEISHMANIASIS THROUGH THE ALIMENTARY TRACT IN BALB/C SYNGENEIC MICE GAVAGED PARASITE PROMASTIGOTES

Raja' Fakhoury Makki¹, **Nuha Nuwayri-Salti**², Hania Nakkash Shmaissi²

¹Beirut Arab University, Beirut, Lebanon, ²American University of Beirut, Beirut, Lebanon

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Balaraju Venkat Subba Raju¹, Ruchi Singh¹, Gannavaram Sreenivas¹, Robert Duncan², Hira Lal Nakhasi², Poonam Salotra¹

¹Institute Of Pathology (ICMR), New Delhi, India, ²Center for Biologics Evaluation and Research, Food and Drug Administration, Bethesda, MD, United States

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IMMUNOLOGICAL DETERMINANTS OF DISEASE PATHOGENESIS IN INDIAN KALA AZAR (KA) AND POST KALA AZAR DERMAL LEISHMANIASIS (PKDL)

Nasim Akhtar Ansari¹, Venkatesh Ramesh², Poonam Salotra¹

¹Institute Of Pathology(ICMR), New Delhi, India, ²Department of Dermatology, Safdarjung Hospital, New Delhi, India

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THE STUDY OF THE ROLE OF ACRIFLAVIN IN INHIBITION OF THE PROLIFERATION OF *TRYPANOSOMA LEWISI* BY INDUCING APOPTOSIS WITH SPECIFIC BINDING AFFINITY TO KDNA OF THE PARASITE *IN VITRO*

Solomon T. Ghebregziabher, Dino Vaira
University of Bologna, Bologna, Italy

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CARBOXY-TERMINAL TAIL OF *LEISHMANIA DONOVANI* PROTON PUMPS REGULATES THEIR ACTIVITY IN A YEAST COMPLEMENTATION SYSTEM

Daniela Grigore, Chris Meade

University of Mississippi Medical Center, Jackson, MS, United States

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ESTROGEN-MEDIATED NITRIC OXIDE PRODUCTION IS ASSOCIATED WITH A FAVORABLE CLINICAL AND PARASITOLOGICAL RESPONSE TO *LEISHMANIA* DURING PREGNANCY

Elvia Y. Osorio Esparza¹, Diana L. Bonilla¹, Peter C. Melby², Bruno L. Travi²

¹*Centro Internacional de Entrenamiento e Investigaciones Médicas (CIDEIM), Cali-Valle del Cauca, Colombia,* ²*Medical Service, Department of Veterans Affairs Medical Center, San Antonio, Texas, TX, United States*

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CONGENITAL TRANSMISSION IN EXPERIMENTAL LEISHMANIASIS

Elvia Y. Osorio Esparza¹, Diana L. Bonilla¹, Alex G. Peniche¹, Bruno L. Travi²

¹*Centro Internacional de Entrenamiento e Investigaciones Médicas (CIDEIM), Cali-Valle del Cauca, Colombia,* ²*Medical Service, Department of Veterans Affairs Medical Center, South Texas Veterans Health Care System, San Antonio, Texas, TX, United States*

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THE ROLE OF NEUTROPHILS IN AMERICAN CUTANEOUS LEISHMANIASIS

Diana L. Bonilla¹, Bruno L. Travi², Elvia Y. Osorio Esparza¹

¹*Centro Internacional de Entrenamiento e Investigaciones Médicas (CIDEIM), Cali-Valle del Cauca, Colombia,* ²*Medical Service, Department of Veterans Affairs Medical Center, South Texas Veterans Health Care System, San Antonio, Texas, TX, United States*

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EFFICACY OF VIRAL VECTOR VACCINATION AGAINST *TRYPANOSOMA CRUZI* INFECTION

Yasushi Miyahira¹, Yasuhiro Takashima², Seiki Kobayashi³, Yasunobu Matsumoto², Tsutomu Takeuchi³, Hideo Yagita¹, Ko Okumura¹, Hideoki Ogawa¹

¹*Juntendo University Sch. Med., Tokyo, Japan,* ²*Graduate School of Agricultural and Life Sciences, University of Tokyo, Tokyo, Japan,* ³*Keio University Sch. Med., Tokyo, Japan*

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EVALUATION OF THE THERAPEUTIC EFFICACY OF DNA VACCINES ENCODING DIFFERENT ANTIGENS FOR THE IMMUNOTHERAPY OF *TRYPANOSOMA CRUZI* INFECTION IN MICE

Gilma Sanchez-Burgos, Javier Escobedo-Ortegon, Maria Jesus Ramirez-Sierra, Eric Dumonteil

Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico (ACMCIP Abstract)

Malaria — Biology and Pathogenesis

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ESTABLISHMENT OF ERYTHROPOIETIC CELLS *IN VITRO* FOR CONTINUOUS CULTURE OF *PLASMODIUM VIVAX*

Tasane Panichakul¹, Jetsumon Sattabongkot², Kesinee Chotivanich¹, Liwang Cui³, Rachanee Udomsangpetch⁴

¹*Department of Clinical Tropical Medicine, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand,* ²*Department of Entomology, AFRIMS, Bangkok, Thailand,* ³*Department of Entomology, Pennsylvania State University, Philadelphia, PA, United States,* ⁴*Department of Pathobiology, Faculty of Science, Mahidol University, Bangkok, Thailand*

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Davis Nwakanma¹, Sam Duny², Musa Jawara², Amani Kheir³, Margaret Pinder², Margaret Mackinnon³, Paul Milligan², David Walliker³, **Hamza A. Babiker**⁴

¹*The Medical Research Council Laboratories, Banjul, Gambia,* ²*The Medical Research Council Laboratories, Banjul, Gambia,* ³*Edinburgh University, Edinburgh, United Kingdom,* ⁴*Sultan Qaboos University, Al-khod, Oman*

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Ayola A. Adegnika¹, Jaco Verweij², Sanders K. Chai¹, Selidji T. Agnandji¹, Lutz PH Breitling¹, Adrian Luty¹, Saadou Issifou¹, Peter G. Kremsner¹, Maria Yazdanbakhsh¹

¹*Medical Research Unit of Albert Schweitzer Hospital, Lambarene, Gabon,* ²*Department of Parasitology, Leiden University Medical Center, Leiden, The Netherlands, Leiden, Netherlands*

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ASSOCIATION OF A PROMOTER POLYMORPHISM IN THE GENE ENCODING INTERLEUKIN-12 P40 (IL12B) WITH CEREBRAL MALARIA IN A POPULATION LIVING IN BAMAKO

Innocent Safeukui¹, Sandrine Marquet², Belco Poudiougou³, Abdoulaye Traore³, Modibo Keita³, Diamori Traore³, Mamadou Diakite³, Mamadou Cisse⁴, Marouf Keita⁴, Alain Dessein², Ogobara Doumbo³

¹Laboratoire d'Immunologie et Parasitologie, University Bordeaux II, France, ²Inserm U 399, Faculté de Médecine, Marseilles, France, ³Malaria Research and Training Centre, Faculty of Medicine, Pharmacy and Odonto-Stomatology, Bamako, Mali, ⁴Paediatric wards, Gabriel Touré Hospital, Bamako, Mali

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GENETIC DISSECTION OF DIFFERENTIAL GROWTH RATES IN *PLASMODIUM FALCIPARUM* IN CHLOROQUINE RESISTANT AND SENSITIVE PROGENY CLONES

Heather B. Reilly, Hongjian Wang, Kyle Wong, Robert F. Easley, Michael T. Ferdig

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

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EVALUATION OF THE IMPACT OF HELMINTH CO-INFECTION ON MALARIA TRANSMISSION IN A MURINE MODEL

Gregory S. Noland¹, Alexandre Morrot¹, Bernard Fried², Thaddeus K. Graczyk¹, Fidel Zavala¹, Nirbhay Kumar¹

¹Johns Hopkins Malaria Research Institute, Department of Molecular Microbiology and Immunology, Bloomberg School of Public Health, Baltimore, MD, United States, ²Department of Biology, Lafayette College, Easton, PA, United States

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TREATMENT WITH CHLOROQUINE INCREASES APOPTOSIS AND DECREASES IL-10 EXPRESSION IN BALB/C MICE INFECTED WITH *PLASMODIUM YOELII* 17XL

Martha Legorreta-Herrera, Adriana Ramos-Avila, Jose Luis Ventura-Gallegos, Jose Francisco Gil-Becerra, Armando Cervantes-Sandoval, Alejandro Zentella-Dehesa

Universidad Nacional Autonoma de Mexico, Distrito Federal, Mexico

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INVESTIGATING FACTORS PROMOTING ERYTHROCYTIC GROWTH OF *PLASMODIUM FALCIPARUM*

Hiroko Asahi

Department of Parasitology, National Institute of Infectious Diseases, Tokyo, Japan

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Jonathan K. Stiles¹, Venkatachalam Udhayakumar², Renee Ned², M. Shukla³, Vidhan Jain⁴, Charles Newton⁵, Henry B. Armah¹, Avinash C. Nagpal³, M. Joel³, Neeru Singh⁶

¹Morehouse School of Medicine, Atlanta, GA, United States, ²Centers for Disease Control (National Center for Infectious Diseases/Centers for Disease Control and Prevention), Atlanta, GA, United States, ³RMRCT, Jabalpur, Jabalpur, India, ⁴Regional Medical Research Centre for Tribals (RMRCT/MRC), Jabalpur, India, ⁵Kenya Medical Research Institute, Kilifi, Kenya, ⁶Regional Medical Research Centre for Tribals (RMRCT) MRC, Jabalpur, India

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INDUCTION OF MAPK SIGNALING AND GENE EXPRESSION CHANGES IN SYNCYTIOTROPHOBLAST FOLLOWING BINDING OF CYTOADHERENT *PLASMODIUM FALCIPARUM*

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

University of Georgia, Athens, GA, United States

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NITRIC OXIDE SYNTHASE TYPE 2 PROMOTER POLYMORPHISM G-954C AND MALARIAL ANEMIA IN CHILDREN IN A RURAL HOLOENDEMIC AREA OF *FALCIPARUM* MALARIA

Collins Ouma¹, **Chris Keller**², Dorothy Opondo¹, Tom Were¹, Richard Otieno¹, Michael F. Otieno³, Alloys S. Orago⁴, John Michael Ong'echa¹, Robert E. Ferrell⁵, Douglas J. Perkins²

¹University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, ²Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, ³Kenyatta University, Nairobi, Kenya, ⁴National AIDS Control Council, Nairobi, Kenya, ⁵Department of Genetics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States

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ASSOCIATION OF FC γ RECEPTOR IIA (CD32) POLYMORPHISM WITH MALARIAL ANEMIA AND HIGH-DENSITY PARASITEMIA IN INFANTS AND YOUNG CHILDREN

Collins Ouma¹, **Chris Keller**², Dorothy Opondo¹, Tom Were¹, Richard O. Otieno¹, Michael F. Otieno³, Alloys S. Orago⁴, John Michael Ong'echa¹, Robert E. Ferrell⁵, Douglas J. Perkins²

¹University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, ²Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, ³Kenyatta University, Nairobi, Kenya, ⁴National AIDS Control Council, Nairobi, Kenya, ⁵Department of Genetics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States

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REGULATION OF ERYTHROID DEVELOPMENT IN CD34+ STEM CELLS IN RESPONSE TO *PLASMODIUM FALCIPARUM*-INDUCED INFLAMMATORY MEDIATORS

Gordon A. Awandare, Paolo Piazza, Daniel O. Ochiel, Gregory Davenport, Christopher C. Keller, Charles Rinaldo, Douglas J. Perkins

University of Pittsburgh, Pittsburgh, PA, United States

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Malaria – Chemotherapy

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COMPARATIVE EFFICACY OF CHLOROQUINE AND PYRIMETHAMINE-SULFADOXINE FOR UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA AND IMPACT ON GAMETOCYTE CARRIAGE RATES IN UNDER-FIVE YEAR OLDS IN AN ENDEMIC AREA

Babasola A. Fateye, Akin Sowunmi, Grace O. Gbotosho, Ahmed A. Adedeji, Fatai A. Fehintola, Christian T. Happi

Department of Pharmacology and Therapeutics and Malaria Research Group, Institute for Medical Research and Training, University of Ibadan, Ibadan, Nigeria

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COMMUNITY'S PERCEPTIONS AND USE OF ANTIMALARIAL DRUGS IN THE HOME MANAGEMENT OF MALARIA IN RURAL TANZANIA

June J. Msechu¹, Manuel Hetzel², Brigit Obrist², Ahmed Makemba¹, Christian Lengeler², Kusekwa Sono¹, Haji Mponda¹, Hassan Mshinda¹

¹Ifakara Health Research and Development Centre, Ifakara, United Republic of Tanzania, ²Swiss Tropical Institute, Basel, Switzerland

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VILLAGE BASED EDAT FOR MALARIA – THE EMERGENCY STRATEGY OF CHOICE FOR REMOTE AND HYPERENDEMIC VILLAGES IN CAMBODIA

Chea Nguon¹, Duong Socheat¹, Sean Hewitt², Reiko Tsuyuoka³

¹National Center for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia, ²DFID Health Resource Center (HRC), London, UK, London, United Kingdom, ³World Health Organization/Cambodia, Phnom Penh, Cambodia

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SEASONAL INTERMITTENT PREVENTIVE TREATMENT WITH ARTESUNATE AND SULFADOXINE PYRIMETHAMINE TO REDUCE MALARIA MORBIDITY IN SENEGALESE CHILDREN

Cheikh S. Sokhna¹, Badara Cissé², Neal Alexander², Jo Lines², Brian Greenwood², Jean-François Trape¹

¹Institut de Recherche pour le Développement, Dakar, Senegal, ²London School of Hygiene and Tropical Medicine, London, United Kingdom

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A CLINICAL TRIAL TO COMPARE THE EFFICACY OF INTRARECTAL VERSUS INTRAVENOUS QUININE IN THE TREATMENT OF CHILDHOOD CEREBRAL MALARIA IN UGANDA

Jane W. Achan, Justus Byarugaba, James K. Tumwine
Makerere University, Kampala, Uganda

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ANTIMALARIAL ACTIVITY OF HIV-1 PROTEASE INHIBITORS

Sunil Parikh¹, Jiri Gut¹, Eva Istvan², Puran Sijwali¹, Jun Liu², Diane V. Havlir¹, Daniel E. Goldberg², Philip J. Rosenthal¹

¹University of California-San Francisco, San Francisco, CA, United States, ²Washington University School of Medicine, St. Louis, MO, United States

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COMPARATIVE EFFICACY AND SAFETY OF QUININE AND ARTEMETHER IN THE TREATMENT OF SEVERE *FALCIPARUM* MALARIA

George O. Ademowo¹, Olusoga Osonuga², Aduragbenro Deborah Adedapo³

¹College of Medicine, Ibadan, Nigeria, ²Department of Pharmacology, Olabisi Onabanjo University, Sagamu, Nigeria, ³Department of Pharmacology and Therapeutics, College of Medicine, University of Ibadan, Ibadan, Nigeria

Malaria – Diagnosis

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FEASIBILITY OF URINE DIAGNOSIS FOR *PLASMODIUM FALCIPARUM*

David J. Sullivan¹, Sungango Mharakurwa², Christopher Simoloka², Philip Thuma², Peter F. Scholl¹, Lirong Shi¹, Maria Rivarola¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²The Malaria Institute at Macha, Choma, Zambia

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HIGH THROUGHPUT IDENTIFICATION OF THE PREDOMINANT MALARIA PARASITE CLONE IN COMPLEX BLOOD STAGE INFECTIONS USING AN OLIGONUCLEOTIDE LIGATION ASSAY

Jennifer L. Cole-Tobian¹, Peter A. Zimmerman¹, William E. Collins², Christopher L. King¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Centers for Disease Control and Prevention, Chamblee, GA, United States

Malaria – Drug Development

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IN VITRO REVERSAL OF QUINOLINE RESISTANCE IN *PLASMODIUM FALCIPARUM* WITH DIHYDROETHANOANTHRACENE DERIVATIVES

Bruno Pradines¹, Maud Henry¹, Sandrine Alibert², Thierry Fusai¹, Joel Mosnier¹, Eric Baret¹, Jacques Barbe², Christophe Rogier¹

¹Institut de Médecine Tropicale du Service de Santé des Armées, Marseille, France, ²GERCTOP-UMR CNRS 6178 Faculté de Pharmacie, Marseille, France

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THE TOXICITY OF PYRROLOQUINAZOLINE AND ITS TETRA-ACETAMIDE ANALOG ASSOCIATED WITH THEIR ABSORPTION

Yuanzheng Si¹, Qiang Zeng¹, Jing Zhang¹, Todd O. Johnson², Lisa Xie¹, Peter J. Weina¹, Wilbur K. Milhous¹, Qigui Li¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²NMRC, Silver Spring, MD, United States

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THE ROLE OF QUANTITATIVE WHOLE BODY AUTORADIOGRAPHY AND TISSUE DISSECTION TECHNIQUES IN THE EVALUATION OF TISSUE DISTRIBUTION AND METABOLIC PROFILES OF [14C] ARTESUNATE IN RATS

Qigui Li, Peter Weina, Lisa Xie, Adam Haeberle, Jing Zhang, Wilbur Milhous

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

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TISSUE DISTRIBUTION, PHARMACOKINETICS, MASS BALANCE, AND ELIMINATION OF [14C]-ARTESUNATE IN RATS, AND PROTEIN BINDING WITH HUMAN AND RAT BLOOD AND PLASMA

Lisa H. Xie, Qigui Li, Adam Haeberle, Jing Zhang, Peter Weina

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

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DIPHENYLAMINO-MODIFIED CHLOROQUINES THAT ARE EFFECTIVE AGAINST CHLOROQUINE RESISTANT MALARIA

Steven J. Burgess¹, Simeon S. Andrews¹, Audrey Selzer¹, Jane Xu Kelly², Michael Riscoe², David H. Peyton¹

¹Portland State University, Portland, OR, United States, ²Portland VAMC, Portland, OR, United States

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SYNTHESIS AND EVALUATION OF ANTIMALARIALS FORMED BY LINKING CHLOROQUINE TO DIBENZYLAMINES

Simeon S. Andrews¹, Steven J. Burgess¹, Audrey Selzer¹, Jane Xu Kelly², Michael Riscoe², David H. Peyton¹

¹Portland State University, Portland, OR, United States, ²Portland VAMC, Portland, OR, United States

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INDIVIDUAL BASED MODEL AND SIMULATION OF *PLASMODIUM FALCIPARUM* IN VITRO CULTURES

Jordi Ferrer¹, Esperanza Herreros², Joaquim Valls¹, Clara Prats¹, Daniel López¹, Domingo Gargallo-Viola²

¹Universitat Politècnica de Catalunya, Castelldefels, Spain, ²GlaxoSmithKline, Madrid, Spain

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LC/MS ANALYSIS OF ARTESUNATE AND DIHYDROARTEMISININ IN PLASMA FOLLOWING A SINGLE STEP PROTEIN PRECIPITATION

D. Siriyononda¹, P. Teja-Isavadharm¹, N. Chanarat¹, A. Lim¹, S. Wannaying¹, M. Fukuda¹, R. Miller², P. Weina², V. Melendez¹

¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

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IN VIVO DRUG INTERACTION STUDIES OF ARTESUNATE USING RHESUS MONKEYS AND LC/MS ANALYSIS

V. Melendez¹, P. Teja-Isavadharm¹, M. Gettayamacin¹, D. Siriyononda¹, M. Rasameesoraj¹, N. Chanarat¹, A. Lim¹, S. Wannaying¹, W. Chuenarom¹, M. Fukuda¹, P. Weina², R. Miller²

¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

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IN SILICO 3D PHARMACOPHORE MODEL FOR CHALCONE TO AID THE DESIGN AND SYNTHESIS OF NOVEL ANTIMALARIAL THERAPEUTICS

Apurba K. Bhattacharjee¹, Lucia Gerena¹, Dennis E. Kyle¹, Clare Gutteridge²

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²U.S. Naval Academy, Annapolis, MD, United States

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QSAR STUDIES OF BACTERIAL ENOYL ACYL CARRIER PROTEIN REDUCTASE (FABI)

Jayendra Bhonsle, Apurba Bhattacharjee

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

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DATABASE MINING AND ITERATIVE SCREENING IN THE SEARCH OF SELECTIVE INHIBITORS OF THE PLASMODIAL CYCLIN DEPENDENT PROTEIN KINASES (CDKS)

Norman C. Waters¹, April K. Kathcart¹, Edison A. Cortes¹, Richard A. Denuff¹, Apurba K. Bhattacharjee¹, Donald P. Huddler¹, Sean T. Prigge², Jeanne A. Geyer¹

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

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ANTI-PLASMODIUM ACTIVITY OF IMIDAZOLE-DIOXOLANE COMPOUNDS

Jason Z. Vlahakis¹, Robert T. Kinobe¹, Kanji Nakatsu¹, Walter A. Szarek¹, **Ian Crandall**²

¹Queen's University, Kingston, ON, Canada, ²University of Toronto, Toronto, ON, Canada

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ARTESUNATE ADMINISTERED INTRAVENOUSLY TO RHESUS MONKEYS (MACACA MULATTA): A NEUROLOGY AND NEUROPATHOLOGY STUDY. I. THE MEDULLA OBLONGATA, PONS, AND CEREBELLUM

J.M. Petras¹, Y. Van Gessel², T.W. Blanchard², M. Gettayacamin², R.S. Miller², K.M. Bracke¹, A.V. Charya¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

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J.M. Petras¹, Y. Van Gessel², T.W. Blanchard², R.S. Miller³, K.M. Bracke¹, A.V. Charya¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ³Armed Forces Research Institute of Medical Sciences, Silver Spring, Thailand

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ARTELINATE ADMINISTERED INTRAVENOUSLY TO RHESUS MONKEYS (MACACA MULATTA): A NEUROLOGY AND NEUROPATHOLOGY STUDY. I. THE MEDULLA OBLONGATA, PONS, AND CEREBELLUM

J.M. Petras¹, Y. Van Gessel², T.W. Blanchard², R.S. Miller², K.M. Bracke¹, A.V. Charya¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

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IN VITRO ANTIMALARIAL ACTIVITY OF 4(1H)-PYRIDONE DERIVATIVES

Esperanza Herreros¹, Maria J. Almela¹, Sonia Lozano¹, Maria C. Roncales¹, Pedro Torres¹, Jiri Gut², Philip J. Rosenthal², Federico Gomez-de las Heras¹, David Pompliano³, Domingo Gargallo-Viola¹

¹GlaxoSmithKline, Diseases of the Developing World, Tres Cantos, Spain, ²Department of Medicine, San Francisco General Hospital, University of California, San Francisco, CA, United States, ³GlaxoSmithKline, Diseases of the Developing World, Collegeville, PA, United States

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Iñigo Angulo-Barturen¹, Elena Jiménez¹, Belén Jiménez-Díaz¹, Pablo Castañeda¹, Joaquín Rullas¹, Gema Pinel¹, Teresa Mulet¹, Antonio Martínez¹, Federico Gómez de las Heras¹, David Pompliano², Domingo Gargallo-Viola¹

¹GlaxoSmithKline-Diseases of the Developing World, Tres Cantos (Madrid), Spain, ²GlaxoSmithKline-Diseases of the Developing World, Collegeville, PA, United States

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COMBINATION STUDIES OF 4(1H)-PYRIDONE DERIVATIVES WITH OTHER ANTIMALARIAL DRUGS

Esperanza Herreros¹, Maria J. Almela¹, Maria Roncales¹, Sonia Lozano¹, Federico Gomez-de las Heras¹, David Pompliano², Domingo Gargallo-Viola¹

¹GlaxoSmithKline, Diseases of the Developing World, Tres Cantos, Spain, ²GlaxoSmithKline, Diseases of the Developing World, Collegeville, PA, United States

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STAGE SPECIFIC EFFECTS OF ANTIMALARIAL 4(1H)-PYRIDONES

Esperanza Herreros¹, Maria C. Roncales¹, Maria J. Almela¹, Sonia Lozano¹, Pedro Torres¹, Carmen López², Eduardo Dei-Cas³, Federico Gomez-de las Heras¹, Domingo Gargallo-Viola¹

¹GlaxoSmithKline, Diseases of the Developing World, Tres Cantos, Spain, ²Universidad de Barcelona, Barcelona, Spain, ³Institut Pasteur, Lille, France

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SINGLE-DOSE PHARMACOKINETIC CHARACTERIZATION STUDIES IN MICE AND BEAGLE DOGS OF A NEW FAMILY OF ANTIMALARIAL AGENTS

Santiago Ferrer¹, Sophie Huss¹, Adolfo García¹, Beatriz Rodríguez¹, Ciriaco Maraschiello², Jaume Vilageliu², Hong Xiang³, Charles Davis³, Federico Gómez de Las Heras¹, David Pompliano³, Domingo Gargallo-Viola¹

¹GlaxoSmithKline-Diseases of the Developing World, Tres Cantos (Madrid), Spain, ²Centro de Investigación y Desarrollo Aplicado S.A.L., Santa Perpetua de Mogoda (Spain), Spain, ³GlaxoSmithKline, MMPD CEDD, Upper Providence, PA, United States

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TARGETING BETA-KETOACYL ACP SYNTHASE III (KASIII) INHIBITORS TO DISRUPT FATTY ACID BIOSYNTHESIS IN *PLASMODIUM FALCIPARUM*

Heather W. Gaona¹, Patricia J. Lee¹, Sean T. Prigge², Apurba K. Bhattacharjee¹, Lucia Gerena¹, Norma Roncal¹, Miriam Lopez-Sanchez¹, Tiffany N. Heady¹, Norman C. Waters¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Johns Hopkins School of Public Health Department of Molecular Microbiology and Immunology, Baltimore, MD, United States

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ESSENTIAL OILS: NEW TOOL TO COMBAT TROPICAL DISEASES?

Fabrice F. Boyom¹, Paul H. Zollo¹, Chantal Menut², Philip J. Rosenthal³

¹University of Yaounde, Yaounde, Cameroon, ²Université de Montpellier II, Montpellier, France, ³University of California, San Francisco, San Francisco, CA, United States

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GENETIC DIVERSITY IN *PLASMODIUM FALCIPARUM* INFECTIONS AND THE PRESENCE OF MEROZOITE SURFACE PROTEIN 1 AND 2 IN SYMPTOMATIC MALARIA CHILDREN IN THE KINTAMPO DISTRICT OF GHANA: A BASELINE STUDY

Akua Agyeman-Budu¹, Seth Owusu-Agyei¹, Anna Randall², Kwaku Poku Asante¹, Mohammed Adams¹, David Kwame Dosoo¹, Colin Sutherland²

¹Kintampo Health Research Centre, Brong-Ahafo, Ghana, ²London School of Hygiene and Tropical Medicine, London, United Kingdom (ACMCI Abstract)

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Halidou Tinto¹, Jean Bosco Ouedraogo¹, Tinga Robert Guiguemde², Boroma Sanou¹, Jean Claude Dujardin¹, Jean Claude Dujardin³, Chantal Van Overmeir³, Annette Erhart³, Eric Van Marck⁴, Umberto D'Alessandro³

¹IRSS/Centre Muraz, Bobo Dioulasso, Burkina Faso, ²Centre Muraz, Bobo Dioulasso, Burkina Faso, ³Institute of Tropical Medicine, Antwerp, Belgium, ⁴University of Antwerp, Antwerp, Belgium

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Bakri Y. Nour¹, Henk Schallig², Osman Khalafalla Saeed¹, Gerad Schoone³, Ahmed Abd Alla Mohamadani¹, Yousif Dafa Alla Abd Allah¹

¹Blue Nile Research and Training Institute / University of Gezira, Wad Medani, Sudan, ²Royal Tropical Institute (KIT) Biomedical Research, Amsterdam, The Netherlands, ³Royal Tropical Institute (KIT), Amsterdam, Netherlands

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Rithy Sem¹, Alisa P. Alker², Naman Shah², Augustina Ika Susanti³, Sinuon Muth¹, Socheat Duong¹, Frederic Arie⁴, Jason D. Maguire⁵, Thierry Fandeur⁴, Steven R. Meshnick², Chansuda Wongsrichanalai⁵

¹National Center for Parasitology, Entomology and Malaria Control (CNM), Phnom Penh, Cambodia, ²Department of Epidemiology, University of North Carolina, Chapel Hill, NC, United States, ³U.S. Naval Medical Research Unit No. 2 (NAMRU-2), Jakarta, Indonesia, ⁴Pasteur Institute, Phnom Penh, Cambodia, ⁵NIPH/NAMRU-2 Laboratory, Phnom Penh, Cambodia and U.S. Naval Medical Research Unit No. 2 (NAMRU-2), Jakarta, Indonesia

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ACT AND POLYMORPHISM OF *PFATP6* AND *PFTCTP* GENES IN THREE ENDEMIC COUNTRIES: CAMBODIA, FRENCH GUYANA, SENEGAL

Makhtar Niang¹, Ronan Jambu¹, Eric Legrand²

¹Pasteur Institute Dakar, Dakar, Senegal, ²Pasteur Institute French Cayena, Guyana, Guyana

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GENOME-WIDE SIGNIFICANCE LEVEL FOR LINKAGE ANALYSIS IN *PLASMODIUM FALCIPARUM*

Jeff T. Williams¹, Shalini Nair¹, Daniel Sudimack¹, François Nosten², Harald HH Göring¹, Tim JC Anderson¹

¹Southwest Foundation for Biomedical Research, San Antonio, TX, United States, ²Shoklo Malaria Research Unit, Mae Sot, Thailand

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Martin J. Smilkstein, Michael Riscoe

Portland Veterans Affairs Medical Center, Portland, OR, United States

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ANTIMALARIAL DRUG RESISTANCE IN ISIOLO, KENYA

Sheryl Bedno¹, Rodney Coldren², Rachel Achilla¹, Pamela Liyala¹, Fredrick Eyase¹, Julia Wangui¹, Hosea Akala¹, Jane Mbui³, Norman Waters⁴

¹United States Army Medical Research Unit - Kenya, Nairobi, Kenya, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴Walter Reed Army Institute of Research, Silver Spring, MD, United States

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Carola J. Salas¹, Alan J. Magill², Trenton K. Ruebush³, Kevin C. Kain⁴, Kathleen J. Zhong⁴, Carmen M. Lucas¹, Christian T. Bautista⁵, David J. Bacon¹

¹US Naval Medical Research Center Detachment, Lima, Peru, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³USAID Bureau for Global Health, Washington D.C., WA, United States, ⁴University of Toronto, Toronto, ON, Canada, ⁵US Military HIV Research Program and the Henry M. Jackson Foundation, Rockville, MD, United States

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ORIGIN AND DISSEMINATION OF CHLOROQUINE-RESISTANT *PFCRT* ALLELES IN PAPUA NEW GUINEA, INDONESIA, AND INDIA

Rajeev K. Mehlotra¹, Gabriel Mattera¹, Moses J. Bockarie², Jason D. Maguire³, J. Kevin Baird³, YD Sharma⁴, Peter A. Zimmerman¹

¹Case Western Reserve University, Cleveland, OH, United States, ²PNGIMR, Madang, Papua New Guinea, ³U.S. Naval Medical Research Unit No. 2, U.S. Embassy, Jakarta, Indonesia, ⁴AIIMS, New Delhi, India

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PILOT STUDY OF SULFADOXINE-PYRIMETHAMINE RESISTANCE USING A NOVEL METHOD TO ANALYZE MIXED INFECTIONS

Laura Certain, Carol H. Sibley

University of Washington, Seattle, WA, United States

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MOLECULAR MARKERS OF RESISTANCE IN *PLASMODIUM FALCIPARUM* AND *IN VIVO* OUTCOMES OF CHLOROQUINE OR FANSIDAR TREATMENTS FOR UNCOMPLICATED *FALCIPARUM* MALARIA IN YOUNG CHILDREN OF NORTHERN GHANA

David J. Fryauff¹, Francis Anto², Jason Maguire³, Joseph Flanagan⁴, Frank Atuguba⁵, Kwadwo Koram⁶, Abraham Hodgson⁵, Ika Susanti³, Seth Owusu-Agyei²

¹U.S. Naval Medical Research Unit No. 3, Cairo, Egypt, ²Navrongo Health Research Center, Navrongo, UER, Ghana, ³U.S. Naval Medical Research Unit No. 2, Jakarta, Indonesia, ⁴U.S. Naval Medical Research Unit No. 3, FPO AE, Egypt, ⁵Navrongo Health Research, Navrongo, UER, Ghana, ⁶Noguchi Memorial Institute of Medical Research, Legon, Accra, Ghana
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COMMUNICATING RESEARCH RESULTS TO RURAL WOMEN IN AFRICA: A CASE STUDY OF DEMAND CREATION FOR INSECTICIDE TREATED NETS

Anne N. Meremikwu, Joseph Okebe, Emmanuel Effah, Uduak Okomo, Martin Meremikwu
University of Calabar, Nigeria

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Jane A. Alaii¹, Charles Mbogo², Kiambu Njagi³, Ruth Kihara³, Phoebe Josiah⁴, Monique Wassuna⁵, Wyllis Akhwale³, John M. Vulule¹

¹Kenya Medical Research Institute, Centre for Vector Biology and Control Research (CVBCR), Kisumu, Kenya, ²Kenya Medical Research Institute, Centre for Geographic Medicine Research - Coast (CGMR-C), Kilifi, Kenya, ³Division of Malaria Control (DOMC), Nairobi, Kenya, ⁴Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, ⁵Kenya Medical Research Institute, Centre for Clinical Research (CRC), Nairobi, Kenya

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PREVALENCE OF AND RISK FACTORS FOR PERIPHERAL MALARIA PARASITEMIA AND ANEMIA AMONG ANTENATAL CLINIC ATTENDEES IN KISUMU, WESTERN KENYA

Peter O. Ouma¹, Annemieke van Eijk¹, Mary J. Hamel¹, Monica Parise², Piet Kager³, Feiko ter Kuile⁴, Laurence Slutsker¹

¹Centers for Disease Control and Prevention/KEMRI Research Station, Kisumu, Kenya, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Department of Infectious Diseases, Tropical Medicine and AIDS, Academic Medical Centre, University of Amsterdam, The Netherlands, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom

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EPIDEMIOLOGY OF MALARIA IN AN AREA OF LOW MALARIA TRANSMISSION IN CENTRAL INDIA

Praveen K. Bharti, A. K. Mishra, S. K. Chand, N. Singh
Malaria Research Centre Field Station, Jabalpur, India

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ASSOCIATION OF MALARIA WITH CLIMATIC FACTORS AND ENVIRONMENTAL FACTORS IN THE BIGGEST PILGRIM TOWN OF SOUTH INDIA

Maram Rajasekhar
Sri Venkateshwara University, Tirupati, India

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Ashok K. Mishra, M. M. Shukla, Neeru Singh
Malaria Research Centre Field Station, Jabalpur India

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RECENT ANTIMALARIAL TREATMENT AMONG KENYAN ADULTS PRESENTING TO CLINICS WITH POSITIVE MALARIA SMEARS.

Rodney L. Coldren¹, Jane Mbui², Sheryl Bedno³, Rachel Achilla², Shirley Segecha², Norman C. Waters⁴
¹*Armed Forces Institute of Medical Research, Bangkok, Thailand,*
²*Kenya Medical Research Institute, Nairobi, Kenya,* ³*US Army Medical Research Unit - Kenya, Nairobi, Kenya,* ⁴*Walter Reed Army Institute of Research, Silver Spring, MD, United States*

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MALARIA SUSCEPTIBILITY AND MULTIPLE ERYTHROCYTE POLYMORPHISMS IN PAPUA NEW GUINEA

Svetlana Katsnelson¹, John C. Reeder², James W. Kazura¹, Sheral S. Patel³
¹*Case Western Reserve University, Cleveland, OH, United States,*
²*Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea,* ³*Eastern Connecticut Health Network, Manchester, CT, United States*

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BURDEN OF HIV ASSOCIATED MALARIA ON PREGNANT WOMEN IN FEDERAL MEDICAL CENTRE IN OWERRI IMO STATE NIGERIA

Preet I. Onyeka¹, E. U. Nwabueze¹, F. O. Nduka², C. N. Ukaga¹, J. P. Ekwerekwu¹, B. B. Nwoke¹
¹*Imo State University, Owerri, Nigeria,* ²*Abia State University, Okigwe, Nigeria*

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A CASE-CONTROL STUDY EXAMINING RECENT ANTI-MALARIAL USE AMONG PATIENTS ADMITTED WITH MALARIA AND OTHER FEBRILE ILLNESSES IN KENYA

Rodney L. Coldren¹, Norman C. Waters², Sheryl Bedno³, Shirley Segecha⁴, Jane Mbui⁴
¹*USAMC-AFRIMS, Bangkok, Thailand,* ²*Walter Reed Army Institute of Research, Silver Spring, MD, United States,* ³*US Army Medical Research Institute - Kenya, Nairobi, Kenya,* ⁴*Kenya Medical Research Institute, Nairobi, Kenya*

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MOLECULAR EPIDEMIOLOGY OF *PLASMODIUM VIVAX* IN THE STATE OF AMAZONAS, BRAZIL

Patricia D. Santos-Ciminera¹, Donald R. Roberts¹, Maria da Graca C. Alecrim², Gerald V. Quinnan¹
¹*USUHS, Bethesda, MD, United States,* ²*FMT-Am, Manaus, Brazil*
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RECENT MALARIA EPISODE IN GALAG VILLAGE OF SOUTHERN INDIA HAS BECOME A CAUSE OF CONCERN

Basavaraj Madhusudhan, N. P. Aditya, B. N. Vageesh, H. K. Thyagaraj, Ravi B. Madhusudhan
Kuvempu University, Davangere, India

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AN EVALUATION OF SOCIO-ECONOMIC FACTORS ASSOCIATED WITH MALARIA IN ZAMBIA

Naawa Sipilanyambe
National Malaria Control Center, Lusaka, Zambia

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LONGITUDINAL STUDY OF THE COMPLEXITY OF *PLASMODIUM FALCIPARUM* INFECTIONS IN CHILDREN IN WESTERN KENYA

Ardath W. Grills¹, Behnhards Ogotu², Amos K'ungu², Anjali Yadava³, Mala Ghai³, Jose Stoute³, Mark Withers³, Christian Ockenhouse³, John Waitumbi²
¹*Uniformed Services University of the Health Sciences, Bethesda, MD, United States,* ²*Kenya Medical Research Institute, Kisumu, Kenya,* ³*Walter Reed Army Institute of Research, Silver Spring, MD, United States*

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IN VITRO* ACTIVITY OF PYRIMETHAMINE-RESISTANT DIHYDROFOLATE REDUCTASE ENZYMES OF *P. FALCIPARUM

Conner Sandefur¹, Jason M. Wooden², Carol Hopkins Sibley¹
¹*University of Washington, Seattle, WA, United States,* ²*Puget Sound Blood Center, Seattle, WA, United States*

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POLYMORPHISM IN MEROZOITE SURFACE PROTEIN 1 OF *PLASMODIUM VIVAX* POPULATION IN THAILAND CORRELATES WITH MALARIA ENDEMICITY

Chaturong Putaporntip¹, Liwang Cui², Rachanee Udomsangpetch³, Hiroji Kanbara⁴, Somchai Jongwutiwes¹

¹Department of Parasitology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ²Department of Entomology, The Pennsylvania State University, University Park, PA, United States, ³Department of Pathobiology, Faculty of Science, Mahidol University, Bangkok, Thailand, ⁴Department of Protozoology, Institute of Tropical Medicine, Nagasaki University, Sakamoto, Nagasaki, Japan

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CHARACTERIZATION OF MALARIA IN MESOENDEMIC AREA IN WESTERN INDONESIA

Iwa W. Sumawinata

U.S. Naval Medical Research Unit No. 2 Jakarta, Indonesia, Jakarta, Indonesia

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EXPRESSION OF CYCLOOXYGENASE IN PLACENTAL MALARIA BY REAL TIME PCR

Demba Sarr, Frealle Emilie, Marrama Laurence, Ronan Jambou

Pasteur Institute of Dakar, Dakar, Senegal

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THE GNPB GENE FAMILY AND ITS ROLE IN THE INNATE IMMUNE SYSTEM OF *ANOPHELES GAMBIAE* AND IN ANTI-*PLASMODIUM* DEFENSE

Emma L. Warr, George Dimopoulos

Johns Hopkins University, Baltimore, MD, United States

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THE INTEGRIN CD103 PLAYS AN IMPORTANT ROLE IN PROTECTION WITH THE MALARIA IRRADIATED SPOOROZOITE VACCINE

Uzma Alam, Gregg A. Hadley, John B. Sacchi, Abdu F. Azad

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

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INFECTION-INDUCED CYTOKINE PRODUCTION INFLUENCES PROTECTION AGAINST BLOOD-STAGE MALARIA IN MICE IMMUNIZED WITH MEROZOITE SURFACE PROTEIN-8

Patricia M. Petritus, Qifang Shi, James M. Burns

Drexel University College of Medicine, Philadelphia, PA, United States

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CYTOKINE-ASSOCIATED MORBIDITY AMONG *PLASMODIUM FALCIPARUM* INFECTED CHILDREN UNDER THE AGE OF SIX

Virginia S. Baker¹, Godwin Imade², Norman Molta³, Sarah Belcher¹, Pallavi Tawde¹, Sunday Pam², Michael Obadofin², Solomon Sagay², Daniel Egah², Daniel Iya², Bangmboye Afolabi², Murray Baker⁴, Karen Ford⁴, Robert Ford⁴, Kenneth Roux¹, Thomas Keller¹

¹Florida State University, Tallahassee, FL, United States, ²Jos University Teaching Hospital and Medical School, Jos, Nigeria, ³Jos University, Jos, Nigeria, ⁴World Health Mission, Pittsburgh, PA, United States

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SUPPRESSION IL-12 IN CHILDREN WITH SEVERE MALARIAL ANEMIA OCCURS THROUGH HEMOZOIN-INDUCED OVERPRODUCTION OF IL-10

Christopher C. Keller¹, John Michael Ong'echa², Collins Ouma², Richard O. Otieno³, Tom Were⁴, John M. Vulule⁵, Douglas J. Perkins¹

¹Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, ²University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kenya Medical Research Institute, Centre for Vector Biology and Control Research, Kisumu, Kenya, ³Department of Zoology, Maseno University, Kisumu, Kenya, ⁴Department of Pathology, School of Health Sciences, Kenyatta University, Nairobi, Kenya, ⁵Centre for Vector Biology and Control Research, Kisumu, Kenya

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EOSINOPHIL CATIONIC PROTEIN (ECP) 434 G/C POLYMORPHISM IN THE FULANI AND THE DOGON FROM MALI, WEST AFRICA

Bakary Maiga¹, Amagana Dolo¹, Anna Davidson², Manijed VAFA², Magdi Ali², Marita Troye-Blomberg², Ogobara Doumbo¹

¹MRTC/DEAP/FMPOS, Bamako, Mali²WGI/Department of Immunology/Stockholm University/Sweden, Stockholm, Sweden

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CELLULAR IMMUNE RESPONSE TO *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN AND SUSCEPTIBILITY TO INFECTION AMONG PAPUA NEW GUINEAN CHILDREN

Kara Martin¹, Arlene Dent¹, Jack Taraika², Elijah Dabod², Marthe D'Umbrain², Ivo Mueller², Pascal Michon², Christopher L. King¹

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

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DISSECTING: THE TRANSLATIONAL MACHINERY OF *PLASMODIUM FALCIPARUM*Indu Sharma¹, Jun Fang¹, Thomas F. McCutchan¹¹National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States,

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A HIGH-THROUGHPUT METHOD FOR GENOTYPING THE 19KDA REGION OF *PLASMODIUM FALCIPARUM* MEROZOITE SURFACE PROTEIN 1 (MSP-1) USING ALLELE FREQUENCY DETERMINATION AND HAPLOTYPE ESTIMATIONShannon L. Takala¹, David L. Smith², Drissa Coulibaly³, Mahamadou A. Thera³, Amed Ouattara¹, Colin Stine¹, Ogobara Doumbo³, Christopher Plowe¹¹University of Maryland School of Medicine, Baltimore, MD, United States, ²Fogarty International Center, National Institutes of Health, Bethesda, MD, United States, ³University of Bamako, Bamako, Mali

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IDENTIFYING BINDING RESIDUES IN THE *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN LIGAND DOMAIN

Amy M. McHenry, Kelley M. VanBuskirk, Elitza S. Sevova, John H. Adams

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

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Sarita R. Mendonca, John H. Adams

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

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MORPHOLOGICAL EFFECTS OF ARTEMISININ TREATMENT ON THE *PLASMODIUM FALCIPARUM* DIGESTIVE VACUOLE

Carmony L. Hartwig, Roland A. Cooper

Old Dominion University, Norfolk, VA, United States

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GENE CONVERSION AND EXTENSIVE POLYMORPHISM OF THE RHOPH1/CLAG FAMILY MEMBERS IN *PLASMODIUM FALCIPARUM*Hideyuki Iriko¹, Osamu Kaneko², Hitoshi Otsuki², Takafumi Tsuboi³, Motomi Torii²¹Ehime University School of Medicine, Toon, Ehime, Japan,²Department of Molecular Parasitology, Ehime University School of Medicine, Toon, Ehime, Japan, ³Cell-Free Science and Technology Research Center, Ehime University, Matsuyama, Ehime, Japan

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EXTENSIVE GENETIC POLYMORPHISM AND HIGH PREVALENCE OF MOLECULAR MARKERS FOR DRUG RESISTANCE IN *PLASMODIUM FALCIPARUM* IN DIFFERENT ENDEMIC AREAS OF ZIMBABWEGodfree Mlambo¹, Susan L. Mutambu², David Sullivan¹, Thomas Jaenisch¹, Armin Gemperli¹, James Chivenga², Joel Mbedzi², White Soko², Nirbhay Kumar¹¹Johns Hopkins University School of Public Health, Baltimore, MD, United States, ²National Institute of Health Research in Zimbabwe, Harare, Zimbabwe

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MOLECULAR FUNCTION OF A TRANSLATIONAL REGULATOR DURING GAMETOCYTOGENESIS OF THE MALARIA PARASITE *PLASMODIUM FALCIPARUM*Liwang Cui¹, Jinfang Li²¹Pennsylvania State University, University Park, PA, United States, ²Pennsylvania State University, University Park, PA, United States

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CLONING, EXPRESSION AND *IN VITRO* ANALYSIS OF DIHYDROOROTASE FROM *PLASMODIUM FALCIPARUM*Regina L. Davey¹, Thomas H. Hudson¹, Michael T. O'Neil¹, Lucia Gerena¹, Karen M. Kopydlowski¹, Olakunle O. Kassim², Norman C. Waters¹¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Howard University College of Medicine, Washington, DC, United States

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GENETIC DIVERSITY OF MEROZOITE SURFACE PROTEIN 1 OF *PLASMODIUM VIVAX* ISOLATES FROM THE REPUBLIC OF KOREASeok-Hyun Yoon¹, Jae-Sun Park¹, Jetsumon Prachumsri², Won-Ja Lee¹¹Korea National Institute of Health, Seoul, Republic of Korea, ²USAMC-AFRIMS, Bangkok, Thailand

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GENETIC ANALYSIS OF DIHYDROFOLATE REDUCTASE AND DIHYDROPTEROATE SYNTHASE OF *PLASMODIUM VIVAX* ISOLATES FROM THE REPUBLIC OF KOREA

Jae-Sun Park¹, Young-Mi Choi¹, Chang-Hwan Lee¹, Jetsumon Prachumsri², Won-Ja Lee¹

¹Korea National Institute of Health, Seoul, Republic of Korea,

²USAMC-AFRIMS, Bangkok, Thailand

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BINDING OF PLASMA FROM CHILDREN LIVING IN A MALARIA ENDEMIC AREA TO INHIBITORY AND BLOCKING EPITOPES ON MSP-1₁₉ OF *PLASMODIUM FALCIPARUM*

Yusuf O. Omosun¹, Chiaka I. Anumudu¹, Stanley A. Adoro¹, Alexander B. Odaibo¹, Anthony A. Holder², Mark Nwagwu¹, Roseangela I. Nwuba¹

¹Cellular Parasitology Programme, Ibadan, Nigeria, ²National Institute For Medical Research, London, United Kingdom

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Don Yuen¹, Hang Leung¹, Randy Cheung¹, Caryn Hashimoto², Walter Ho¹, **George Hui**²

¹Chinese University of Hong Kong, Dept. of Biochemistry, Hong Kong Special Administrative Region of China, ²University of Hawaii, Dept. of Tropical Medicine, Honolulu, HI, United States

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Michael G. Stockelman¹, Trevor R. Jones², Carmen Lucas³, Chia-Wen Tsai⁴, Carola Salas³, Milagros Salazar³, Gregory C. Utz⁵, Laura B. Martin⁴, David L. Narum⁴

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

²Naval Medical Research Unit No. 2, Jakarta, Indonesia, ³Naval Medical Research Center Detachment, Lima, Peru, ⁴National Institute for Allergy and Infectious Diseases, Rockville, MD, United States, ⁵Naval Medical Center San Diego, San Diego, CA, United States

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Joan A. Aebig¹, Gregory E. Mullen¹, Gelu Dobrescu¹, Kelly Rausch¹, Lynn Lambert¹, Carole A. Long¹, Allan Saul¹, Aaron P. Miles²

¹Malaria Vaccine Development Branch/ National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ²Malaria Vaccine Development Branch/National Institute of Allergy and Infectious Diseases/National Institutes of Health; current address: Human Hookworm Vaccine Initiative/Dept. of Micro., Imm., and Trop. Med./George Washington University, Washington, DC, United States

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Chiawei W. Tsai¹, Nicholas J. MacDonald¹, Jin Wang¹, Yanling Zhang¹, Peter F. Duggan¹, Richard L. Shimp¹, Carole A. Long¹, Jacob Lebowitz², Allan Saul¹, David L. Narum¹

¹Malaria Vaccine Development Branch, Rockville, MD, United States, ²Molecular Interactions Resource, ORS, Bethesda, MD, United States

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David P. Regis, Maureen E. Stefaniak, Joseph J. Campo, Fe Baraceros, Thomas L. Richie, Doolan L. Denise

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

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Kelly M. Rausch¹, Gelu Dobrescu¹, Holly A. McClellan¹, Chiawei W. Tsai¹, Carole A. Long¹, Allan Saul¹, Aaron P. Miles²

¹National Institutes of Health/National Institute of Allergy and Infectious Diseases/Malaria Vaccine Development Branch, Rockville, MD, United States, ²The George Washington University/Department of Microbiology, Immunology and Tropical Medicine / Human Hookworm Vaccine Initiative, Washington, DC, United States

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Satoru Takeo¹, Hideyuki Iriko¹, Ling Jin¹, Masateru Tsuchimochi¹, Eun-Taek Han¹, Osamu Kaneko², Motomi Torii², Jetsumon Sattabongkot³, Rachanee Udomsangpetch⁴, Tatsuya Sawasaki¹, Yaeta Endo¹, Takafumi Tsuboi¹

¹Cell-Free Science and Technology Research Center, Ehime University, Matsuyama, Japan, ²Department of Molecular Parasitology, Ehime University School of Medicine, Toon, Ehime, Japan, ³Department of Entomology, USAMC AFRIMS, Bangkok, Thailand, ⁴Department of Pathobiology, Faculty of Science, Mahidol University, Bangkok, Thailand

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Joseph T. Bruder¹, Keith Limbach², Duncan McVey¹, Maureen E. Stefaniak², Ping Chen¹, Noelle Patterson², Damodar ETTYREDDY¹, Joseph J. Campo², C. Richter King¹, Thomas L. Richie², **Denise L. Doolan**²

¹GenVec Inc, Gaithersburg, MD, United States, ²Naval Medical Research Center, Silver Spring, MD, United States

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Denise L. Doolan¹, Yunxiang Mu², Siddiqua Hirst², Suman Sundaresh³, Arlo Randall³, Peter L. Blair¹, Joao C. Aguiar¹, Daniel A. Freilich¹, Pierre Baldi³, D. Huw Davies², Philip L. Felgner²

¹Naval Medical Research Center, Silver Spring, MD, United States, ²Center for Virus Research, University of California, Irvine, CA, United States, ³Department of Developmental and Cell Biology, University of California, Irvine, CA, United States

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Caroline Othoro Watta¹, Mauricio Calvo-Calle¹, Giane De Oliveira¹, Katharina Wichner², Elizabeth Nardin¹

¹New York University, New York, NY, United States, ²Humboldt Universitaet, Berlin, Germany

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A QUANTITATIVE SLOT BLOT ASSAY FOR BACTERIAL HOST CELL PROTEIN IMPURITIES IN RECOMBINANT PROTEINS EXPRESSED IN *E. COLI*

Daming Zhu¹, Allan Saul¹, Aaron Miles^{*2}

¹Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ²Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases/National Institutes of Health, *Present address: Department of Microbiology, Immunology and Tropical Medicine, The George Washington University, Washington, DC, United States

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ANTIGENICALLY CONSERVED EPITOPES BETWEEN *PLASMODIUM FALCIPARUM* AND *PLASMODIUM YOELII* BLOOD-STAGE PARASITES

Lili Xu¹, Klavs Berzins², Asok Chaudhuri¹

¹New York Blood Center, New York, NY, United States, ²Stockholm University, Stockholm, Sweden

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Narong Ponsa¹, Gabriela E. Zollner², Jetsumon Sattabongkot¹, Russell E. Coleman², James W. Jones¹, Jefferson A. Vaughan³

¹AFRIMS, Bangkok, Thailand, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³University of North Dakota, Grand Forks, ND, United States

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Brian Blackburn¹, Abel Eigege², E. Miri², J. Agu³, A. Umar³, Henry Filden⁴, R. Bitrus⁴, Gladys Ogah⁵, M. Jinadu⁶, G. Gerlong², John Umaru², Els Mathieu¹, Frank Richards⁷

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²The Carter Center, Jos, Nigeria, ³Nassarawa State Ministry of Health, Lafia, Nigeria, ⁴Plateau State Ministry of Health, Jos, Nigeria, ⁵Nassarawa State Ministry of Health, Jos, Nigeria, ⁶Federal Ministry of Health, Abuja, Nigeria, ⁷The Carter Center, Atlanta, GA, United States

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Huang Fusheng

Third Military Medical University, Chongqing, China

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Faculty of Medicine, Bamako, Mali

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Jun Cao, Qi Gao

Jiangsu Institute of Parasitic Diseases, Wuxi, China

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Bernard A. Okech¹, Meiji Arai², Hiroyuki Matsuoka²

¹*Kenya Medical Research Institute (KEMRI), Nairobi, Kenya,*

²*Division of Medical Zoology, Department of Infection and Immunity, Jichi Medical School, Minamikawachi, Tochigi, Japan*

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Olga P. Braginets, Patricia A. Romans

University of Toronto, Toronto, ON, Canada

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Colorado State University, Fort Collins, CO, United States

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University of Illinois, Urbana, IL, United States

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Y. Osee Sanogo, Richard Lampman, Brian Danzer, Robert J. Novak

Illinois Natural History Survey, Champaign, IL, United States

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Alvaro Molina-Cruz, Sanjeev Kumar, Lalita Gupta, Randall DeJong, Carolina Barillas-Mury

National Institutes of Health, Bethesda, MD, United States

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Monique R. Coy, Zhijian Tu

Virginia Tech, Blacksburg, VA, United States

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Rebecca M. Robich¹, Joseph P. Rinehart², Linda L. Kitchen², David L. Denlinger²

¹*Harvard School of Public Health, Boston, MA, United States,* ²*Ohio State University, Columbus, OH, United States*

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¹*Noguchi Memorial Institute of Medical Research, University of Ghana, Accra, Ghana,* ²*Department of Biochemistry, University of Ghana, Accra, Ghana*

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JHBSPH, Baltimore, MD, United States

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Thuy Q. Truong
Hospital For Tropical Diseases, Ho Chi Minh City, Viet Nam
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Shigeto Yoshida, Hiroyuki Watanabe
Jichi Medical School, Minamikawachimachi, Japan
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Alvaro Diaz-Badillo¹, Minerva Camacho-Nuez², Jorge Pascual Martinez-Munoz³, Barry Beaty⁴, William Black⁴, Maria de Lourdes Munoz¹
¹Department of Genetics and Molecular Biology, Centro de Investigacion y de Estudios Avanzados del IPN, Mexico D. F., Mexico, ²Universidad Autonoma de la Ciudad de Mexico, Mexico D. F., Mexico, ³Laboratorio Estatal de Salud Publica de Oaxaca, Servicios de Salud, Oaxaca de Juarez, Mexico, ⁴Department of Microbiology, Immunology, and Pathology, Colorado State University, Fort Collins, CO, United States

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Virginia Tech, Blacksburg, VA, United States

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Joseph H. Vineis
New York State Department of Health, Slingerlands, NY, United States

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Aram D. Stump¹, Meagan C. Fitzpatrick¹, Neil F. Lobo¹, Sekou Traore², N'Fale Sagnon², Carlo Costantini², Frank H. Collins¹, Nora J. Besansky¹
¹University of Notre Dame, Notre Dame, IN, United States, ²Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso

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

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Guimogo Dolo¹, Adama Dao¹, Mamadou Cissouma¹, Ibrahima Baber¹, Rebecca Kent², Douglas E. Norris²
¹MRTC / FMPOS, Bamako, Mali, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

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Amy F. Mikhail, Benedict C. Anuforum, John Baird, Peter F. Billingsley
University of Aberdeen, School of Biological Sciences, Aberdeen, United Kingdom

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Rebekah J. Kent, Douglas E. Norris
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States
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Amy M. Evans¹, Irma Sanchez-Vargas², Kate L. McElroy³, Heather R. Sanders¹, Linda S. Ross¹, Stephen Higgs³, Barry J. Beaty², Ken E. Olson², Sarjeet S. Gill¹

¹University of California, Riverside, CA, United States, ²Colorado State University, Fort Collins, CO, United States, ³University of Texas Medical Branch, Galveston, TX, United States

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***Aedes Aegypti* VECTOR COMPETENCE AND GENE FLOW IN THE STATE OF VERACRUZ, MEXICO**

Saul Lozano-Fuentes¹, Norma Gorrochotegui-Escalante², Kristine E. Bennett³, William C. Black²

¹UCLA, Los Angeles, CA, United States, ²Colorado State University, Fort Collins, CO, United States, ³Centers for Disease Control and Prevention, Fort Collins, CO, United States

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C. Brandon Ogbunugafor¹, Leunita Sumba², Ahmed Hassanali²

¹Yale University, New Haven, CT, United States, ²International Center of Insect Physiology and Ecology(icipe), Nairobi, Kenya

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***Aedes Aegypti* VECTOR COMPETENCE AND GENE FLOW IN THE STATE OF VERACRUZ, MEXICO**

Saul Lozano-Fuentes¹, Norma Gorrochotegui-Escalante², Kristine E. Bennett³, William C. Black²

¹UCLA, Los Angeles, CA, United States, ²Colorado State University, Fort Collins, CO, United States, ³Centers for Disease Control and Prevention, Fort Collins, CO, United States

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¹Dirección de Salud, Laboratorio Referencial, Iquitos, Peru, ²Naval Medical Research Center, Detachment, APO, AE, United States, ³Instituto Nacional de Salud, Lima, Peru, ⁴Rothamsted Research, Harpenden, United Kingdom

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Alpha S. Yaro¹, Adama Dao¹, Abdoulaye Adamou¹, Abdoulaye M. Toure¹, Sekou F. Traore¹, Tovi Lehmann²

¹MRTC, Bamako, Mali, ²LMVR/National Institutes of Health, Rockville, MD, United States

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Gabriela Zollner¹, Jeffrey Shaman², Ratana Sithiprasasna³, Jefferson A. Vaughan⁴, Russell E. Coleman¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Harvard University, Cambridge, MA, United States, ³USAMC-AFRIMS, Bangkok, Thailand, ⁴University of North Dakota, Grand Forks, ND, United States

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University of North Dakota, Grand Forks, ND, United States

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Amy Y. Vittor¹, Robert H. Gilman², James M. Tielsch², Gregory Glass², Tim Shields², Wagner Sanchez-Lozano³, Viviana V. Pinedo³, Jonathan A. Patz⁴

¹Stanford University, Palo Alto, CA, United States, ²Johns Hopkins University, Bloomberg School of Public Health, Baltimore, MD, United States, ³Asociación Benéfica PRISMA (Proyectos en Informática, Salud, Medicina y Agricultura), Lima, Peru, ⁴University of Wisconsin at Madison, Nelson Institute for Environmental Studies, Madison, WI, United States

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Wannapa Suwonkerd¹, Piti Mongkalangoon², John Grieco³, Nicole Achee³, Donald Roberts³, Robert Farlow⁴, Atcharyia Parbaripai⁵, Theeraphap Chareonviriyaphap²

¹Office of Disease Prevention and Control, Ministry of Public Health, Chiang Mai, Department of Entomology, Faculty of Agriculture, Kasetsart University, Bangkok, Thailand, ²Department of Entomology, Faculty of Agriculture, Kasetsart University, Bangkok, Thailand, ³Department of Preventive Medicine and Biometrics, Uniformed Services University of the Health Science, Bethesda, MD, United States, ⁴BASF, Washington, WA, United States, ⁵Faculty of Liberal Arts and Science, Kasetsart University, Kamphaengsean Campus, Nakhonpathom, Thailand

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Michigan State University, East Lansing, MI, United States

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Kathleen R. Walker, Teresa K. Storch, Christa Ellers-Kirk, Frank B. Ramberg

University of Arizona, Tucson, AZ, United States

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Jason L. Rasgon

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

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Joe Rinehart¹, Rebecca M. Robich², David L. Denlinger¹

¹Ohio State University, Columbus, OH, United States, ²Harvard School of Public Health, Boston, MA, United States

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Erika Schielke¹, Carlo Costantini², Gianmaria Carchini³, Sagnon N'Fale⁴, Adalgisa Caccone¹

¹Yale University, New Haven, CT, United States, ²Institut de Recherche pour le Développement (IRD), Ouagadougou, Burkina Faso, ³Universita' di Roma "Tor Vergata", Rome, Italy, ⁴Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso

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ADVANCES TOWARD THE CONTROL OF *ANOPHELES ARABIENSIS* BY THE STERILE INSECT TECHNIQUE

Mark G. Benedict¹, Herve C. Bossin², Miklos Gardos², Anton Nirschl², Bart G. Knols²

¹Centers for Disease Control and Prevention, Chamblee, GA, United States, ²IAEA, Vienna, Austria

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Abdoulaye Diabate¹, Rock Dabiré², Niama Millogo², John Gimnig³, William A. Hawley³, Tovi Lehmann¹

¹National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States, ²IRSS/Centre Muraz Laboratoire de Parasitologie/Entomologie, Bobo-Dioulasso, Burkina Faso, ³DPD/Centers for Disease Control and Prevention, Chamblee, GA, United States

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Sanjeev Kumar, Carolina Barillas-Mury

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

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Jairo Garcia¹, Juliana Quintero², Gabriel Carrasquilla²

¹Instituto de Hidrologia, Meteorología y Estudios Ambientales, Bogotá, Colombia, ²Fundación Santa Fe de Bogotá-Centro de Estudios e Investigación en Salud, Bogotá, Colombia

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Carol A. Baume, M. Celeste Marin

Academy for Educational Development, Washington, DC, United States

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IS THERE AN ADVANTAGE TO MAKING YOUR HOST SICK? STUDIES ON AVIAN DEFENSIVE BEHAVIOR AND MOSQUITO BLOOD FEEDING SUCCESS

Jonathan M. Darbro, André A. Dhondt, Laura C. Harrington

Cornell University, Ithaca, NY, United States

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THE ROLE OF REDUCED RECOMBINATION IN THE EVOLUTION OF REPRODUCTIVE ISOLATION BETWEEN THE M AND S MOLECULAR FORMS OF *ANOPHELES GAMBIAE* S.S.

Michel A. Slotman¹, **Lisa Reimer**¹, Tara Thiemann¹, Guimogo Dolo², Etienne Fondjo³, Gregory C. Lanzaro¹

¹University of California at Davis, Davis, CA, United States, ²Malaria Research and Training Center, Bamako, Mali, ³National Malaria Programme Ministry of Health, Yaounde, Cameroon

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PARITY LEVELS OF URBAN *Aedes aegypti* AND *Aedes albopictus* SAMPLED BY THREE DIFFERENT METHODS: CO₂-BAITED LIGHT TRAP, NASCI ASPIRATOR AND HUMAN-LANDING COLLECTIONS

Brian D. Byrd, Gil Stav, Delmonique Lyons, Dawn Wesson
Tulane University, New Orleans, LA, United States

Mosquitoes – Vector Biology – Epidemiology

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THE MOVEMENT OF *Aedes aegypti* FROM THE INSECTICIDE TREATED EXPERIMENTAL HUT IN THAILAND

Theeraphap Chareonviriyaphap¹, Piti Mongkalangu¹, Wannapa Suwondkerd², John Grieco³, Nicole Achee³

¹Kasetsart University, Bangkok, Thailand, ²Office of Disease Prevention and Control No 10, Chiangmai, Thailand, ³Uniformed Services University of the Health Science, Bethesda, MD, United States

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INVESTIGATION INTO THE FITNESS COST OF *KDR* INSECTICIDE RESISTANCE IN *ANOPHELES GAMBIAE* MALARIA VECTORS

Kojo Y. Sakyi, Bismark Sarfo, Charles A. Brown, Michael D. Wilson, Daniel A. Boakye

Noguchi Memorial Institute for Medical Research, Accra, Ghana

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A GEOGRAPHIC INFORMATION SYSTEM APPLIED TO A MALARIA FIELD STUDY IN NIONO, MALI

Mahamoudou B. Toure, Boubacar Guindo, Adama Dao, Guimogo Dolo, Seydou Doumbia, Sekou Traoré

Malaria Research and Training Center, Bamako, Mali

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PATTERNS AND SEASONALITY OF MALARIA TRANSMISSION IN A RURAL ENDEMIC AREA IN MIDDLE GHANA (KINTAMPO DISTRICT)

Seth Owusu-Agyei¹, **Dominic B. Dery**¹, Kwaku Poku Asante¹, Mohammed Adams¹, David Kwame Dosoo¹, Charles Brown², Brian Greenwood³

¹Kintampo Health Research Centre, Kintampo, Ghana, ²Noguchi Memorial Institute for Medical Research, Accra, Ghana, ³London School of Hygiene and Tropical Medicine, London, United Kingdom

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INTER-EPIDEMIC AEDINE MOSQUITO ECOLOGY STUDIES AT TWO ARBOVIRUS HIGH-INTERFACE AREAS IN KENYA

Brett R. Ellis¹, Dawn M. Wesson¹, Rosemary C. Sang²

¹Tulane University, New Orleans, LA, United States, ²Kenya Medical Research Institute, Nairobi, Kenya

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CLIMATIC INFLUENCES ON WEST NILE VIRUS EPIDEMICS IN SOUTH AFRICA: A RETROSPECTIVE STUDY

Christopher K. Uejio, Andrew C. Comrie

University of Arizona, Tucson, AZ, United States

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LARVAL HABITAT DIVERSITY AND *ANOPHELES* PRODUCTION IN A RICELAND ECOSYSTEM IN MWEA, KENYA

Josephat I. Shililu¹, Joseph M. Mwangangi¹, Ephantus J. Muturi¹, Charles M. Mbogo², John I. Githure¹, Robert J. Novak³

¹ICIPE, Nairobi, Kenya, ²ICIPE/KEMRI, Nairobi, Kenya, ³Illinois Natural History Survey, Champaign, IL, United States

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DENGUE KNOWLEDGE AND PRACTICES AND THEIR IMPACT ON *Aedes aegypti* POPULATIONS IN KAMPHAENG PHET, THAILAND

Constantianus J. Koenraadt¹, Wieteke Tuiten², Ratana Sithiprasasna², Udom Kijchalao², James W. Jones², Thomas W. Scott¹

¹University of California, Davis, CA, United States, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

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SODIUM CHANNEL ALLELE HETEROGENEITY IN *Culex* VECTORS OF WNV IN THE UNITED STATES

Ling Zhou¹, Gena G. Lawrence¹, Janet C. McAllister², William G. Brogdon¹

¹Centers for Disease Control and Prevention, Chamblee, GA, United States, ²Centers for Disease Control and Prevention, Fort Collins, CO, United States

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DISTRIBUTION OF *Aedes Aegypti* IN FOUR DISTRICTS OF LIMA, PERU

Carmen Flores-Mendoza¹, Fernando Chapilliquen², Luis Cubillas³, Pablo Villaseca⁴, Walter Leon⁴, Leonel Campos⁵, Fanny Castro¹, Juan Perez¹, Jeff Stancil¹

¹Naval Medical Research Center, Detachment, APO, AE, United States, ²Oficina General de Epidemiologia, Lima, Peru, ³Direccion de Salud III, Lima, Peru, ⁴Instituto Nacional de Salud, Lima, Peru, ⁵Direccion de Salud V, Lima, Peru

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IMPACTS OF HOST ABUNDANCE AND AVAILABILITY ON HOST PREFERENCE OF *Aedes albopictus*

Stephanie Richards¹, **Charles Apperson**¹, Logu Ponnusamy¹, Thomas Unnasch²

¹N. C. State University, Raleigh, NC, United States, ²University of Alabama, Birmingham, AL, United States

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EVALUATION OF THE HETEROGENEITY OF THE DISTRIBUTION OF *Aedes Aegypti* PUPAE IN AVAILABLE BREEDING SITE CONTAINERS

Peter J. Boldenow¹, Moises Sihuincha², Helvio Astete³, Elvira Zamora⁴, Jeffrey D. Stancil⁴, James G. Olson⁴, Thomas W. Scott³, Mark L. Wilson¹, Amy C. Morrison³

¹University of Michigan, Ann Arbor, MI, United States, ²Laboratorio Referencial de la Region de Loreto, Iquitos, Peru, ³University of California, Davis, Davis, CA, United States, ⁴Naval Medical Research Center Detachment, Lima, Peru

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THE IMPACT OF NON-SYSTEMIC TRANSMISSION ON ARBOVIRUS EPIDEMIOLOGY

Cynthia C. Lord¹, Walter J. Tabachnick¹, Stephen Higgs²

¹University of Florida, Vero Beach, FL, United States, ²University of Texas Medical Branch, Galveston, TX, United States

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REMOTELY SENSED CORRELATES OF MOSQUITO DISTRIBUTION

Heidi E. Brown¹, Maria Diuk-Wasser¹, Durland Fish¹, Theodore Andreadis²

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

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MONITORING LARVAL HABITATS AND MALARIA TRANSMISSION IN AREAS OF SEASONAL TRANSMISSION: SIGNIFICANCE FOR A DRY SEASON VECTOR CONTROL STRATEGY

Seydou Doumbia¹, Nofomon Sogoba¹, Ibrahima Baber¹, Moussa Keita¹, A. Mariko¹, Mahamadou B. Toure¹, Sekou F. Traore¹, Jose Ribeiro²

¹Malaria Research and Training Center, Bamako, Mali, ²Laboratory for Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

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INTRA-HOUSEHOLD USE OF MOSQUITO NETS: WHO SLEEPS UNDER THE NET?

Carol A. Baume, M. Celeste Marin

Academy for Educational Development, Washington, DC, United States

Protozoa – Amoeba/Giardia

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UNDERSTANDING PHAGOCYTOSIS FOLLOWING HOST-CELL KILLING BY *Entamoeba histolytica*

Douglas R. Boettner¹, Christopher D. Huston², William A. Petri¹

¹University of Virginia, Charlottesville, VA, United States, ²University of Vermont, Burlington, VT, United States

(ACMCIP Abstract)

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ZYMODEMS OF *Entamoeba histolytica* AND *Entamoeba dispar* IN IRAN

Nematallah Sahebani

university, Booshehr, Iran (Islamic Republic of)

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IDENTIFICATION OF ACTIN-BINDING PROTEINS IN *GIARDIA LAMBLIA*

Haibei Luo, Jesse Cohen, Kristin Yates, Heidi G. Elmendorf

Georgetown University, Washington, DC, United States

(ACMCIP Abstract)

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EFFECTS OF NITAZOXANIDE AND OTHER THIAZOLIDES ON *GIARDIA LAMBLIA* GROWTH, MORPHOLOGY AND ULTRASTRUCTURE

Mueller Joachim¹, Geraldine Ruehle¹, Mueller Norbert¹, Jean Francois Rossignol², **Andrew Hemphill**¹

¹University of Berne, Berne, Switzerland, ²Romark Research Laboratories, Tampa, FL, United States

Protozoa – Opportunistic Protozoa

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GENOTYPIC ANALYSIS BY PCR-RFLP OF *Cryptosporidium* SPECIES FROM DIARRHEAL STOOL SAMPLES IN CHILDREN IN THE COMMUNITY IN SOUTH INDIA

Sitara Rao, Gagandeep Kang

Christian Medical College and Hospital, Vellore, Tamil Nadu, India

490

POLYPEPTIDE N-ACETYL GALACTOSAMINYL TRANSFERASES OF *CRYPTOSPORIDIUM PARVUM***Najma Bhat**¹, Boguslaw S. Wojczyk², Steven L. Spitalnik³, Honorine D. Ward¹¹Tufts-New England Medical Center, Boston, MA, United States, ²Department of Pathology, College of Physicians and Surgeons of Columbia University, New York, NY, United States, ³Department of Pathology, College of Physicians and Surgeons of Columbia University, New York, NY, United States

(ACMCIP Abstract)

Trematodes – Other

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CSWD-REPEAT PROTEIN: DEVELOPMENTAL EXPRESSION AND PARTNER PROTEINS OF *CLONORCHIS SINENSIS***Pyo Yun Cho**, Tae Im Kim, Shin-Yong Kang, Sung-Jong Hong*Chung-Ang University, Seoul, Republic of Korea***Trematodes – Schistosomiasis**

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THE USE OF CEDAR OIL COMPONENTS TO PREVENT INFECTION WITH SCHISTOSOMIASIS**Jean M. Naples**, Clive J. Schiff, Rolf U. Halden*Johns Hopkins School of Public Health, Baltimore, MD, United States*

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ENZYME-LINKED IMMUNOSORBENT ASSAY WITH WORM VOMIT AND CERCARIAL SECRETIONS OF *SCHISTOSOMA MANSONI* TO DETECT INFECTIONS IN AN ENDEMIC FOCUS OF BURKINA FASO**Hermann Sorgho**¹, Mahmoud Bahgat², Jean Noel Poda¹, Andreas Ruppel², Jean Bosco Ouedraogo¹¹Institut de Recherche en Sciences de la Santé (IRSS), Bobo-Dioulasso, Burkina Faso, ²University of Heidelberg, Heidelberg, Germany

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THE USE OF MICROSATELLITES FOR SCHISTOSOMA MANSONI POPULATION STUDIES AT ENDEMIC SITES**Nilton B. Rodrigues**¹, Marcilene R. Silva¹, Maíra M. Pucci¹, Alvaro J. Romanha¹, Philip T. LoVerde², Robert E. Sorensen³, Dennis J. Minchella⁴, Guilherme C. Oliveira¹¹Centro de Pesquisas René Rachou - FIOCRUZ, Belo Horizonte - MG, Brazil, ²State University of New York, Buffalo, NY, United States, ³Minnesota State University, Mankato, MN, United States, ⁴Purdue University, West Lafayette, IN, United States

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CHEMOKINES CONTRIBUTING TO THE ELEVATED IFN- γ LEVEL BY GENE TRANSCRIPTION PROFILE ANALYSIS IN MICE VACCINATED WITH ULTRAVIOLET-ATTENUATED CERCARIAE OF *SCHISTOSOMA JAPONICUM***Xiang Zhu**, Zhao-Song Zhang, Min-Jun Ji, Hai-Wei Wu, Yong Wang, Guan-Ling Wu*Nanjing Medical University, Nanjing, Jiangsu, China*
(ACMCIP Abstract)

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CATIONIC AMINO ACID TRANSPORTER-2 NEGATIVELY REGULATES HEPATIC PATHOLOGY DURING MURINE SCHISTOSOMIASIS**Robert W. Thompson**¹, Allen W. Cheever¹, Lesley G. Ellies², Margaret Mentink-Kane¹, Thomas A. Wynn¹¹National Institutes of Health/National Institute of Allergy and Infectious Diseases/LPD, Bethesda, MD, United States,²Department of Medicine, UCSD Cancer Center, School of Medicine, University of California-San Diego, La Jolla, CA, United States

(ACMCIP Abstract)

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SCHISTOSOMA INTERCALATUM* AND SOIL TRANSMITTED HELMINTHIASIS IN ESEKA TOWN IN CAMEROON*Jean Pierre Tchinda**, Louis A. Tchuem Tchuente, Abraham Fomena*University of Yaounde I, Yaounde, Cameroon*

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ASSOCIATION BETWEEN ANIMAL AND HUMAN INTENSITY OF INFECTION WITH *SCHISTOSOMA JAPONICUM* IN SAMAR PROVINCE, THE PHILIPPINES**Hélène Carabin**¹, Stephen T. McGarvey², Ernesto Balolong³, Patrick Belise⁴, Tomas Fernandez⁵, Lawrence Joseph⁴, Veronica Tallo³, Ryan Gonzales³, Mushfiqur Tarafder¹, Portia Alday³, Remigio Olveda³¹University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, ²Brown University, Providence, RI, United States, ³Research Institute for Tropical Medicine, Manila, Philippines, ⁴McGill University, Montreal, QC, Canada, ⁵Leyte State University, Baybay, Leyte, Philippines

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HOST GENOME DISTRIBUTION AND PROMOTOR ACTIVITIES OF THE *SCHISTOSOMA MANSONI* LTR RETROTRANSPOSONS, *BOUDICCA* AND *SINBAD***Claudia S. Copeland**, Paul J. Brindley*Tulane University, New Orleans, LA, United States*

(ACMCIP Abstract)

500

CYTOKINE PRODUCTION ASSOCIATED WITH PERIportal FIBROSIS DURING CHRONIC SCHISTOSOMIASIS MANSONI IN HUMANS

Lucia Alves Oliveira Fraga¹, Elizabeth Castro Moreno², Giovanni Gazzinelli³, Olindo Assis Filho⁴, Alda Maria Silveira¹, Andrea Gazzinelli⁵, Luiz Cosme Cotta Malaquias¹, Philip LoVerde⁶, Pauline Martins Leite¹, Rodrigo Correa Oliveira⁷

¹Universidade Vale do Rio Doce, Gov. Valadares, Brazil, ²Fundacao Nacional de Saude- Minas Gerais, Belo Horizonte, Brazil, ³Centro de Pesquisas Rene Rachou - FIOCRUZ, Belo Horizonte, Brazil, ⁴Centro de Pesquisa Rene Rachou- FIOCRUZ, Belo Horizonte, Brazil, ⁵Fac. de Enfermagem, Belo Horizonte, Brazil, ⁶New York University at Buffalo, Buffalo, NY, United States, ⁷Centro de Pesquisas Rene Rachou-FIOCRUZ., Belo Horizonte, Brazil

Viruses – Other

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LISTER HOMOLOG OF VACCINIA VIRUS COMPLEMENT CONTROL PROTEIN IS TWO AMINO ACIDS SHORTER, HAS PUTATIVE GLYCOSYLATION SITES AND OTHER FUNCTIONAL AND STRUCTURAL DIFFERENCES

Odutayo O. Odunuga, Girish J. Kotwal
University of Cape Town, Cape Town, South Africa

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EVALUATION OF A MEASLES OUTBREAK RESPONSE STRATEGY IN NIAMEY, NIGER (2003-2004)

Christine Dubray¹, Andrea Gervelmeyer², Ali Djibo³, Florence Fermon⁴, Isabelle Jeanne⁵, Rebecca F. Grais¹, Philippe J. Guérin¹

¹Epicentre, Paris, France, ²EPIET, Solna, Sweden, ³Ministry of Health, Niamey, Niger, ⁴MSF, Paris, France, ⁵CERMES, Niamey, Niger

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ANALYSIS OF SOUTH AMERICAN EASTERN EQUINE ENCEPHALITIS VIRUSES ISOLATED FROM MOSQUITOES COLLECTED IN THE AMAZON BASIN REGION OF PERU

John P. Kondig, Michael J. Turell, John S. Lee, Monica L. O'Guinn, Leonard Wasieloski
USAMRIID, Fort Detrick, MD, United States

504

ARAGUARI VIRUS, A NEW MEMBER OF THE FAMILY ORTHOMYXOVIRIDAE: SEROLOGIC, ULTRASTRUCTURAL, AND MOLECULAR CHARACTERIZATION

Marcio Roberto T. Nunes
Evandro Chagas, Belem-Para, Brazil
(ACMCIP Abstract)

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ARBOVIRAL IGG ANTIBODY PREVALENCE IN THREE KENYAN DISTRICTS

Rodney L. Coldren¹, Victor O. Ofula², Trish J. Prosser³, Fredrick Ogolla⁴, Ferdinard Adungo⁴, Steven J. Gaydos⁵, Jennifer L. Gehrke⁶, Evan Scullin⁷, Nicholas Adungo⁴

¹Armed Forces Research Institute of Medical Science, Bangkok, Thailand, ²US Army Medical Research Unit - Kenya, Nairobi, Kenya, ³Edith Cowan University, Perth, Australia, ⁴Kenya Medical Research Institute, Busia, Kenya, ⁵Darnell Army Community Hospital, Fort Hood, TX, United States, ⁶University of Wisconsin Medical School, Madison, WI, United States, ⁷Royal College of Surgeons in Ireland, Dublin, Ireland

506

SUPPRESSION OF PROINFLAMMATORY CYTOKINES MAY CONTRIBUTE TO PERSISTENCE AND BEHAVIORAL TRANSMISSION OF SEOUL VIRUS AMONG MALE NORWAY RATS

Judy D. Easterbrook, Gregory E. Glass, Sabra L. Klein
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

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TAXONOMIC CHARACTERIZATION OF MINAÇU VIRUS AS NEW MEMBER OF FAMILY REOVIRIDAE, GENUS ORBIVIRUS

Livia C. Martins, Raimunda S. Azevedo, Eliana V. da Silva, Vera L. Barros, José A. Diniz, Hamilton A. Monteiro, **Pedro F. Vasconcelos**
Instituto Evandro Chagas, Belém, Brazil

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LEARNING THE HARD WAY: HEPATITIS A OUTBREAK AMONG SCHOOL FACULTY AND STUDENTS IN PAPUA, INDONESIA AFTER AN OUTDOOR EDUCATION PROGRAM

Dianne S. Mathews¹, Patrick J. Blair², Susan Widjaja², Suwardi Redjo³, **Edith R. Lederman**²
¹Hillcrest International School, Sentani, Indonesia, ²US NAMRU-2, Jakarta, Indonesia, ³Department of Health, Papua Province, Sentani, Indonesia

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EARLY EVENTS IN THE PATHOGENESIS OF EASTERN EQUINE ENCEPHALITIS VIRUS IN MICE

Peter Vogel, Wayne M. Kell, David L. Fritz, Michael D. Parker, **Randal J. Schoepp**
USAMRIID, Frederick, MD, United States

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GENETIC CHARACTERIZATION OF GEOGRAPHICALLY DISTINCT STRAINS OF CACHE VALLEY AND MAGUARI VIRUSES

Rebecca C. Langer-Curry¹, Marcio R. Nunes², Robert B. Tesh¹

¹University of Texas Medical Branch, Galveston, TX, United States,

²Instituto Evandro Chagas, Ministerio da Saude, Belem, Brazil

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FILLING THE GAP IN GLOBAL INFLUENZA SURVEILLANCE BY SUPPORTING OR ESTABLISHING NATIONAL INFLUENZA CENTERS

Samuel L. Yingst¹, Dina E. Salman², Hala M. Esmat², Michael Parker², Kenneth C. Earhart²

¹NAMRU-3, FPO, AE, United States, ²NAMRU-3, Cairo, Egypt

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SARS-COV REPLICATION KINETICS IN B129 MICE

Yong-Kyu Chu, Lois Allen, Barbara Taggart, Charles Gagliano, Elizabeth Frye, Colleen Jonsson

SRI, Birmingham, AL, United States

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EVALUATION OF THE DIAGNOSTIC SENSITIVITY AND SPECIFICITY OF THE ADENOPLEX ASSAY IN THE DETECTION OF ADENOVIRUS TYPE 4

Carl A. Coward

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

(ACMCIP Abstract)

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UPPER RESPIRATORY TRACT VIRAL PATHOGENS, CUSCO, PERU, 2000-2005

Gloria Chauca

US NMRC, APO AA, Peru

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CASE CONTROL STUDY TO EVALUATE RISK FACTORS FOR ACUTE HEPATITIS B VIRUS INFECTION IN EGYPT

Maha Talaat¹, Iman Khairy¹, Rana Hajjeh², Nasr El-Sayed³, Tharwat Ismail¹, Frank J. Mahoney²

¹US Naval Medical Research Unit, No.3, Cairo, Egypt, ²US Naval Medical Research Unit, No. 3 and Centers for Disease Control and Prevention, Cairo, Egypt, ³Ministry of Health and Population, Cairo, Egypt

516

MOSQUITO TRANSMISSION OF VENEZUELAN EQUINE ENCEPHALITIS VIRUS AND ITS EFFECT ON MURINE PATHOGENESIS

Darci R. Smith, Patricia V. Aguilar, Lark L. Coffey, Gregory D. Gromowski, Eryu Wang, Anne-Sophie Carrara, Scott C. Weaver

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

Bacteria — Systemic Infections

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ATYPICAL LYMPHOCYTOSIS IN A CASE OF LEPTOSPIROSIS-POSSIBLE RELATIONSHIP TO A GAMMA DELTA T CELL IMMUNOLOGIC RESPONSE

Michele Barry¹, Adam Wisnewski¹, Sharon Inouye¹, Joseph Vinetz²

¹Yale University School of Medicine, New Haven, CT, United States,

²University of California at San Diego, San Diego, CA, United States

Clinical Tropical Medicine

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BONE MARROW CULTURES TO DETECT ENTERIC FEVER IN CHILDREN IN PAKISTAN

Megan E. Reller¹, Furqan Hasan²

¹Childrens Hospital Boston, Boston, MA, United States, ²National Institute for Child Health, Karachi, Pakistan

ACMCIP Abstracts — Molecular, Cellular and Immunoparasitology

144, 165, 170, 175, 242, 252, 267, 286, 288, 289, 290, 292, 296, 302, 306, 307, 308, 309, 310, 311, 312, 313, 314, 318, 321, 322, 323, 324, 325, 326, 327, 343, 360, 371, 382, 387, 389, 392, 393, 394, 395, 397, 398, 399, 400, 402, 403, 404, 408, 410, 412, 416, 417, 418, 420, 425, 426, 436, 437, 445, 485, 487, 490, 495, 496, 499, 504, 513

Mid-Day Session Attendees:

We invite you to pick up a box lunch in the exhibit hall to bring to your session.

Mid-Day Session 70**History of Medicine: Kyasanur Forest Disease (Movie)**

Monroe East

Tuesday, December 13

12:05 – 1:20 p.m.

“The Story of Kyasanur Forest Disease,” filmed in 1956-1957 by Telford H. Work, then director of the Virus Research Center in Poona, India. (69 minutes)

In this film, Work uses his camera as others use a notebook, systematically recording step-by-step the investigation of what was to become second after Yellow Fever a new viral hemorrhagic disease affecting both primates and humans. It gives an insight into the different field and laboratory techniques which led to the rapid elucidation of KFD, and ends with different attempts at control and prevention.

Meet the Professors 71

Meet the Professors C: Enigmatic and Teaching Cases

Supported with funding from GlaxoSmithKline

Lincoln East

Tuesday, December 13 12:15 – 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.

SESSION ORGANIZER

Alan Spira

The Travel Medicine Center, Beverly Hills, CA, United States

CHAIR

Elaine Jong

University of Washington, Seattle, WA, United States

PANELISTS

David Hill

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

Joseph M. Vinetz

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

Mid-Day Session 72

Bioinformatics Resources for Tropical Diseases: NCBI Resource Update

Jefferson East

Tuesday, December 13 12:15 – 1:15 p.m.

The U.S. National Center for Biotechnology Information at the National Institutes of Health is the U.S. national resource for molecular biology information. NCBI develops software and databases to better understand fundamental molecular and genetic processes that control health and diseases. NCBI makes these resources including GenBank, PubMed, BLAST, etc. freely available to the public. This session provides an update of new computational tools including genome analysis and databases available at NCBI for tropical disease research. More detail information is available at: <http://www.ncbi.nlm.nih.gov/>

Chuong Huynh

National Institutes of Health/NLM/NCBI, Bethesda, MD, United States

Mid-Day Session 72A

Bioregulation: Permitting and Shipping of Pathogens and Vectors

Georgetown East

Tuesday, December 13 12:15 – 1:15 p.m.

The recent concerns for the use and shipment of biological specimens (e.g., pathogens and vectors) have resulted in confusion about the permits required for transporting these specimens and methods for obtaining these permits. A panel of experts from various regulatory organizations will discuss the need for these permits, where and when these permits will be required, and how to obtain them.

CHAIR

Edward D. Walker

Michigan State University, East Lansing, MI, United States

Michael J. Turell

USAMRIID, Fort Detrick, MD, United States

BIOREGULATION: PERMITTING AND SHIPPING OF PATHOGENS AND VECTORS

Edward D. Walker

Michigan State University, East Lansing, MI, United States and Michael Turell, USAMRIID, Fort Detrick, MD, United States

Poster Session A Dismantle

Exhibit Hall

Tuesday, December 13 1:30 – 1:45 p.m.

Scientific Session 73

Flavivirus – Dengue II

Lincoln East

Tuesday, December 13 1:30 – 3:15 p.m.

CHAIR

Kathryn Hanley

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

Anna P. Durbin

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

1:30 p.m.

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CELLULAR TROPISM OF DENGUE VIRUS INFECTION IN MICE AFTER SUBCUTANEOUS INJECTION

Jennifer L. Kyle, Sujan Shresta, P. Robert Beatty, Eva Harris
University of California-Berkeley, Berkeley, CA, United States

1:45 p.m.

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IN VITRO AND IN VIVO PHENOTYPES OF DENGUE VIRUS SEROTYPE 3, SUBTYPE III LINEAGES ASSOCIATED WITH MILD OR SEVERE DISEASE OUTBREAKS

Kathryn A. Hanley¹, Erin E. Schirtzinger¹, Christopher T. Hanson², Stephen S. Whitehead²

¹New Mexico State University, Las Cruces, NM, United States,

²Laboratory of Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

2 p.m.

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DENGUE VIRUS ENVELOPE PROTEIN GLYCOSYLATION AND INTERACTIONS WITH DENDRITIC CELLS

Kari E. Hacker, Aravinda DeSilva

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

2:15 p.m.

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THE ROLE OF PRE-EXISTING DENGUE VIRUS (DV)-SPECIFIC ANTIBODY-DEPENDENT CELLULAR CYTOTOXICITY IN HETEROLOGOUS SECONDARY DENGUE VIRUS INFECTIONS

Kamolwish Laoprasopwattana¹, Daniel H. Libraty², Timothy P. Endy³, Ananda Nisalak⁴, Supamit Chunsuttiwat⁵, David W. Vaughn⁶, Francis A. Ennis², Alan L. Rothman², **Sharone Green**²

¹Songklanagarind Hospital, Songkhla, Thailand, ²University of Massachusetts Medical School, Worcester, MA, United States,

³Walter Reed Army Institute of Research, Washington, DC, United States, ⁴Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁵Ministry of Public Health, Bangkok, Thailand,

⁶U.S. Army Medical Research and Materiel Command, Fort Detrick, MD, United States

2:30 p.m.

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DENGUE FEVER IN HUMANIZED NOD/SCID MICE

Dennis A. Bente¹, Michael W. Melkus², J. Victor Garcia², Rebeca Rico-Hesse¹

¹Southwest Foundation For Biomedical Research, San Antonio, TX, United States, ²University of Texas Southwestern Medical Center, Dallas, TX, United States

2:45 p.m.

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DEVELOPMENT OF A RAPID AND QUANTITATIVE ASSAY TO STUDY DENGUE VIRUS ANTIBODY INTERACTIONS USING A DC-SIGN- EXPRESSING HUMAN MONOCYTTIC CELL LINE

Annette A. Kraus, Alden K. Casati, Tem Morrison, Mark Heise, Aravinda M. de Silva

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

3 p.m.

523

DENGUE 2 VIRUS FUSION IS INHIBITED WITH MONOCLONAL ANTIBODIES AND SYNTHETIC PEPTIDES SPECIFIC TO THE ENVELOPE GLYCOPROTEIN

Amanda E. Calvert, John T. Roehrig

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

Scientific Session 74

Malaria — Immunology I

Lincoln West

Tuesday, December 13

1:30 – 3:15 p.m.

CHAIR

Stephen Rogerson

University of Melbourne, Parkville, Victoria, Australia

Douglas Perkins

University of Pittsburgh, Pittsburgh, PA, United States

1:30 p.m.

524

ELISPOT DETECTION OF CYTOKINE RESPONSES TO MALARIAL ANTIGENS IN PERIPHERAL AND PLACENTAL BLOOD OF MALARIA AND MALARIA/HIV CO-INFECTED KENYAN WOMEN

Julie M. Moore¹, Simon O. Owino¹, Moses Sichangi¹, David E. Lanar², Sheetij Dutta², Caroline Othoro³, Juliana Otieno⁴, John Vulule⁵, Laurence Slutsker⁶, Venkatachalam Udhayakumar⁷, Ya Ping Shi⁷

¹University of Georgia, Athens, GA, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³New York University, New York, NY, United States, ⁴Ministry of Health, Kisumu, Kenya, ⁵Kenya Medical Research Institute, Kisumu, Kenya, ⁶Centers for Disease Control and Prevention/KEMRI, Kisumu, Kenya, ⁷Centers for Disease Control and Prevention, Chamblee, GA, United States

(ACMCIP Abstract)

1:45 p.m.

525

DOES A LACK OF ANTIBODY TO PREGNANCY-ASSOCIATED MALARIA CONTRIBUTE TO POOR PREGNANCY OUTCOMES OF HIV INFECTED WOMEN?

Stephen Rogerson¹, Francisca Yosaatmadja¹, Richard Pranantyo¹, Dewi Ulfa¹, Adele Mount¹, Malcolm Molyneux², Victor Mwapasa³, Steven Meshnick⁴

¹University of Melbourne, Parkville, Victoria, Australia, ²Malawi-Liverpool-Wellcome Trust Clinical Research Programme, College of Medicine, Blantyre, Malawi, ³College of Medicine, Blantyre, Malawi, ⁴University of North Carolina, Chapel Hill, NC, United States

(ACMCIP Abstract)

2 p.m.

526

PLACENTAL MALARIA IS RELATED TO HYPERTENSION AND INCREASED SERUM SFLT1 LEVELS IN YOUNG NULLIPARAS BUT NOT OTHER WOMEN**Atis Muehlenbachs**¹, Theonest K. Mutabingwa², Sally Edmonds³, Michal Fried⁴, Patrick E. Duffy⁴¹University of Washington, Seattle, WA, United States, ²LSTMH and National Institute for Medical Research, Dar es Salaam, Tanzania, ³Dar es Salaam, United Republic of Tanzania, ⁴Muheza Designated District Hospital, Muheza, United Republic of Tanzania, ⁴MOMS Project, Seattle Biomedical Research Institute, Seattle, WA, United States

(ACMCIP Abstract)

2:15 p.m.

527

SUPPRESSION OF CIRCULATING RANTES IS ASSOCIATED WITH ENHANCED PATHOGENESIS OF MALARIAL ANEMIA IN KENYAN CHILDRENTom Were¹, Collins Ouma¹, Richard O. Otieno¹, Alloys S. Orago², John Michael Ong'echa¹, **Douglas J. Perkins**³¹University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, ²National AIDS Control Council, Nairobi, Kenya, ³Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States

(ACMCIP Abstract)

2:30 p.m.

528

EFFECTS OF CONCOMITANT *SCHISTOSOMA HAEMATOBIIUM* INFECTION ON THE SERUM CYTOKINE LEVELS ELICITED BY ACUTE *PLASMODIUM FALCIPARUM* MALARIA INFECTION IN MALIAN CHILDREN**Kirsten E. Lyke**¹, Abdoulaye Dabo², Lansana Sangare², Charles Arama², Modibo Dra², Issa Diarra², Christopher V. Plowe¹, Ogobara K. Doumbo², Marcelo B. Sztein¹¹University of Maryland, Center for Vaccine Development, Baltimore, MD, United States, ²Malaria Research and Training Center, University of Bamako, Bamako, Mali

2:45 p.m.

529

HLA-DRB1*04 ALLELE IS ASSOCIATED WITH SEVERE MALARIA IN NORTHERN GHANA**Awo D. Osafo-Addo**¹, Kwadwo A. Koram¹, Michael Wilson¹, Abraham R. Oduro², William O. Rogers³¹Noguchi Memorial Institute For Medical Research, Legon - Accra, Ghana, ²Navrongo Health Research Center, Navrongo, Ghana, ³Naval Medical Research Unit 3, Cairo, Egypt

(ACMCIP Abstract)

3 p.m.

530

CLASS II TETRAMER STAINING OF *PLASMODIUM FALCIPARUM*-SPECIFIC HUMAN CD4+ T CELLS**J. Mauricio Calvo-Calle**¹, Carlos Parra-Lopez², Lawrence J. Stern³, Elizabeth H. Nardin¹¹New York University School of Medicine, Department of Medical Parasitology, New York, NY, United States, ²Fundacion Instituto de Inmunologia de Colombia, Bogota, Colombia, ³University of Massachusetts School of Medicine, Department of Pathology and Biochemistry, Worcester, MA, United States

(ACMCIP Abstract)

Symposium 75**Medical Malpractice of Exclusionary Policies Against Indoor Spraying for Malaria Control**

Jefferson East

Tuesday, December 13

1:30 – 3:15 p.m.

Exclusionary policies and actions that prevent countries from using indoor spraying to control malaria and other diseases will be described. The impact of exclusionary policies on human health, both within and outside Africa, will be presented. Presenters will provide an update on legislation underway in Congress to help alleviate the problems of exclusionary policies of US agencies and to redirect policies governing how public funds are used to support malaria control. The chemical and biological basis for the continuing need for DDT and indoor spraying will be presented. This will be followed by descriptions of chemical actions of DDT and other insecticides that are currently recommended for indoor spraying. This symposium will conclude with a brief update on indoor spraying in malaria control programs in Africa and the barriers that African countries are encountering in their efforts to start or restart house spray programs.

CHAIR

Donald R. Roberts

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

Amir Attaran

University of Ottawa, Institute of Population Health and Faculty of Law, Ottawa, ON, Canada

1:30 p.m.

IMPACT OF EXCLUSIONARY POLICIES AGAINST INDOOR SPRAYING ON MALARIA CONTROL

Donald R. Roberts

Uniformed Services University of the Health Sciences, Department of Preventive Medicine and Biometrics, Bethesda, MD, United States

2 p.m.**ACTIONS OF SELECTED INSECTICIDES FOR INDOOR RESIDUAL SPRAYING**

John P. Grieco

*Uniformed Services University of the Health Sciences, Bethesda, MD, United States***2:25 p.m.****LEGISLATIVE AND POLICY CONSIDERATIONS IN U.S.-FUNDED MALARIA INITIATIVES**

Katy French

*United States Senate, Subcommittee on Federal Financial Management, Government Information and International Security, Office of the Chairman, Washington, DC, United States***2:50 p.m.****INDOOR RESIDUAL SPRAYING WITH DDT IN AFRICA: RECENT RESULTS AND CHALLENGES**

Richard J. Tren

*Africa Fighting Malaria, Johannesburg, South Africa***Symposium 76****From Aquatic Habitats of Anopheline Mosquitoes to the Disease Burden of Malaria: Larval Interventions from the Habitat Perspective***Jefferson West*

Tuesday, December 13

1:30 – 3:15 p.m.

The renewed interest in the role of larval interventions in combating malaria in Africa has resulted in sprawling of information regarding new control strategies of malaria. This symposium will bring together experimental, observational and theoretical research in relation to larval ecology, habitat characterization and modeling. We emphasize that larval interventions should take into account heterogeneity in adult productivity among a variety of aquatic habitats. Habitat-based larval interventions can have a great potential in alleviating malaria burden in Africa, especially in low and intermediate transmission areas.

CHAIR

Robert Novak*Illinois Natural History Survey, Champaign, IL, United States***Weidong Gu***Illinois Natural History Survey, Champaign, IL, United States***1:30 p.m.****HABITAT-BASED MODELING OF LARVAL INTERVENTIONS ON THE DISEASE BURDEN OF MALARIA**

Weidong Gu

*Illinois Natural History Survey, Champaign, IL, United States***2 p.m.****ANOPHLES LARVAE IN URBAN SETTINGS: ECOLOGY AND HABITATS**

John Beier

*University of Miami, Miami, FL, United States***2:25 p.m.****ANOPHLES LARVAL HABITAT AVAILABILITY, PRODUCTIVITY AND ADULT ABUNDANCE IN WESTERN KENYA HIGHLANDS**

Guiyun Yan

*State University of New York, Buffalo, NY, United States***2:50 p.m.****LARVAL CONTROL IN ACTION: A REVIEW OF CURRENT PROJECTS OF INTERVENTIONS AND A FUTURE PROSPECTIVE**

Robert Novak

*Illinois Natural History Survey, Champaign, IL, United States***Symposium 77****Impact of Pre-existing Immunity on Development of Viral-Vectored Vaccines***Georgetown East*

Tuesday, December 13

1:30 – 3:15 p.m.

Numerous viral vectors are currently being evaluated as vaccine vehicles. One of the potential obstacles facing the eventual use of many viral-vectored vaccines is the prevalence of pre-existing immunity against the vector in many target vaccine populations. This symposium will focus on the problems and potential solutions that pre-existing immunity will have on the development of viral-vectored vaccines.

CHAIR

Keith Limbach*Naval Medical Research Center, Silver Spring, MD, United States***1:30 p.m.****STRATEGIES FOR HIV VACCINE DEVELOPMENT**

John Shiver

*Merck and Company, Inc., West Point, PA, United States***2 p.m.****ADENOVIRUS TYPE 35 VACCINE VECTORS**

Jaap Goudsmit

*Cruceil N.V., Leiden, The Netherlands***2:25 p.m.****PRE-EXISTING IMMUNITY TO VACCINIA AND DNA/MVA VACCINES FOR HIV**

Rama Amara

*Emory University, Atlanta, GA, United States***2:50 p.m.****ADENOVIRUS TYPE 5 VACCINE VECTORS**

Jason Gall

GenVec, Gaithersburg, MD, United States

Scientific Session 78

Filariasis I

Georgetown West

Tuesday, December 13 1:30 – 3:15 p.m.

CHAIR

Hanan Helmy

Ain Shams University, Cairo, Egypt

Daniel J. Tisch

Case Western Reserve University, Cleveland, OH, United States

1:30 p.m.

531

THE STATUS OF FOREST ONCHOCERCIASIS IN THE LOWER CROSS RIVER BASIN NIGERIA: CLINICAL AND PARASITOLOGICAL PROFILES AFTER SIX YEARS OF IVERMECTIN INTERVENTION

Kenneth N. Opara¹, Olakunle B. Fagbemi², Ukam E. Oyene³, Hilary A. Adie³, Inyang A. Atting⁴, Daniel MN Okenu⁵

¹*Department of Zoology, University of Uyo, Uyo, Nigeria,*

²*Department of Veterinary Microbiology and Parasitology,*

University of Ibadan, Ibadan, Nigeria,

³*Cross River State Onchocerciasis Control Program, Ministry of Health, Calabar,*

Nigeria,

⁴*Department of Medical Microbiology, College of Health*

Sciences, University of Uyo, Uyo, Nigeria,

⁵*Division of Infectious Diseases, Department of Medicine, Emory University School of*

Medicine, Atlanta, GA, United States

1:45 p.m.

532

OBSERVATIONS ON THE EFFICACY OF IVERMECTIN ON ONCHOCERCA VOLVULUS MICROFILARIAE AFTER 17 YEARS OF TREATMENT IN GHANA

Mike Y. Osei-Atweneboana¹, Daniel A. Boakye², John Gyapong³, Roger K. Prichard¹

¹*McGill University, St. Anne-De-Bellevue, PQ, Canada,*

²*Noguchi Memorial Institute for Medical Research, Accra, Ghana,*

³*Health Research Unit, Accra, Ghana*

2 p.m.

533

A SEROLOGICAL ASSESSMENT FOR THE CERTIFICATION OF ELIMINATION OF ONCHOCERCA VOLVULUS IN THE SANTA ROSA FOCUS OF GUATEMALA

Kim A. Lindblade¹, Byron Arana², Guillermo Zea Flores³, Adria Prosser⁴, Nancy Cruz Ortiz², George Punksoddy⁴, Carlos Mendoza², Jane Richards⁵, Miguel Estuardo Barrios Giron², Robert E. Klein¹, Frank Richards⁶

¹*Centers for Disease Control and Prevention, Guatemala City,*

Guatemala,

²*Medical Epidemiology, Research and Training Unit/Centers for Disease Control and Prevention, Guatemala City,*

Guatemala,

³*Onchocerciasis Elimination Program of the Americas,*

Guatemala City, Guatemala,

⁴*Centers for Disease Control and Prevention, Atlanta, GA, United States,*

⁵*Tulane University, New Orleans, LA, United States,*

⁶*Carter Center, Atlanta, GA, United States*

2:15 p.m.

534

IMPACT OF MASS DRUG ADMINISTRATION ON WUCHERERIA BANCROFTI INFECTION RATES IN MOSQUITOES IN PAPUA NEW GUINEA

Sandra J. Laney¹, Melinda Susapu², Gary J. Weil³, Steven A. Williams¹, Moses J. Bockarie²

¹*Smith College, Northampton, MA, United States,*

²*Institute for Medical Research, Madang, Papua New Guinea,*

³*Washington University School of Medicine, St. Louis, MO, United States*

(ACMCIP Abstract)

2:30 p.m.

535

LONGITUDINAL ANALYSIS OF ACUTE LYMPHATIC FILARIASIS IN PAPUA NEW GUINEA: EVALUATION OF ANNUAL MASS DRUG ADMINISTRATION ON DISEASE

Daniel J. Tisch¹, Neal D. Alexander², Will Kastens¹, Moses J. Bockarie³, James W. Kazura¹

¹*Case Western Reserve University, Cleveland, OH, United States,*

²*London School of Hygiene and Tropical Medicine, London, United Kingdom,*

³*PNGIMR, Madang, Papua New Guinea*

2:45 p.m.

536

COMPLIANCE AND EFFICACY OF MASS DRUG ADMINISTRATION FOR ELIMINATION OF LYMPHATIC FILARIASIS IN EGYPT

Maged El Setouhy¹, Khaled Abdel Aziz¹, Ehab S. Ahmed¹, Reda M. Ramzy¹, Gary J. Weil²

¹*Ain Shams University, Cairo, Egypt,*

²*Washington University, School of Medicine, St. Louis, MO, United States*

3 p.m.

537

ASSESSING FILARIAL INFECTION PREVALENCE AND TRANSMISSION IN A LOW-PREVALENCE AREA OF NORTHERN HAITI AFTER TWO ROUNDS OF ANNUAL MASS TREATMENT

Caroline Grady¹, Madsen Beau de Rochars², Abdel Direny², Marie Denise Milord³, Els Mathieu¹, Allen Hightower¹, David Addiss¹, Thomas Streit⁴, Patrick Lammie¹

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

²*Filariasis Program, Hopital Sainte Croix, Leogane, Haiti,*

³*National Program to Eliminate Lymphatic Filariasis, Ministry of Public Health and Population, Port-au-Prince, Haiti,*

⁴*University of Notre Dame, Notre Dame, IN, United States*

Symposium 78A

Clinical Group I

Supported with funding from International Association for Medical Assistance to Travelers

International Ballroom East

Tuesday, December 13 1:30 – 3:15 p.m.

This symposium will feature the Marcolongo Lecture and a report on new arthropod repellents and tropical disease vectors.

CHAIR

David Freedman

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

A. Clinton White

Baylor College of Medicine, Houston, TX, United States

1:30 p.m.

VINCENZO MARCOLONGO MEMORIAL LECTURE. CYSTIC ECHINOCOCCOSIS: TO TREAT OR NOT TO TREAT?

Enrico Brunetti

University of Pavia, Pavia, Italy

2:30 p.m.

NEW ARTHROPOD REPELLENTS AND TROPICAL DISEASE VECTORS – 2005 UPDATE

Vernon Ansdell

Kaiser Permanente, Honolulu, HI, United States

Scientific Session 79

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) – Cellular Parasitology I

Supported with funding from the Burroughs Wellcome Fund

International Ballroom West

Tuesday, December 13 1:30 – 3:15 p.m.

CHAIR

David Williams

Illinois State University, Normal, IL, United States

Beth D. Kirkpatrick

University of Vermont College of Medicine, Burlington, VT, United States

1:30 p.m.

1105

FLAGELLAR MOTILITY IS ESSENTIAL FOR CYTOKINESIS IN *TRYPANOSOMA BRUCEI* AND IS MODULATED BY AN EVOLUTIONARILY-CONSERVED DYNEIN REGULATORY SYSTEM

Katherine Ralston, Alana Lerner, Kent Hill

University of California at Los Angeles, Los Angeles, CA

1:45 p.m.

538

ROLE OF CAVEOLAE IN LEISHMANIA CHAGASI PHAGOCYTOSIS AND INTRACELLULAR SURVIVAL IN MACROPHAGES

Nilda E. Rodriguez, Upasna Gaur, Mary E. Wilson

University of Iowa, Iowa City, IA, United States

2 p.m.

539

SCHISTOSOMA MANSONI PRX PROTEINS: ARE THEY A NEW DRUG TARGET?

Ahmed A. Sayed, David L. Williams

Illinois State University, Normal, IL, United States

2:15 p.m.

540

MOUSE STRAIN DEPENDENT SUSCEPTIBILITY TO INTESTINAL AMEBIASIS

Amon Asgharpour, Shinjiro Hamano, Marcia McDuffie,

Eric R. Houpt

University of Virginia, Charlottesville, VA, United States

2:30 p.m.

541

PROTEOLYTIC PROCESSING OF *CRYPTOSPORIDIUM PARVUM* GLYCOPROTEIN GP40/15

Jane W. Wanyiri¹, R. O'Connor¹, K. Kim², J. Qiu³, A. Plaut³, H. D. Ward¹

¹Tufts-New England Medical Center, Boston, MA, United States,

²Albert Einstein College of Medicine, New York, NY, United States,

³GRASP Digestive Diseases Center, Tufts-New England Medical Center, Boston, MA, United States

2:45 p.m.

542

INFECTIVE FORMS OF *LEISHMANIA (L.) AMAZONENSIS* AVOID MACROPHAGE SURVEILLANCE BY EXPOSING PHOSPHATIDYLSERINE

João L. Wanderley¹, Lucia H. Pinto-da-Silva¹, Elvira M. Saraiva², Adriana Bonomo¹, Maria E. Moreira¹, Lynn Soong³, Marcello A. Barcinski⁴

¹National Cancer Institute, Rio de Janeiro, Brazil, ²Institute of

Microbiology - Federal University of Rio de Janeiro, Rio de Janeiro,

Brazil, ³Institute for Human Infections and Immunity, University of

Texas Medical Branch, Galveston, TX, United States, ⁴University of São Paulo, Parasitology Department, São Paulo, Brazil

3 p.m.

543

**SOLUBLE AND MEMBRANE ASSOCIATED
P. FALCIPARUM FACTORS INDUCE ICAM-1 EXPRESSION
ON HUMAN BRAIN ENDOTHELIUM THROUGH NFκB**

Abhai K. Tripathi¹, David J. Sullivan¹, Monique F. Stins²

¹Department of Molecular Microbiology and Immunology, School of Public Health, Johns Hopkins University, Baltimore, MD, United States, ²Department of Pediatric Infectious Disease, School of Medicine, Johns Hopkins University, Baltimore, MD, United States

Poster Session B Setup

Exhibit Hall

Tuesday, December 13 3 - 3:45 p.m.

Exhibit Hall Open

Exhibit Hall

Tuesday, December 13 3 - 4 p.m.

Coffee Break

Exhibit Hall

Tuesday, December 13 3:15 - 3:45 p.m.

Poster Session B Viewing

Exhibit Hall

Tuesday, December 13 3:45 - 7 p.m.

Symposium 80

Parasite and Host Gene Expression in Malaria

Monroe East

Tuesday, December 13 3:45 - 5:30 p.m.

With the advent of genomics and the widespread availability of microarrays to assess gene expression, there are now opportunities to examine parasite and host gene expression that have not existed previously. In this symposium, four investigators will present results which examine: 1] parasite gene expression during treatment with antimalarials, 2] host gene expression in a non-human primate model of human *P. vivax* malaria (*P. cynomolgi* in the rhesus monkey), 3] host gene expression in humans with naturally-acquired *P. falciparum* infection, and 4] host gene expression in non-immune human volunteers challenged with malaria parasites.

CHAIR

Donald J. Krogstad

Tulane University, New Orleans, LA, United States

Wilbur A. Milhous

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

3:45 p.m.

PARASITE GENE EXPRESSION DURING TREATMENT WITH ANTIMALARIALS *IN VITRO*

Karen Kopydlowski

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

4:15 p.m.

NON-HUMAN PRIMATE MODEL OF HUMAN *P. VIVAX* MALARIA: *P. CYNOMOLGI* IN THE RHESUS MONKEY

Frank B. Cogswell

Tulane National Primate Research Center, Covington, LA, United States

4:40 p.m.

HUMAN SUBJECTS IN MALI WITH *P. FALCIPARUM* MALARIA

Ousmane A. Koita

Faculties of Science and Medicine, University of Bamako, Bamako, Mali

5:05 p.m.

HOST RESPONSES TO MALARIA IN CHALLENGED NON-IMMUNE HUMAN VOLUNTEERS

Christian F. Ockenhouse

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

Scientific Session 81

Ectoparasite-Borne Diseases I

Monroe West

Tuesday, December 13 3:45 - 5:30 p.m.

CHAIR

Ivo M. Foppa

University of South Carolina, Columbia, SC, United States

Wei-Mei Ching

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

3:45 p.m.

UPDATE: WHAT'S NEW WITH SCRUB TYPHUS: RECENT ADVANCES IN VACCINES, VECTORS, GENETICS, DIAGNOSTICS AND EPIDEMIOLOGY

Daryl J. Kelly

The Ohio State University, Columbus, OH, United States

Tuesday, December 13

4:15 p.m.

544

IDENTIFICATION OF *RICKETTSIA SPP.* IN TICKS COLLECTED IN BAVARIA, SOUTH-GERMANY**Roman Wolfel**¹, Martin Pfeffer¹, Sandra Essbauer¹, Judith Kiessling², Sonja Wilhelm³, Gerhard Dobler¹¹Bundeswehr Institute of Microbiology, Munich, Germany, ²Institute of Medical Microbiology, Epidemic and Infectious Diseases, LMU Munich, Germany, ³Institute of Animal Hygiene and Veterinary Public Health, University of Leipzig, Germany

4:30 p.m.

545

NOVEL *RICKETTSIA*-LIKE AMPLICONS RECOVERED FROM *DERMACENTOR*, *AMBLIOMMA*, AND *IXODES* TICKS IN MARYLAND**Katherine Swanson**¹, Nicole Ammerman², Aimee West¹, Douglas Norris¹¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²University of Maryland School of Medicine, Baltimore, MD, United States

4:45 p.m.

546

QUESTING DOG TICKS ON MARTHA'S VINEYARD ARE INFECTED WITH MULTIPLE CLONES OF THE AGENT OF TULAREMIA**Heidi Goethert**, Sam Telford

Tufts University School of Veterinary Medicine, N. Grafton, MA, United States

5 p.m.

547

IXODES SCAPULARIS* CAN SUPPRESS HOST CYSTEINE PROTEASE ACTIVITY IN THE SITES OF BLOOD FEEDING*Michail Kotsyfakis**, John F. Andersen, Ivo M. Francischetti, Jose M. Ribeiro

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

(ACMCIP Abstract)

5:15 p.m.

548

DIVERSITY OF *BORRELIA BURGdorferi* OSPC IN PERSISTENTLY INFECTED *PEROMYSCUS LEUCOPUS***Katherine Swanson**, Douglas Norris

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

Scientific Session 82**Flavivirus — Vaccines**

Lincoln East

Tuesday, December 13

3:45 – 5:30 p.m.

CHAIR

Scott B. Halstead

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

David W. Vaughn

U.S. Army Medical Research and Materiel Command, Fort Detrick, MD, United States

3:45 p.m.

549

A DENGUE-VEE REPLICON PARTICLE VACCINE INDUCES THE BEST IMMUNE RESPONSE IN A PRIME-BOOST REGIMEN**Kevin R. Porter**¹, Daewan Kim¹, Lan Chen¹, Hemavathy Subramanian¹, Martha Sedegah¹, Jonathan O. Rayner², Kimberly D. Alterson², Curtis G. Hayes¹, Kanakatte Raviprakash¹¹Naval Medical Research Center, Silver Spring, MD, United States,²AlphaVax Inc., Research Triangle Park, NC, United States

4 p.m.

550

THE LIVE ATTENUATED DENGUE SEROTYPE 1 VACCINE RDEN1DELTA30 IS SAFE AND IMMUNOGENIC IN HEALTHY VOLUNTEERSJulie H. McArthur¹, Jennifer A. Marron¹, Bhavin Thumar¹, Kimberli Wanionek¹, Janece Lovchik¹, Ruth A. Karron¹, Brian R. Murphy², Joseph E. Blaney³, Stephen S. Whitehead², **Anna P. Durbin**¹¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ³National Institute Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

4:15 p.m.

551

PROGRESS ON LIVE-ATTENUATED DENGUE VIRUS VACCINES CONTAINING A TETRAVALENT FORMULATION OF RECOMBINANT VIRUSES**Joseph E. Blaney**¹, Christopher T. Hanson¹, Cai-Yen Firestone¹, Anna P. Durbin², Brian R. Murphy¹, Stephen S. Whitehead¹¹National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

4:30 p.m.

552

SAFETY, VIREMIA AND IMMUNOGENICITY OF A TETRAVALENT LIVE ATTENUATED CHIMERIVAX DENGUE VACCINE IN HEALTHY US ADULTS

Niranjan Kanesa-thasan¹, Dennis Morrison², Remi Forrat³, Alison Deary⁴, Karen McCarthy⁴, Rick Nichols¹, Sutee Yoksan⁵, Farshad Guirakhoo¹, Jean Lang³, Philip Bedford⁴, Thomas Monath¹

¹Acambis, Inc., Cambridge, MA, United States, ²Bio-kinetic, Springfield, MO, United States, ³sanofi pasteur, Lyon, France, ⁴Acambis, Inc., Cambridge, United Kingdom, ⁵Mahidol University, Salaya, Thailand

4:45 p.m.

553

RANDOMISED, DOUBLE-BLIND, PHASE 2 STUDY OF THE SAFETY, IMMUNOGENICITY AND DURATION OF IMMUNITY OF CHIMERIVAX™-JE LIVE, ATTENUATED VACCINE AGAINST JAPANESE ENCEPHALITIS (JE) IN HEALTHY ADULTS: RESPONSE TO BOOSTER VACCINATION AND ONE YEAR FOLLOW-UP

Niranjan Kanesa-thasan¹, Peter Nasveld², Scott Kitchener³, Matt Dobson⁴, Alison Deary⁴, John Stone⁴, Karen McCarthy⁴, Philip Bedford⁴, Sutee Yoksan⁵, Rick Nichols¹, Thomas Monath¹

¹Acambis, Inc., Cambridge, MA, United States, ²Army Malaria Institute, Brisbane, Australia, ³University of Queensland, Brisbane, Australia, ⁴Acambis, Inc., Cambridge, United Kingdom, ⁵Mahidol University, Bangkok, Thailand

5 p.m.

554

VIRUS REPLICATION OF A WEST NILE VACCINE, CHIMERIVAX™-WNO2 IN NON-HUMAN PRIMATES

J. Jian Liu, Thomas T. Monath, **John Hamberger**, Weiping Chen, Gwen Myers, Svjetlana Pilja, Farshad Guirakhoo
Acambis, Inc., Cambridge, MA, United States

5:15 p.m.

555

A RECOMBINANT SUBUNIT VACCINE FOR WEST NILE VIRUS YIELDS EFFICACIOUS AND DURABLE PROTECTION IN THE GOLDEN HAMSTER MODEL OF LETHAL WEST NILE ENCEPHALITIS

Michael M. Lieberman¹, Douglas Watts², Robert Tesh², David Clements¹, Steven Ogata¹, Teri Wong¹, Gordon Wang¹, James Senda¹, Gloria Corpuz¹, Amelia Travassos da Rosa², Marina Siirin², Beth-Ann Collier¹, Carolyn Weeks-Levy¹

¹Hawaii Biotech, Inc., Aiea, HI, United States, ²University of Texas Medical Branch, Galveston, TX, United States

Scientific Session 83**Malaria — Immunology II**

Lincoln West

Tuesday, December 13

3:45 – 5:30 p.m.

CHAIR

James Burns

Drexel University College of Medicine, Philadelphia, PA, United States

Evelina Angov

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

3:45 p.m.

556

PREVALENCE OF MEROZOITE SURFACE PROTEIN-1 19KDA HAPLOTYPES AT A MALARIA VACCINE TESTING SITE IN BANDIAGARA, MALI

Shannon L. Takala¹, Drissa Coulibaly², Mahamadou A. Thera², Alassane Dicko², David L. Smith³, Ando B. Guindo², Abdoulaye K. Kone², Amed Ouattara¹, Abdoulaye Djimde², Paul Sehdev¹, Kirsten Lyke¹, Dapa Diallo², Christopher V. Plowe¹, Ogobara K. Doumbo²

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²University of Bamako, Bamako, Mali, ³Fogarty International Center, National Institutes of Health, Bethesda, MD, United States (ACMCIP Abstract)

4 p.m.

557

ANALYSIS OF ANTIBODY SPECIFICITIES DETECTED BY AN MSP1-42 FRAGMENT SPECIFIC ELISA FOLLOWING VACCINATION WITH FMP1/AS02A IN THREE DIVERSE POPULATIONS

Evelina Angov¹, Afiya Brent-Kirk¹, Scott A. Bowden¹, Lorraine A. Soisson², Jose A. Stoute³, Christian F. Ockenhouse¹, Joe Cohen⁴, Carter L. Diggs², Donald G. Heppner¹, Jeffrey A. Lyon¹

¹Department Immunology, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²United States Agency for International Development, Washington, DC, United States, ³Department Cellular Injury, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴GlaxoSmithKline Biologicals, Rixensart, Belgium

4:15 p.m.

558

EBV-SPECIFIC IFN-GAMMA ELISPOT RESPONSES ARE SUPPRESSED WHILE THOSE TO MSP-1 ARE BOOSTED AFTER AN EPISODE OF ACUTE CLINICAL MALARIA

Ann M. Moormann¹, Pauline Sebby Ogolla², Kiprotich Chelimo², Peter Odada Sumba², Daniel J. Tisch³, Ryan W. Novince¹, Rosemary Rochford⁴, James W. Kazura¹

¹Center for Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States, ²Center for Vector Biology and Control Research, Kenya Medical Research Institute, Kisumu, Kenya, ³Department of Epidemiology and Biostatistics, Case Western Reserve University, Cleveland, OH, United States, ⁴Department of Microbiology and Immunology, SUNY UpState Medical University, Syracuse, NY, United States

4:30 p.m.

559

DIFFERENTIAL ANTIBODY RESPONSES TO PLASMODIUM FALCIPARUM MEROZOITE SURFACE AND INVASION LIGAND PROTEINS IN INDIVIDUALS LIVING IN MALARIA ENDEMIC AREAS IN BRAZIL AND CAMEROON

Louise Ford¹, Cheryl A. Lobo¹, Meagan B. Gallagher¹, Marilis Rodriguez¹, Mariano G. Zalis², Carlos E. Cavasini³, Ricardo L. Machado³, Ross L. Coppel⁴, Peter A. Enyong⁵, Daniel W. Moukatté⁶, Sara Lustigman¹

¹New York Blood Center, New York, NY, United States, ²Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, ³Faculty of Medicine of São José do Rio Preto, São Paulo, Brazil, ⁴Monash University, Clayton, Victoria, Australia, ⁵Tropical Medicine Research Station, Kumba, Cameroon, ⁶District Referral Hospital, Kumba, Cameroon

(ACMCIP Abstract)

4:45 p.m.

560

C3D BINDING TO THE CIRCUMSPOROZOITE PROTEIN CARBOXY-TERMINUS DEVIATES IMMUNITY AGAINST MALARIA

Elke S. Bergmann-Leitner¹, Elizabeth H. Duncan¹, Farhat Khan¹, Jackie L. Williams¹, Wolfgang W. Leitner², Evelina Angov¹, George C. Tsokos¹, Jeffrey A. Lyon¹

¹Walter Reed Army Institute, Silver Spring, MD, United States, ²National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

5 p.m.

561

ASSESSMENT OF PROTECTIVE IMMUNE MECHANISMS AGAINST MALARIA INDUCED BY POLYMERIC LINEAR PEPTIDE CHIMERAS

Luciana M. Flannery, Ivette Caro-Aguilar, Mary R. Galinski, Alberto Moreno

Emory Vaccine Center, Atlanta, GA, United States

5:15 p.m.

562

ALTERATION IN HOST CELL TROPISM LIMITS THE EFFICACY OF IMMUNIZATION WITH A SURFACE PROTEIN OF MALARIA MEROZOITES

Qifang Shi, Amy Cernetich, Thomas M. Daly, Gina Galvan, Akhil B. Vaidya, Lawrence W. Bergman, James M. Burns, Jr. Drexel University, College of Medicine, Philadelphia, PA, United States

Symposium 84

Biomphalaria and Schistosoma: Research Updates on their Interaction

Jefferson East

Tuesday, December 13

3:45 – 5:30 p.m.

Research in the *B.glabrata/S.mansoni* relationship was prompted largely by Dr. C.S. Richards, whose recent death left a void in this field. The speakers will present current snail-parasite research, based on Dr. Richards' pioneering efforts.

CHAIR

Fred A. Lewis

Biomedical Research Institute, Rockville, MD, United States

Philip T. LoVerde

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

3:45 p.m.

STUDIES TOWARDS A MOLECULAR UNDERSTANDING OF THE SCHISTOSOME/SNAIL ENCOUNTER

Matty Knight

Biomedical Research Institute, Rockville, MD, United States

4:15 p.m.

INNATE IMMUNITY IN BIOMPHALARIA TO LARVAL SCHISTOSOMES: PROGRESS AND CHALLENGES

Timothy P. Yoshino

University of Wisconsin, Madison, WI, United States

4:40 p.m.

COEVOLUTIONARY DYNAMICS BETWEEN SCHISTOSOMA MANSONI AND BIOMPHALARIA GLABRATA: A TALE OF RESISTANCE COSTS, INFECTION COSTS AND ENVIRONMENTAL MODULATION

Gregory Sandland

Purdue University, West Lafayette, IN, United States

5:05 p.m.

SCHISTOSOMES AND SNAILS-THE HISTORICAL PERSPECTIVE OF MOLECULAR PHYLOGENETICS

E. S. Loker

University of New Mexico, Albuquerque, NM, United States

Symposium 85**Evolutionarily Conserved Signal Transduction Pathways in Mosquitoes: Physiological Hyperlinks to Vectorial Capacity***Jefferson West*

Tuesday, December 13 3:45 – 5:30 p.m.

Vectorial capacity is a mathematical expression for the risk of pathogen or parasite transmission by an insect vector. While the mathematical formula is deceptively simple, the physiological processes that underlie different parts of the formula are complex and require activation of signaling pathways that integrate both internal and environmental information. In this symposium, we present new findings on signal transduction pathways that affect physiological processes in mosquitoes that are central to vectorial capacity: innate immunity, nutrient metabolism and reproduction, olfaction and diuresis. The relevant signaling pathways include extreme examples of conservation with orthologous pathways in mammalian cells and have significant novel potential for genetic manipulation to alter vectorial capacity.

CHAIR

Shirley Luckhart*University of California at Davis, Davis, CA, United States***Mark R. Brown***University of Georgia, Department of Entomology, Athens, GA, United States***3:45 p.m.****SIGNAL TRANSDUCTION AND INNATE IMMUNITY IN ANOPHELES**

Shirley Luckhart

*University of California at Davis, School of Medicine, Dept Medical Microbiology and Immunology, Davis, CA, United States***4:15 p.m.****SIGNAL TRANSDUCTION AND REPRODUCTION IN MOSQUITOES**

Mark R. Brown

*University of Georgia, Department of Entomology, Athens, GA, United States***4:40 p.m.****SIGNAL TRANSDUCTION AND OLFACTION**

Lawrence J. Zwiebel

*Vanderbilt University, Department of Biological Sciences, Nashville, TN, United States***5:05 p.m.****SIGNAL TRANSDUCTION AND DIURESIS**

Geoffrey M. Coast

*University of London, School of Biological and Chemical Sciences, London, United Kingdom***Scientific Session 86****Filariasis II***Georgetown West*

Tuesday, December 13 3:45 – 5:15 p.m.

CHAIR

Tarig B. Higazi*University of Alabama at Birmingham, Birmingham, AL, United States***David Addiss***Centers for Disease Control and Prevention, Buford, GA, United States***3:45 p.m.****563****BANCROFTIAN FILARIASIS: EFFECT OF ANNUAL TREATMENT WITH DIETHYLCARBAMAZINE AND ALBENDAZOLE ON CIRCULATING FILARIAL ANTIGEN LEVELS AND ANTI-FILARIAL ANTIBODIES****Hanan Helmy**¹, Gary J. Weil², Abou Sree T. Ellethy¹, Ehab S. Ahmed¹, Maged El Setouhy¹, Reda M. Ramzy¹¹Ain Shams University, Cairo, Egypt, ²Washington University, St. Louis, MO, United States**4 p.m.****564****COSTLY ADVERSE REACTIONS TO LYMPHATIC FILARIASIS TREATMENT IN LEOGANE, HAITI, 2004****Natasha Hochberg**¹, Marie Carmel Michel², Patrick J. Lammie¹, Els Mathieu¹, Abdel D. Direny², Madsen B. DeRochars², David G. Addiss¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Hopital Ste. Croix, Leogane, Haiti**4:15 p.m.****565****ANALYSIS OF THE POPULATION GENETICS OF CONCURRENT SELECTION WITH ALBENDAZOLE AND IVERMECTIN ON THE POSSIBLE DEVELOPMENT OF ALBENDAZOLE RESISTANCE****Anne E. Schwab**¹, Andreas J. Schwab², Thomas S. Churcher³, Maria-Gloria Basanez³, Roger K. Prichard¹¹McGill University, Ste-Anne-de-Bellevue, PQ, Canada, ²McGill University, Montreal, PQ, Canada, ³Imperial College, London, United Kingdom**4:30 p.m.****566****IDENTIFICATION OF ELEMENTS ESSENTIAL FOR TRANSCRIPTION IN *BRUGIA MALAYI* PROMOTERS****Tarig B. Higazi**, Ana Oliveira, Charles Katholi, Limin Shu, Joseph Barchue, Mark Lisenby, Thomas R. Unnasch*University of Alabama at Birmingham, Birmingham, AL, United States*

(ACMCIP Abstract)

4:45 p.m.

567

IDENTIFICATION OF *BRUGIA* ADULT WORM PROTEINS BY PEPTIDE MASS FINGERPRINTING**Tiffany S. Weinkopff**¹, James Atwood², George Punkosdy³, Brent Weatherly¹, Ronald Orlando², Patrick Lammie³¹Department of Cellular Biology, University of Georgia, Athens, GA, United States, ²Complex Carbohydrate Research Center, University of Georgia, Athens, GA, United States, ³Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

5 p.m.

568

STAGE SPECIFIC ANTIGENEMIA STATUS IN BRUGIAN FILARIASIS: PRE AND POST TREATMENT KINETICS**Nancy Malla**¹, P.K. Tripathi¹, R.K. Shenoy², R.C. Mahajan¹¹P.G.I.M.E.R, Chandigarh, India, ²Filariasis Chemotherapy Unit, T.D. Medical College, Alleppy, Kerala, India

(ACMCIP Abstract)

Symposium 87**Clinical Group II***International Ballroom East*

Tuesday, December 13

3:45 – 5:30 p.m.

This symposium will feature updates on malaria chemoprophylaxis and adverse effects of yellow fever vaccine. These scientific talks will be followed by the Clinical Group annual business meeting.

CHAIR

David Freedman*University of Alabama at Birmingham, Birmingham, AL, United States*

3:45 p.m.

CLINICAL UPDATE ON YELLOW FEVER VACCINE ADVERSE EFFECTS

Rachel Barwick Eidex

Centers for Disease Control/National Center for Infectious Diseases/DGMQ, Atlanta, GA, United States

4:10 p.m.

CLINICAL UPDATE ON MALARIA CHEMOPROPHYLAXIS

Monica Parise

Centers for Disease Control/National Center for Infectious Diseases/DPD, Atlanta, GA, United States

4:50 p.m.

CLINICAL GROUP ANNUAL BUSINESS MEETING

David Freedman

*University of Alabama at Birmingham, Birmingham, AL, United States***Scientific Session 88****American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) – Cellular Parasitology II****Supported with funding from the Burroughs Wellcome Fund***International Ballroom West*

Tuesday, December 13

3:45 – 5:30 p.m.

CHAIR

Kim C. Williamson*Loyola University Chicago, Chicago, IL, United States***David J. Sullivan, Jr.***Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*

3:45 p.m.

1106

DEVELOPING A ONE STEP PCR-BASED METHOD FOR GENE DISRUPTION AND *IN VIVO* EPITOPE TAGGING IN *CRITHIDIA FASCICULATA***Yu Sun***University of California at Los Angeles, Los Angeles, CA, United States*

4 p.m.

569

REGULATION OF ERYTHROCYTE INVASION BY HOST SIGNALING PATHWAYS AND MALARIA PARASITE LIGANDS**Sean C. Murphy**¹, Natalia L. Hiller¹, Paul Chung¹, S.N. Prasana Murthy¹, H. Alex Brown², Heidi E. Hamm², Jon W. Lomasney¹, Kasturi Halder¹¹Northwestern University, Chicago, IL, United States, ²Vanderbilt University, Nashville, TN, United States

4:15 p.m.

570

ERYTHROPOIETIN PROTECTS MICE FROM DEATH DURING CEREBRAL MALARIA**Stephane Picot**¹, Anthony Texier², Josette Ferrandiz², Christine Latour², François Peyron², Kaiser Karine¹¹Hospices Civils de Lyon, University Claude Bernard, Lyon, France, ²University Claude Bernard Lyon, Lyon, France

4:30 p.m.

571

NEUTRAL LIPID MICROSPHERES IN *P. FALCIPARUM* DIGESTIVE VACUOLES MEDIATE HEME CRYSTALLIZATION

John Pisciotta¹, Isabelle Coppens¹, Abhai Tripathi¹, Peter Scholl¹, Joel Shuman², Vladimir Shulaev², **David J. Sullivan¹**
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Virginia Bioinformatics Institute, Blacksburg, VA, United States

4:45 p.m.

572

CYCLOOXYGENASE-2 AND 15-LOX EXPRESSION DURING PLACENTAL MALARIA

Demba Sarr¹, Delphine Aldebert¹, Laurence Marrama¹, Adama Gaye², Makhtar Niang¹, Jean Yves Lehesran³, **Ronan Jambou¹**
¹Institut Pasteur de Dakar, Dakar, Senegal, ²Centre de Santé Roi Baudouin, Dakar, Senegal, ³Unité mère-enfant, IRD, Dakar, Senegal

5 p.m.

ACMCIP BUSINESS MEETING

John H. Adams
 Notre Dame University, Notre Dame, IN, United States

Plenary Session III

Commemorative Fund Lecture

International Ballroom Center
 Tuesday, December 13 6 – 6:45 p.m.
 The ASTMH Commemorative Fund Lecture is presented annually by an invited senior researcher resident in the tropics.

CHAIR
Thomas P. Monath
 Acambis Inc., Cambridge, MA

DISEASE IN CONTROL OF AFRICA: THE FOOL AT FORTY?

Oyewale Tomori
 Redeemer's University, Lagos State, Nigeria

Wednesday, December 14

Registration

Concourse Foyer
 Wednesday, December 14 7 a.m. – 5 p.m.

Poster Session B Viewing

Exhibit Hall
 Wednesday, December 14 7 a.m. – 5:30 p.m.

Program Committee Meeting

Caucus
 Wednesday, December 14 7 – 8 a.m.

ASTMH Past Presidents Breakfast

State
 Wednesday, December 14 7 – 8 a.m.

Cyberspace/Web Site Committee

Edison
 Wednesday, December 14 7 – 8 a.m.

Symposium 88A

Rolling Back Malaria in Eritrea – Success from a Comprehensive Program

Lincoln West
 Wednesday, December 14 7 – 8 a.m.

Eritrea met or exceeded each of the Abuja targets by the end of 2004 using a combination of proven interventions, including improved case management, insecticide-treated nets, targeted indoor residual spraying, and larval control. Several advisors to Eritrea's malaria control program will present brief summaries of the country's strategies and lessons to be learned from its experiences. Presenters will be available to answer questions following this brief breakfast symposium.

CHAIR
Eugene Brantly
 RTI International, Washington, DC, United States

8 a.m.
MEASURING THE EFFECTIVENESS OF MALARIA INTERVENTIONS IN ERITREA
 Patricia Graves
 EpiVec Consulting, Inc., Atlanta, GA, United States

8:20 a.m.
USING OR 'JUST OWNING' A NET: ROLLING OUT ITNS IN ERITREA
 Kate Macintyre
 Tulane University, New Orleans, LA, United States

Wednesday, December 14

8:40 a.m.**BUILDING ERITREA'S EARLY WARNING SYSTEM**

Madeleine Thompson

*Columbia University, Palisades, NY, United States***9 a.m.****A COMPARATIVE ANALYSIS OF FACTORS FOR SUCCESS IN MALARIA CONTROL**

Lawrence Barat

*Academy for Educational Development, Washington, DC, United States***Symposium 89****Insect Growth Regulators and Mosquitoes***Hemisphere*

Wednesday, December 14

8 – 9:45 a.m.

This symposium will provide a synopsis of the major classes and current status of insect growth regulators used to prevent the transmission of mosquito-borne diseases. Insect growth regulators represent an excellent opportunity to stop disease transmission while having minimal deleterious effect on the environment and human health. Juvenile hormone analogs, ecdysone agonists, plus a variety of newer compounds, will be surveyed as agents for mosquito control. The advantages and disadvantages of each class of compounds will be assessed.

CHAIR

Nancy E. Beckage*University of California-Riverside, Riverside, CA, United States***8 a.m.****HOW *DROSOPHILA* RESPONDS TO METHOPRENE, AND WHAT THIS MAY TELL US ABOUT THE MOSQUITO RESPONSE**

Thomas Wilson

*Ohio State University, Columbus, OH, United States***8:30 a.m.****MODE OF ACTION OF METHOPRENE IN *AEDES AEGYPTI***

S. R. Palli

*University of Kentucky, Lexington, KY, United States***8:55 a.m.****DISRUPTIVE EFFECTS OF THREE ECDYSONE AGONISTS ON DEVELOPMENT OF *AEDES AEGYPTI*, *CULEX QUINQUEFASCIATUS* AND *ANOPHELES GAMBIAE* LARVAE**

Nancy Beckage

*University of California-Riverside, Riverside, CA, United States***9:20 a.m.****NUTRITIONAL CONTROL OF EGG PRODUCTION IN ANAUTOGENOUS MOSQUITOES PROVIDES A LINK WITH PATHOGEN TRANSMISSION**

Alexander Raikhel

*University of California - Riverside, Riverside, CA, United States***Scientific Session 90****Bacteriology I – Diarrhea***Military*

Wednesday, December 14

8 – 9:45 a.m.

CHAIR

Regina LaRocque*Massachusetts General Hospital, Boston, MA, United States***Jason B. Harris***Massachusetts General Hospital, Boston, MA, United States***8 a.m.****573****DIARRHEAL EPIDEMICS IN DHAKA, BANGLADESH DURING THREE CONSECUTIVE FLOODS – 1988, 1998, AND 2004**

Brian S. Schwartz¹, Jason B. Harris¹, Ashraful I. Khan², Regina C. LaRocque¹, David A. Sack², Stephen P. Luby², Firdausi Qadri², Stephen B. Calderwood¹, Abu S. Faruque², Edward T. Ryan¹

¹*Massachusetts General Hospital, Boston, MA, United States,*²*ICDDR,B: Centre for Health and Population Research, Dhaka, Bangladesh***8:15 a.m.****574****HUMAN-PASSAGED HYPERINFECTIVITY OF *VIBRIO CHOLERA* CAN BE MODELED BY GROWTH IN THE INFANT MOUSE**

Ashfaquul Alam¹, **Regina C. LaRocque**², Jason B. Harris², Cecily Vanderspurt², Edward T. Ryan², Firdausi Qadri², Stephen B. Calderwood²

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

8:30 a.m.

575

PROTECTIVE IMMUNITY INDUCED BY TRANSCUTANEOUS IMMUNIZATION WITH *VIBRIO CHOLERA*E TOXIN CO-REGULATED PILUS A (TCPA) ANTIGEN

Julianne Rollenhagen¹, Anuj Kalsy¹, Manohar John¹, Jason Harris¹, Regina LaRocque¹, Firdausi Qadri², Stephen Calderwood¹, Francisca Cerda³, Ronald Taylor³, Edward T. Ryan¹

¹Division of Infectious Diseases, Massachusetts General Hospital, Boston, MA, United States, ²International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, ³Dartmouth Medical School, Hanover, NH, United States

8:45 a.m.

576

INTERNATIONAL INVESTIGATION OF AN OUTBREAK OF *SALMONELLA* ENTERITIDIS INFECTIONS AMONG US TRAVELERS — JAMAICA, 2005

Romulo E. Colindres¹, Deanna Ashley², Lisa Indar³, Nikki Maxwell¹, Ciara O'Reilly¹, Ewelina Lyszkowicz¹, Olga Henao¹, Susan Montgomery¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Jamaican Ministry of Health, Kingston, Jamaica, ³Caribbean Epidemiology Centre, Port of Spain, Trinidad and Tobago

9 a.m.

577

APPLICATION OF *IN VIVO* INDUCED ANTIGEN TECHNOLOGY (IVIAT) TO *SALMONELLA* ENTERICA SEROTYPE TYPHI: IDENTIFICATION OF PAGC AS A MARKER OF *S. TYPHI* INFECTION

Jason B. Harris¹, Andrea Baresch-Bernal¹, Md. Ashfaqul Alam², Regina C. LaRocque¹, Firdausi Qadri², Stephen B. Calderwood¹, Robert F. Breiman³, W. Abdullah Brooks², Martin Handfield⁴, Sean Rollins¹, Edward T. Ryan¹

¹Massachusetts General Hospital, Boston, MA, United States, ²International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴College of Dentistry, University of Florida, Gainesville, FL, United States

9:15 a.m.

578

INVESTIGATING THE MOLECULAR MECHANISMS OF NALIDIXIC ACID RESISTANCE AND REDUCED SUSCEPTIBILITY TO FLUOROQUINOLONES IN *SALMONELLA* TYPHI

Chau T. Tran¹, Christiane Dolecek¹, R. Leon R. Ochiai², James Ian Campbell¹, Yin Yang³, Hoang Minh Nguyen¹, Zulfiqar A. Bhutta⁴, Sujit K. Bhattacharya⁵, Thiem Dinh Vu⁶, Magdarina Agtini⁷, John Wain⁸, Christopher Martin Parry⁹, Diep Song To¹, Chau Vinh Nguyen¹, Ho Anh Vo¹⁰, Bay Be Phan¹⁰, Phuong Thi Le¹⁰, Lanh Ngoc Mai¹⁰, La Phi Tran¹¹, Lorenz von Seidlein⁴, Camilo J. Acosta⁴, Hien Tinh Tran¹, John D. Clemens⁴, Simmaly Phongmany¹², Jeremy Farrar¹

¹The Hospital for Tropical Diseases, Hochiminh, Viet Nam,

²International Vaccine Institute, Seoul, Republic of Korea, ³Guangxi Center for Disease Prevention and Control, Guangxi, China, ⁴Department of Pediatrics, Aga Khan University, Karachi, Pakistan, ⁵National Institute of Cholera and Enteric Diseases, Beliaghata, Kolhata, India, ⁶National Institutes of Health, Hanoi, Viet Nam, ⁷National Institute of Health, Research and Development, Jakarta, Indonesia, ⁸Sanger Institute, Cambridge, United Kingdom, ⁹Liverpool University, Liverpool, United Kingdom, ¹⁰Dong Thap Provincial Hospital, Cao Lanh, Dong Thap, Viet Nam, ¹¹An Giang Provincial Hospital, Long Xuyen, Viet Nam, ¹²Wellcome Trust-Mahosot Hospital, Oxford Tropical Medicine Research Collaboration, Vientiane, Lao People's Democratic Republic

9:30 a.m.

579

CHARACTERIZATION OF *CAMPYLOBACTER COLI* FROM CHILDREN AGED FIVE YEARS OR LESS IN EGYPT (1995-2004)

John D. Klena, Dina Fahmy, Mark S. Riddle, David Rockabrand, Marshall R. Monteville, John Sanders
NAMRU-3, FPO, AE, United States

Scientific Session 91**Viruses II**

Monroe East

Wednesday, December 14

8 - 9:45 a.m.

CHAIR

James Meegan

Biological Defense Systems, Frederick, MD, United States

Barry Miller

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

8 a.m.

580

DEVELOPMENT OF A NEUTRALIZATION ASSAY FOR RIFT VALLEY FEVER VIRUS UTILIZING PSEUDOVIRIONS

Andrea F. Bertolotti-Ciarlet¹, Shaun M. Stewart¹, Claire Marie Filone¹, Mark Heise², Robert W. Doms¹

¹University of Pennsylvania, Philadelphia, PA, United States, ²University of North Carolina, Chapel Hill, NC, United States

8:15 a.m.

581

TRANSMISSION OF RIFT VALLEY FEVER IN KENYA: RETROSPECTIVE SURVEY

Angelle Desiree LaBeaud¹, Eric Muchiri², Clarence J. Peters³, Charles H. King¹

¹Case Western Reserve University: Center for Global Health and Diseases, Cleveland, OH, United States, ²Ministry of Health; Division of Vector Borne Diseases, Nairobi, Kenya, ³University of Texas Medical Branch, Galveston, TX, United States

8:30 a.m.

582

VENEZUELAN EQUINE ENCEPHALITIS VIRUS EVOLUTION *IN VIVO* IS CONSTRAINED BY HOST ALTERATION

Lark L. Coffey¹, Aaron C. Brault², Nikos Vasilakis¹, Scott C. Weaver¹

¹University of Texas Medical Branch, Galveston, TX, United States, ²University of California, Davis, CA, United States

8:45 a.m.

583

TOWARD A RECOMBINANT VACCINE AGAINST FILOVIRUS INFECTION — EXPRESSION AND IMMUNOGENICITY OF SOLUBLE VIRAL ANTIGENS

Axel T. Lehrer¹, Beth-Ann Collier¹, Carolyn L. Weeks-Levy¹, Alan McClelland¹, David E. Clements¹, Charmaine S. Aniya¹, Michael M. Lieberman¹, Teri-Ann S. Wong¹, Benjamin M. Kriederman¹, Steven A. Ogata¹, David F. Waller¹, Beverly Basilio¹, Eric M. Rohlinger¹, William S. Pratt², Russ Bakken², Mary Kate Hart²

¹Hawaii Biotech, Inc., Aiea, HI, United States, ²US Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States

9 a.m.

584

EFFECTS OF AN OPAL TERMINATION CODON PRECEDING THE NSP4 GENE SEQUENCE IN THE O'NYONG NYONG VIRUS GENOME ON ANOPHELES GAMBIAE INFECTIVITY

Kevin M. Myles, Cindy L. Kelly, Jeremy P. Ledermann, Ann M. Powers

Centers for Disease Control and Prevention, Division of Vector Borne Infectious Diseases, Fort Collins, CO, United States

9:15 a.m.

585

ROSS RIVER VIRUS EVASION OF TYPE I INTERFERONS

Reed S. Shabman¹, Thomas E. Morrison¹, Laura White¹, Mehul S. Suthar¹, Kenya Madric¹, Suresh Mahalingam², Brett Lidbury², Christopher Moore¹, Mark T. Heise¹

¹University of North Carolina-Chapel Hill, Chapel Hill, NC, United States, ²University of Canberra, Canberra, Australia

9:30 a.m.

586

HUMAN INFLUENZA SURVEILLANCE DURING A TIME OF H5N1 TRANSMISSION IN POULTRY IN INDONESIA

Agus Suwandowo¹, Andrew Jeremijenko², Herman Kosasih², Joko Yuwono¹, Chairin Ma'roef², Steven Borge³, Nancy J. Cox⁴, **Patrick J. Blair**²

¹National Institute of Health Research and Development, Jakarta, Indonesia, ²Naval Medical Research Unit-2, Jakarta, Indonesia, ³World Health Organization, Jakarta, Indonesia, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

Scientific Session 92

Mosquitoes Vector Biology — Epidemiology I

Monroe West

Wednesday, December 14

8 – 9:45 a.m.

CHAIR

Frederic Tripet

University of California Davis, Davis, CA, United States

Doug Norris

John Hopkins School of Public Health, Baltimore, MD, United States

8 a.m.

587

GENETIC EVIDENCE THAT *CULEX PIPIENS MOLESTUS* IS LOCALLY FOUNDED FROM *CULEX PIPIENS* COMPLEX IN NORTH AMERICA

Rebekah J. Kent¹, Laura C. Harrington², Douglas E. Norris¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Cornell University, Ithaca, NY, United States

(ACMCIP Abstract)

8:15 a.m.

588

POPULATION STRUCTURE OF *CULEX PIPIENS* COMPLEX MOSQUITOES IN THE NORTHEASTERN UNITED STATES

Frances E. Edillo, Anthony E. Kiszewski, Andrew Spielman

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

8:30 a.m.

589

ANALYSIS OF SINGLE NUCLEOTIDE POLYMORPHISMS IN GENES LOCATED THROUGHOUT THE *ANOPHELES GAMBIAE* GENOME

Norma Gorrochotegui¹, Adama Sacko¹, Frederic Tripet², Michel Slotman², Greg C. Lanzaro², William C. Black¹

¹Colorado State University, Fort Collins, CO, United States, ²Department of Entomology, University of California Davis, Davis, CA, United States

8:45 a.m.

590

REPRODUCTIVE ISOLATION AMONG THE CRYPTIC TAXA OF *ANOPHELES GAMBIAE*: EVIDENCE FROM THE PATTERNS OF EMERGENCE AND SPREAD OF KNOCK-DOWN RESISTANCE TO PYRETHROIDS IN WEST AFRICA

Frederic Tripet¹, Jennifer Wright¹, Lisa Reimer¹, Michel Slotman¹, Gregory Lanzaro¹, Sekou Traore², Guimogo Dolo², Etienne Fondjo³

¹University of California Davis, Davis, CA, United States, ²Malaria Research Training Center, Faculty of Medicine and Pharmacy, University of Mali, Bamako, Mali, ³Programme National de Lutte contre le Palludisme, Yaounde, Cameroon

9 a.m.

591

CONTRASTING PATTERNS OF DIFFERENTIATION BETWEEN THE M AND S MOLECULAR FORMS OF ANOPHELES GAMBIAE IN MALI AND CAMEROON

Michel A. Slotman¹, **Frederic Tripet**¹, Lisa Reimer¹, Tara Thiemann¹, Claudio Meneses¹, Abdrahamane Fofana², Rory McAbee³, Anton Cornel³, Etienne Fondjo⁴, Giumogo Dolo², Sekou Traore², Gregory C. Lanzaro¹

¹University of California at Davis, Davis, CA, United States, ²Malaria Training and Research Center, Bamako, Mali, ³University of California at Davis, Parlier, CA, United States, ⁴Ministere de la Sante Publique, Yaounde, Cameroon

9:15 a.m.

592

MICROSATELLITE ANALYSIS REVEALS GENETIC DIFFERENTIATION BETWEEN ENDOPHILIC AND EXOPHILIC ANOPHELES ARABIENSIS FROM BURKINA FASO

Federica Santolamazza¹, Erika Schielke², Melissa Garren², Marco Pombi¹, N'Fale Sagnon³, **Alessandra della Torre**¹, Adalgisa Caccone², Jeffrey R Powell², **Carlo Costantini**⁴

¹University of Rome, Rome, Italy, ²University of Yale, New Haven, CT, United States, ³Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso, ⁴Institut de Recherche pour le Développement (IRD), Ouagadougou, Burkina Faso

9:30 a.m.

593

POPULATION STRUCTURE OF ANOPHELES ARABIENSIS AND ANOPHELES GAMBIAE IN NIGERIA USING SEQUENCES OF THE MTDNA COI GENE

Stacy D. Matthews¹, Lisa J. Meehan², David Y. Onyabe³, **Jan E. Conn**²

¹Dept. Biomedical Sciences, SPH, SUNY-Albany, Albany, NY, United States, ²Wadsworth Center, NYSDOH, Slingerlands, NY, United States, ³Aeras Global Tuberculosis Foundation, Rockville, MD, United States

Scientific Session 93**Malaria — Molecular Markers of Drug Resistance**

Lincoln East

Wednesday, December 14

8 – 9:45 a.m.

CHAIR

Chansuda Wongsrichanalai

NIPH/NAMRU-2, Phnom Penh, Cambodia

Michael Ferdig

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

8 a.m.

594

IDENTIFICATION OF NOVEL MICROSATELLITE HAPLOTYPES FOR THE TRIPLE MUTANT DHFR ALLELE AND IDENTIFICATION OF HIGHLY RESISTANT PLASMODIUM FALCIPARUM IN AN AREA OF INTENSE TRANSMISSION IN AFRICA

Andrea M. McCollum¹, Amanda C. Poe¹, Mary Hamel¹, Curtis Huber¹, Zhiyong Zhou¹, Ya Ping Shi¹, Peter Ouma², John Vulule², Peter Bloland¹, Laurence Slutsker², John Barnwell¹, Venkatachalam Udhayakumar¹, Ananias A. Escalante³

¹Centers for Disease Control and Prevention, Division of Parasitic Diseases, Malaria Branch, Atlanta, GA, United States, ²Kenya Medical Research Institute, Centre for Vector Biology and Control Research, Kisumu, Kenya, ³Arizona State University, School of Life Sciences, Tempe, AZ, United States

8:15 a.m.

595

CHARACTERIZATION OF SEGMENTAL AMPLIFICATIONS ON CHR 5 ASSOCIATED WITH MULTIDRUG RESISTANCE IN PLASMODIUM FALCIPARUM

Shalini Nair¹, Denae Nash¹, Dan Sudimack¹, François Nosten², Tim Anderson¹

¹Southwest Foundation for Biomedical Research, San Antonio, TX, United States, ²Shoklo Malaria Research Unit, Mae Sot, Thailand

8:30 a.m.

596

THE ASSOCIATION BETWEEN PFMDR1 COPY NUMBER AND CLINICAL OUTCOME OF ARTESUNATE-MEFLUQUINE THERAPY FOR PLASMODIUM FALCIPARUM MALARIA IN PAILIN, CAMBODIA

Alisa P. Alker¹, Naman Shah¹, Rithy Sem², Poravuth Yi², Sina Nemh³, Pharath Lim⁴, Denis Mey Bouth⁵, Reiko Tsuyuoka⁵, Jason D. Maguire⁶, Frederick Arie⁴, Thierry Fandeur⁴, Chansuda Wongsrichanalai⁷

¹Department of Epidemiology, University of North Carolina, Chapel Hill, NC, United States, ²National Center for Parasitology, Entomology and Malaria Control (CNM), Phnom Penh, Cambodia, ³Pasteur Institute and National Center for Parasitology, Entomology and Malaria Control (CNM), Phnom Penh, Cambodia, ⁴Pasteur Institute, Phnom Penh, Cambodia, ⁵World Health Organization (WHO/Cambodia), Phnom Penh, Cambodia, ⁶U.S. Naval Medical Research Unit No. 2 (NAMRU-2), Jakarta, Indonesia, ⁷NIPH/NAMRU-2 Laboratory, Phnom Penh, Cambodia and U.S. Naval Medical Research Unit No. 2 (NAMRU-2), Jakarta, Indonesia

8:45 a.m.

597

MICROSATELLITE POLYMORPHISM WITHIN PFCRT PROVIDES EVIDENCE OF CONTINUING EVOLUTION OF CHLOROQUINE RESISTANT HAPLOTYPES

Jeana T. DaRe¹, Rajeev K. Mehlotra¹, Moses Bockarie¹, John Reeder², Mark Stoneking³, Peter A. Zimmerman¹

¹Case Western Reserve University, Cleveland, OH, United States,

²Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, ³Max Planck Institute for Evolutionary Anthropology, Leipzig, Germany

9 a.m.

598

GENETIC ANALYSIS OF THE *P. FALCIPARUM* SODIUM-PROTON EXCHANGER (PFNHE) AND ITS CONTRIBUTION TO QUININE RESISTANCE

Louis Nkrumah¹, Pedro Moura¹, Min Yu¹, Jigar Patel², Michael T. Ferdig², Thomas E. Wellems³, **David A. Fidock¹**

¹Albert Einstein College of Medicine, Bronx, NY, United States,

²University of Notre Dame, Notre Dame, IN, United States,

³National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

9:15 a.m.

599

PFNHE POLYMORPHISMS ARE ASSOCIATED WITH QUININE USAGE IN MALI

Aminatou Kone¹, Jianbing Mu², Issaka Sagara¹, Christopher V. Plowe³, Ogobara K. Doumbo¹, Thomas E. Wellems², Abdoulaye A. Djimde¹

¹University of Bamako, Mali, Bamako, Mali, ²National Institutes of Health, Rockville, MD, United States, ³University of Maryland, Baltimore, Baltimore, MD, United States

(ACMCIP Abstract)

9:30 a.m.

600

IDENTIFICATION OF A NOVEL MUTATION IN THE L4 PLASTID RIBOSOMAL PROTEIN IN *P. FALCIPARUM* AZITHROMYCIN-RESISTANT LINES

Amar Bir S. Sidhu¹, Michael W. Dunne², Lewis E. Drew², David A. Fidock¹

¹Albert Einstein College of Medicine, Bronx, NY, United States,

²Pfizer Global Research and Development, New London, CT, United States

(ACMCIP Abstract)

Symposium 94

African Trypanosomiasis and Vector Based Disease Control

Lincoln West

Wednesday, December 14

8 – 9:45 a.m.

African trypanosomiasis has remained an orphan disease despite its devastating public health and agricultural/nutritional relevance. The speakers will review the disease epidemiology and update progress in the effort to better understand the role of the tsetse fly vector in parasite transmission with the goal of enhancing insect-based control strategies.

CHAIR

Serap Aksoy

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

Michael J. Lehane

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8 a.m.

EPIDEMIOLOGY OF HUMAN AFRICAN TRYPANOSOMIASIS: A CASE STUDY FROM UGANDA

Loyce Okedi

LIRI, Tororo, Uganda

8:25 a.m.

THE CURRENT PERSPECTIVE ON VECTORS OF AFRICAN TRYPANOSOMIASIS AND DISEASE CONTROL

Joseph N'dungu

KARI, Kikuyu, Kenya

8:45 a.m.

THE CURRENT STATUS OF AFRICAN TRYPANOSOMIASIS IN TANZANIA

Atway R. Msangi

TTRI, Tanga, Tanzania

9:05 a.m.

ROLE OF TSETSE POPULATION GENETICS IN DISEASE EPIDEMIOLOGY

Phillipe Solano

IRD, Burkina Faso

9:25 a.m.

NEW VECTOR-BASED APPROACHES TO TRYPANOSOMIASIS CONTROL

Serap Aksoy

Yale University, New Haven, CT, United States

Symposium 95**Bridging Pathogenesis and Pathology in Malaria****Supported with funding from the Burroughs Wellcome Fund***Jefferson East*

Wednesday, December 14 8 – 9:45 a.m.

Linking functional genomics to disease pathologies remains a frontier in malaria. This has created great need for broad, integrated perspectives to understand the complexities pathogenic mechanisms, as well as acute and chronic disease pathologies. This symposium will bring together the latest developments in parasite molecular genetics, host remodeling as well as correlates of fatal disease and malarial immunity to integrate genomics and endemic disease.

CHAIR

Kasturi Haldar*Northwestern University, Chicago, IL, United States***8 a.m.****COMPLEX CORRELATES OF FATAL CEREBRAL MALARIA**

Terrie Taylor

*Michigan State University, East Lansing, MI, United States***8:35 a.m.****EMERGENT GENOME-WIDE GENETIC SCREENS FOR VIRULENCE DETERMINANTS IN *P. FALCIPARUM***

John Adams

*University of Notre Dame, Notre Dame, IN, United States***9:10 a.m.****GLOBAL VIRULENCE STRATEGIES IN ERYTHROCYTE REMODELING BY *P. FALCIPARUM***

Kasturi Haldar

*Northwestern University, Chicago, IL, United States***Symposium 96****New Horizons in Schistosomiasis: Research***Jefferson West*

Wednesday, December 14 8 – 9:45 a.m.

Schistosomiasis continues to plague the developing world. This symposium will feature the latest and most exciting research from four investigators that have made important scientific contributions over the past few years. Some of the topics that will be discussed include: dendritic cells in vaccine induced immunity and type-2 response development, role of regulatory T cells in pathogenesis, and parasite genomics as a platform for novel drug discovery. This symposium is part one of a two part series, which will highlight “where we are” and “where we’re going” in the field of schistosomiasis.

CHAIR

Thomas A. Wynn*National Institutes of Health, Bethesda, MD, United States***W. Evan Secor***Centers for Disease Control and Prevention, Atlanta, GA, United States***8 a.m.****INTRODUCTION**

Thomas A. Wynn

*National Institutes of Health, Bethesda, MD***8:05 a.m.****ACTIVATION AND FUNCTION OF DENDRITIC CELLS IN RESPONSE TO SCHISTOSOME EGG ANTIGENS: UNRAVELLING THE NETWORK**

Andrew S. MacDonald

*University of Edinburgh, Edinburgh, United Kingdom***8:30 a.m.****THE EGG-INDUCED INFLAMMATORY RESPONSE IN MURINE SCHISTOSOMIASIS IS SUPPRESSED BY NATURALLY- OCCURING REGULATORY T CELLS**

Matthias Hesse

*Cornell University, Ithaca, NY, United States***8:55 a.m.****MODULATION OF IMMUNE RESPONSES BY EARLY SCHISTOSOME INFECTIONS**

Adrian P. Mountford

*University of York, York, United Kingdom***9:20 a.m.****DISCOVERY DRIVEN APPROACHES TO STUDY SCHISTOSOME BIOLOGY**

Karl F. Hoffmann

University of Cambridge, Cambridge, United Kingdom

Symposium 97

Infection Control in the Tropics: Managing Nosocomial Infection with Very Limited Resources

Georgetown East

Wednesday, December 14 8 – 9:45 a.m.

Providing health care in settings with limited resources and infrastructure poses unique challenges. Infection control joins sanitation and immunization as cost-effective interventions, but knowing where the first dollar should be spent is difficult. Outbreaks of hemorrhagic fever in Africa highlight how vulnerable the health systems are to aggressive pathogens. This symposium will look at what is known, and where to start when so much is unknown.

CHAIR

Mark Shelly

University of Rochester School of Medicine and Dentistry, Rochester, NY, United States

8 a.m.

OVERVIEW: WHAT DO WE KNOW ABOUT WHAT WORKS?

Mark Shelly

University of Rochester School of Medicine and Dentistry, Rochester, United States

8:25 a.m.

INFECTION CONTROL IN OUBREAKS OF HEMORRHAGIC FEVER (EBOLA, MARBURG) IN AFRICA

Mark Shelly

University of Rochester School of Medicine and Dentistry, Rochester, NY, United States

8:50 a.m.

PROGRESS IN SOUTH AMERICA: THE EXPERIENCE WITH INFECTION CONTROL IN BRAZIL

Silvia F. Costa

University of Sao Paulo, Sao Paulo, Brazil

9:15 a.m.

BARRIERS AND OPPORTUNITIES IN PROVIDING QUALITY HEALTH CARE IN AFRICA

Abdel Karim Koumare

National Medical Faculty in Mali, Bamako, Mali

Symposium 98

Host Immunomodulation by Helminth Parasites

Georgetown West

Wednesday, December 14 8 – 9:45 a.m.

Recent advances in the areas of functional genomics and proteomics has made it possible to identify various molecular pathways that the helminth parasites use to evade host immune responses. Thus, the theme of this symposia would be to provide comprehensive new information on the molecular mechanisms of host immunomodulation by helminth parasites, more specifically schistosomes, filarial parasites and hookworm.

CHAIR

Ramaswamy Kalyanasundaram

University of Illinois, Rockford, IL, United States

CO-CHAIR

Stephen J. Davies

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

8 a.m.

MODULATION OF SCHISTOSOME DEVELOPMENT BY CD4+ T CELLS

Stephen J. Davies

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

8:30 a.m.

HELMINTH INDUCED REGULATORY T CELLS: THEIR ROLE IN THE ESTABLISHMENT AND PERSISTENCE OF INFECTION, AND CONTROL OF ALLERGY

Matthew Taylor

Institute of Immunology and Infection Research, Edinburgh, United Kingdom

8:55 a.m.

SCHISTOSOME DERIVED HIGH MOBILITY GROUP BOX (HMGB)-1 PROTEIN AND ITS ROLE IN HOST IMMUNOMODULATION

Ramaswamy Kalyanasundaram

University of Illinois, Rockford, IL, United States

9:20 a.m.

SELECTIVE INTERACTIONS OF HOOKWORM EXCRETORY/SECRETORY PRODUCTS WITH NATURAL KILLER CELLS

Stephanie Constant

George Washington University, Washington, DC, United States

Symposium 99**Emerging Diseases in Asia, Latin America and Africa****Organized by the International Federation of Tropical Medicine***International Ballroom East*

Wednesday, December 14

8 – 9:45 a.m.

CHAIR

Eduardo Gotuzzo*IMT 'Alexander Von Humboldt', Lima, Peru***Thomas P. Monath***Acambis, Inc., Cambridge, MA***Claudio Ribeiro***Instituto Oswaldo Cruz, FIOCRUZ, Rio de Janeiro, Brazil***8 a.m.****IMPACT OF EMERGING DISEASES OF ASIA**

Sornchai Looareesuwan

*Mahidol University, Bangkok, Thailand***8:35 a.m.****MALARIA IN EUROPEAN TRAVELERS**

Pierre Ambroise-Thomas

*L'Eynardiere, Meylan, France***9:10 a.m.****EMERGING DISEASES OF LATIN AMERICA**

Eduardo Gotuzzo

*IMT 'Alexander Von Humboldt', Lima, Peru***Scientific Session 100****Malaria – Diagnosis***International Ballroom West*

Wednesday, December 14

8 – 9:45 a.m.

CHAIR

David J. Sullivan, Jr.*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States***Jean-Paul Chretien***Walter Reed Army Institute of Research, Silver Spring, MD, United States***8 a.m.****601****OPERATIONAL RESPONSE TO MALARIA EPIDEMICS: A COST EFFECTIVE ANALYSIS OF THE USE OF RAPID DIAGNOSTIC TESTS**Francesco Checchi¹, Estelle Rolland¹, Loretxu Pinoges¹, Suna Balkan², **Jean-Paul Guthmann**¹, Philippe Jean Guérin¹
*¹Epicentre, Paris, France, ²Médecins sans Frontières, Paris, France***8:15 a.m.****602****MAPPING OF THE EPITOPES RECOGNIZED BY PFHRPII-SPECIFIC MONOCLONAL ANTIBODIES ONTO THEIR PARASITE PROTEIN TARGET: IMPLICATIONS FOR PFHRPII-BASED MALARIA RAPID DIAGNOSTIC TESTS (RDTS)****Nelson Lee**¹, Joanne Baker², Katherine Andrews¹, Michelle Gatton¹, David Bell³, Qin Cheng⁴, James S. McCarthy¹*¹QIMR, University of Queensland, Brisbane, Australia, ²Department of Drug Resistance and Diagnostics, Australian Army Malaria Institute and University of Queensland, Brisbane, Australia, ³West Pacific Regional Office, World Health Organisation, Manila, Philippines, ⁴Department of Drug Resistance and Diagnostics, Australian Army Malaria Institute, Brisbane, Australia***8:30 a.m.****603****EVALUATION OF MALARIA SCREENING IN LIBERIAN REFUGEES BY BLOOD SMEAR AND RAPID ANTIGEN CAPTURE ASSAY (BINAX™). PRELIMINARY RESULTS****William M. Stauffer**¹, Ashley Newberry², Charles Cartwright², Jon Rosenblatt³, Kevan Hanson², Lynne Sloan³, Dean Tsukayama⁴, Charlotte Taylor⁵, Billie Juni⁵*¹University of Minnesota, Minneapolis, MN, United States, ²Hennepin County Medical Center, Minneapolis, MN, United States, ³Mayo Clinic, Rochester, MN, United States, ⁴Hennepin Assessment Program, Minneapolis, MN, United States, ⁵Minnesota Department of Health, Minneapolis, MN, United States***8:45 a.m.****604****QUALITY ASSURANCE FOR MALARIA CLINICAL TRIAL MICROSCOPY BASED ON THEORETICAL AND EMPIRICAL EVIDENCE****Jean-Paul Chretien**¹, Wendy Prudhomme², Ken Awuondo³, Doug Tang⁴, Shon Remich³, Bernard Ogutu³, Ampon Nanakorn³, Colin Ohrt⁴*¹DoD-Global Emerging Infections Surveillance and Response System, Silver Spring, MD, United States, ²National Institutes of Health, Bethesda, MD, United States, ³US Army Medical Research Unit-Kenya, Kisumu, Kenya, ⁴Walter Reed Army Institute of Research, Silver Spring, MD, United States*

9 a.m.

605

DEVELOPMENT OF A RAPID, ACCURATE, LOW-COST MALARIA SCREENING ASSAY FOR EPIDEMIOLOGIC AND CLINICAL APPLICATIONS

Andrew B. Feldman¹, Nirbhay Kumar², Jeff Lin¹, Myaing Nyunt³, John Pisciotto², Peter Scholl², David Sullivan², Phillip Thuma⁴, Plamen Demirev¹

¹Johns Hopkins University, Applied Physics Laboratory, Laurel, MD, United States, ²Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ³Johns Hopkins School of Medicine, Baltimore, MD, United States, ⁴Macha Malaria Institute, Choma, Zambia

9:15 a.m.

606

LASER DESORPTION MASS SPECTROMETRIC DETECTION OF MALARIA HEMOZIN IN HUMAN CLINICAL SAMPLES

John M. Pisciotto¹, Andy B. Feldman², Plamen A. Demirev², Jeff S. Lin², Peter F. Scholl¹, Evelyne Kokoskin³, David Sullivan¹

¹Johns Hopkins, Baltimore, MD, United States, ²Johns Hopkins APL, Laurel, MD, United States, ³McGill University, Montreal, PQ, Canada

9:30 a.m.

607

ELEVATED CHOLINE PHOSPHATE — A BIOMARKER FOR IN VIVO MALARIA PARASITE DETECTION BY MASS SPECTROMETRY

Plamen A. Demirev¹, John M. Pisciotto², Peter F. Scholl², David Sullivan², Nirbhay Kumar², Jeff S. Lin¹, Andrew B. Feldman¹

¹Johns Hopkins University, Laurel, MD, United States, ²Johns Hopkins University, Baltimore, MD, United States

(ACMCIP Abstract)

Exhibit Hall Open

Exhibit Hall

Wednesday, December 14 9:30 – 10:30 a.m.

Coffee Break

Exhibit Hall

Wednesday, December 14 9:45 – 10:15 a.m.

Scientific Session 101

Filariasis III

Hemisphere

Wednesday, December 14 10:15 a.m. – Noon

CHAIR

Alan L. Scott

Johns Hopkins University, Baltimore, MD, United States

Yashodhara Dash

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

10:15 a.m.

608

BRUGIA MALAYI L3 LARVAE SECRETE A CHEMOTACTIC FACTOR FOR HUMAN EOSINOPHILS THAT MIMICS A CCR3 LIGAND

Yae-Jean Kim, Melissa Law, Thomas B. Nutman

National Institutes of Health, Bethesda, MD, United States

10:30 a.m.

609

MEMORY RESPONSES TO B.PAHANGI L3 LARVAE IN INTRAPERITONEAL INFECTION MODEL IN MICE

Yashodhara Dash, Thiruchandurai V. Rajan

UCHC, Farmington, CT, United States

(ACMCIP Abstract)

10:45 a.m.

610

PERITONEAL EXUDATE CELLS SUPPORT THE L3-L4 MOLT OF BRUGIAN L3 LARVAE IN CO-CULTURE

Thiruchandurai V. Rajan, Carol McGuiness

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

11 a.m.

611

HELMINTH INFECTION INDUCES PERSISTENT CHANGES IN LUNG DC POPULATIONS

Mark C. Siracusa, Josh J. Reece, Alan L. Scott

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

(ACMCIP Abstract)

11:15 a.m.

612

CD4+ T-CELLS ARE THE PREDOMINANT IL-10 PRODUCING CELLS IN THE CIRCULATION OF FILARIAL-INFECTED PATIENTS

Edward Mitre, Thomas B. Nutman
National Institutes of Health, Bethesda, MD, United States
(ACMCIP Abstract)

11:30 a.m.

613

HELMINTH INDUCED REGULATORY T CELLS: THEIR ROLE IN THE ESTABLISHMENT AND PERSISTENCE OF INFECTION, AND CONTROL OF ALLERGY

Matthew D. Taylor¹, Mark S. Wilson², Constance A. Finney¹, Anjanette Harris¹, Judith E. Allen¹, Rick M. Maizels¹
¹University of Edinburgh, Edinburgh, United Kingdom, ²National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States
(ACMCIP Abstract)

11:45 a.m.

614

BRUGIA MALAYI MICROFILARIAE INHIBIT MYCOBACTERIUM TUBERCULOSIS-INDUCED IFN γ PRODUCTION BY CD4+ T CELLS IN A HUMAN COINFECTION MODEL

Kawsar R. Talaat, Thomas B. Nutman
National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States
(ACMCIP Abstract)

Scientific Session 102

Bacteriology II – Diarrhea – Other

Military

Wednesday, December 14 10:15 – 11:45 a.m.

CHAIR

Theresa J. Ochoa

Baylor College of Medicine, Houston, TX, United States

Edward T. Ryan

Massachusetts General Hospital, Boston, MA, United States

10:15 a.m.

615

PREVENTING DIARRHEA FOLLOWING WATER EMERGENCIES: AN EVALUATION OF HOME-BASED CHLORINATION, WEST TIMOR, INDONESIA, 2004

Gavin J. Macgregor-Skinner¹, Endang Widyastuti², Khrisna Ardiani², Arte Pisceska², Robert Michael Hoekstra¹, Rob Quick¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²CARE International Indonesia, Jakarta, Indonesia

10:30 a.m.

1098

LOW RISK OF HEMOLYTIC UREMIC SYNDROME (HUS) FOLLOWING EARLY EFFECTIVE ANTIMICROBIAL THERAPY OF SHIGELLA DYSENTERIAE TYPE 1 INFECTION IN BANGLADESH

Michael L. Bennish¹, Wasif A. Khan², Monira Begum², Emily A. Bridges³, Sabeena Ahmed², Debasish Saha², Mohammad A. Salam², David Acheson⁴, Edward T. Ryan³
¹Africa Centre for Health and Population Studies, Mtubatuba, South Africa, ²ICDDR,B: International Centre for Health and Population Research, Bangladesh, Dhaka, Bangladesh, ³Massachusetts General Hospital, Tropical and Geographic Medicine Center, Division of Infectious Diseases, Boston, MA, United States, ⁴Tufts-New England Medical Centre, Division of Geographic Medicine and Infectious Diseases, Boston, MA, United States

10:45 a.m.

617

AFTER THE FLOOD: AN EVALUATION OF IN-HOME DRINKING WATER TREATMENT WITH COMBINED FLOCCULENT-DISINFECTANT FOLLOWING TROPICAL STORM JEANNE – GONAIVES, HAITI, 2004

Romulo E. Colindres¹, Seema Jain¹, Anna Bowen¹, Polyanna Domond², Eric Mintz¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Population Services International, Port-au-Prince, Haiti

11 a.m.

618

EFFECT OF BOVINE LACTOFERRIN ON BACTERIAL PATHOGENS ASSOCIATED WITH PERSISTENT DIARRHEA

Theresa J. Ochoa¹, Chase E. Guion², Jane Z. Chen², Robert J. McMahon³, Thomas G. Cleary²
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²University of Texas Health Science Center at Houston, Houston, TX, United States, ³Mead Johnson Nutritionals, Evansville, IN, United States

Wednesday, December 14

11:15 a.m.

619

PROTECTION AGAINST BOTULINUM NEUROTOXIN SEROTYPES A, B, AND C USING MIXTURES OF CANDIDATE VACCINES DERIVED FROM VENEZUELAN EQUINE ENCEPHALITIS (VEE) REPLICON VECTOR SYSTEM

Jennifer L. Groebner¹, John S. Lee¹, Kurt I. Kamrud², Leonard A. Smith³, Theresa J. Smith³, Cathleen M. Lind¹, Jeffrey D. Chulay², Jonathan F. Smith²

¹*Virology Division, USAMRIID, Frederick, MD, United States,*

²*AlphaVax, Inc., Research Triangle Park, NC, United States,*

³*Integrated Toxicology Division, USAMRIID, Frederick, MD, United States*

11:30 a.m.

620

ORAL FLUID IGG TETANUS ANTITOXIN: A NOVEL TOOL FOR MEASURING IMMUNIZATION COVERAGE

Milagritos D. Tapia¹, Lilian Cuberos¹, Samba O. Sow², Mama N. Doumbia², Modibo Bagayogo², Marcela F. Pasetti¹, Karen Kotloff¹, Myron M. Levine¹

¹*University of Maryland School of Medicine, Baltimore, MD, United States,* ²*Centre pour le Developpement des Vaccins - Mali, Bamako, Mali*

Symposium 103

Prospective Studies of Dengue Transmission and Disease in Kamphaeng Phet, Thailand

Monroe East

Wednesday, December 14 10:15 a.m. – Noon

Since 1998, children of Kamphaeng Phet, a rural province in north-central Thailand, have been the focus of an National Institute of Allergy and Infectious Diseases/MIDRP-funded prospective field study of dengue virus transmission and disease. Earlier this population participated in key field studies of vaccines against Japanese encephalitis and hepatitis A viruses. Dengue studies have yielded insightful new data on the dynamics of virus transmission in humans, immunologic correlates of disease, and entomological correlates to virus transmission. Participating investigators will summarize these data and discuss their relevance to future field studies, including evaluation of dengue vaccines.

CHAIR

Francis A. Ennis

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

Timothy P. Endy

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

10:15 a.m.

BURDEN OF DENGUE INFECTION AND ILLNESS

Supamit Chunsuttiwat

Ministry of Public Health, Nonthaburi, Thailand

10:40 a.m.

DYNAMICS OF DENGUE VIRUS TRANSMISSION WITHIN THAI VILLAGES

Mammen P. Mammen, Jr.

Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

11:05 a.m.

LONGITUDINAL TESTS OF ENTOMOLOGICAL ASSUMPTIONS FOR DENGUE CONTROL

Thomas W. Scott

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

11:30 a.m.

IMMUNOLOGIC CORRELATES OF DENGUE DISEASE

Alan L. Rothman

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

Scientific Session 104

Mosquitoes – Vector Biology – Epidemiology II

Monroe West

Wednesday, December 14 10:15 a.m. – Noon

CHAIR

Hilary Ranson

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Clare Strode

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:15 a.m.

622

PROGRESS TOWARDS A SPECIFIC MICROARRAY FOR DETECTING INSECTICIDE RESISTANCE IN FIELD POPULATIONS OF MALARIA VECTORS

Hilary Ranson¹, Jean Philippe David¹, Clare Strode¹, Pie Muller¹, John Vontas²

¹*Liverpool School of Tropical Medicine, Liverpool, United Kingdom,*

²*Agricultural University of Athens, Athens, Greece*

10:30 a.m.

623

THE DIFFERENTIAL GENE EXPRESSION OF DETOXIFICATION ENZYMES IN ADULT AND IMMATURE STAGES OF THE MALARIA MOSQUITO *ANOPHELES GAMBIAE*

Clare Strode, Janet Hemingway, Hilary Ranson

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:45 a.m.

624

TEMPORAL CHANGES IN THE FREQUENCY OF THE KNOCK-DOWN RESISTANCE ALLELE (KDR) IN ANOPHELES GAMBIAE MOLECULAR FORM S FROM CENTRAL BURKINA FASO

Federica Santolamazza¹, Beniamino Caputo¹, Marco Pombi¹, Pamela Avellino¹, Nora J Besansky², N'Fale Sagnon³, Carlo Costantini⁴, **Alessandra della Torre**¹

¹University of Rome, Rome, Italy, ²Notre Dame University, Notre Dame, IN, United States, ³Centre National de Recherche et Formation sur le Paludisme, Ouagadougou, Burkina Faso, ⁴Institut de Recherche pour le Développement (IRD), Ouagadougou, Burkina Faso

11 a.m.

625

A FRESH APPROACH EVALUATING ESTERASE B HETEROGENEITY OF CULEX PIPIENS COMPLEX POPULATIONS IN A TRANSECT FROM THE EASTERN UNITED STATES

Ling Zhou¹, Joseph H. Vineis², William G. Brogdon¹

¹Centers for Disease Control and Prevention, Chamblee, GA, United States, ²New York State Department of Health, Slingerlands, NY, United States

11:15 a.m.

626

INSECTICIDE TREATED MATERIALS FOR THE CONTROL OF DENGUE VECTORS IN LATIN AMERICA

Audrey Lenhart¹, Philip McCall¹, Elci Villegas², Manuel Ochoa³, Neal Alexander⁴, Axel Kroeger⁵

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Universidad de los Andes, Trujillo, Venezuela, ³IMSS-Oportunidades, Veracruz, Mexico, ⁴London School of Hygiene and Tropical Medicine, London, United Kingdom, ⁵WHO-TDR, Geneva, Switzerland

11:30 a.m.

627

THE USE OF PYRIPROXYFEN FOR THE CONTROL OF Aedes Aegypti IN IQUITOS, PERU

Gregor J. Devine¹, Jeff Stancil², Elvira Zamora³, Wagner Orellana³, Moises Sihuincha³, Carlos Vidal³, Amy Morrison⁴

¹Rothamstead Research, Harpenden, United Kingdom, ²Naval Medical Research Center, Detachment, APO, AE, United States, ³Direccion de Salud, Laboratorio Referencial, Iquitos, Peru, ⁴University of California, Davis, CA, United States

11:45 a.m.

628

TUBE BIOASSAY FOR QUANTIFYING REPELLENCY, DETERENCY, AND TOXICITY OF INSECTICIDE-TREATED BEDNET MATERIALS PRESENTED TO ANOPHELES GAMBIAE S.S.

James R. Miller¹, Piera Siegert¹, Edward Walker¹, Philip McCall²

¹Michigan State University, E. Lansing, MI, United States, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Scientific Session 105

Malaria – Clinical Trials and Trial Design

Lincoln East

Wednesday, December 14

10:15 a.m. – Noon

CHAIR

Martha M. Lemnge

Amani Medical Research Centre, National Institute for Medical Research, Tanga, United Republic of Tanzania

Ambrose Talisuna

Med Biotech Labs, Kampala, Uganda

10:15 a.m.

629

GENDER IMBALANCE IN PHASE 1 MALARIA VACCINE TRIALS IN AFRICA

Mahamadou A. Thera¹, Karim Traore¹, Abdoulaye K. Kone¹, Ando B. Guindo¹, Drissa Coulibaly¹, Issaka Sagara¹, Dapa A. Diallo¹, Alassane Dicko¹, Kirsten E. Lyke², Christopher V. Plowe², Ogobara K. Doumbo¹

¹Faculty of Medicine, Pharmacy and Dentistry, University of Bamako, Bamako, Mali, ²University of Maryland, School of Medicine, Baltimore, MD, United States

10:30 a.m.

630

CLINICAL CASE DEFINITIONS AND MALARIA VACCINE EFFICACY

William O. Rogers¹, Frank Atuguba², Abraham R. Oduro², Abraham Hodgson², Kwadwo A. Koram³

¹Naval Medical Research Unit #3, Cairo, Egypt, ²Navrongo Health Research Centre, Navrongo, Ghana, ³Noguchi Memorial Institute for Medical Research, Accra, Ghana

10:45 a.m.

631

THE IMPACT OF DIAGNOSTIC TECHNIQUE ON VACCINE EFFICACY MEASUREMENTS IN CLINICAL TRIALS

Wendy Prudhomme O'Meara, F. Ellis McKenzie

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

Wednesday, December 14

11 a.m.

632

A RANDOMIZED, DOUBLE BLINDED STUDY OF THE EFFICACY AND SAFETY OF TAFENOQUINE MONOTHERAPY FOR THE TREATMENT OF *PLASMODIUM VIVAX* IN ADULTS

Mark M. Fukuda¹, Srivicha Krudsood², Robert S. Miller¹, Krisada Jongsakul¹, Harald Noedl¹, Mali Ittiverakul¹, Nillawan Buathong¹, Sukhuma Warrasak³, Ataya Euswas³, Gobsiri Chalermrut², Noppadon Tangpukdee², Keith C. Deen⁴, Colin Neate⁴, Colin K. Ohrt⁵, Sornchai Looareesuwan²

¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ³Ramathibodi Faculty Hospital, Mahidol University, Bangkok, Thailand, ⁴GlaxoSmithKline, Collegeville, PA, United States, ⁵Walter Reed Army Institute of Research, Silver Spring, MD, United States

11:15 a.m.

633

INTERMITTENT PREVENTIVE TREATMENT FOR MALARIA IN PREGNANCY IN A RURAL AREA OF WESTERN KENYA: COMMUNITY-BASED ASSESSMENT TOWARDS IMPROVED COVERAGE

P.O. Ouma¹, A.M. van Eijk², Mary J Hamel², F. Odhiambo¹, E. Sikuku¹, A. Ayisi¹, A. Adazu¹, J. Vulule¹, L. Slutsker²

¹Kenya Medical Research Institute, Centre for Vector Biology and Control, Western Kenya, Kenya ²Centers for Disease Control and Prevention, Atlanta, GA

11:30 a.m.

634

MONITORING EFFICACY OF SULFADOXINE/PYRIMETHAMINE AND AMODIAQUINE AMONG UNDER-FIVES AT MOBILE CLINICS IN TWO COMMUNITIES IN MUHEZA, NORTHEASTERN TANZANIA

Martha M. Lemnge¹, Bruno Mmbando¹, Daniel Minja¹, Julius K. Mhina¹, Michael Alifrangis², Anita M. Ronn³, Ib C. Bygbjerg⁴

¹National Institute for Medical Research, Tanga, United Republic of Tanzania, ²Centre for Medical Parasitology, Institute of Medical Microbiology and Immunology, University of Copenhagen, Copenhagen, Denmark, ³Centre for Medical Parasitology, Copenhagen University Hospital, University of Copenhagen, Copenhagen, Denmark, ⁴Centre for Medical Parasitology, Institute of Public Health, University of Copenhagen, Copenhagen, Denmark

11:45 a.m.

635

ANTIMALARIAL DRUG POLICY IN THE EASTERN AFRICA SUB-REGION: CHALLENGES FOR CHANGING TO COMBINATION THERAPY AT DIFFERENT LEVELS OF HEALTH CARE DELIVERY

John H. Ouma¹, Ambrose Talisuna²

¹Maseno University, Via Kisumu, Kenya, ²Ministry of Health, Kampala, Uganda

Symposium 106

African Trypanosomiasis: Molecular Aspects of Tsetse and Parasite Transmission

Lincoln West

Wednesday, December 14

10:15 a.m. – Noon

The speakers will present recent work on the interactive biology of trypanosomes within tsetse host, the role of tsetse immune responses during parasite transmission as well as progress made towards tsetse genomics and full genome sequence of *Glossina*.

CHAIR

Serap Aksoy

Yale University, New Haven, CT, United States

Neil Hall

The Institute for Genomic Research, Rockville, MD, United States

10:15 a.m.

ROLE OF TSETSE MIDGUT LECTINS DURING TRYPANOSOME TRANSMISSION

Michael J. Lehane

Liverpool School of Tropical Medicine, Pembroke Place Liverpool, United Kingdom

10:45 a.m.

MIDGUT PROTEINS INVESTIGATED FOR PARASITE TRANSMISSION

Terry Pearson

University of Victoria, Victoria, BC, Canada

11:10 a.m.

TSETSE SALIVARY GLAND PROTEINS

Jan Van den Abbeele

Institute of Tropical Medicine, Antwerp, Belgium

11:35 a.m.

GENOMICS RESOURCES FOR GLOSSINA

Win Hide

South African National Bioinformatics Institute, Bellville, South Africa

Symposium 107

Malaria Vaccine Technology Roadmap: Results of Collaboration and Next Steps

Jefferson East

Wednesday, December 14 10:15 a.m. – Noon

The Malaria Vaccine Technology Roadmap (TRM) uses a novel approach to provide a coherent framework through which to focus resources, facilitate partnerships, and identify multiple research pathways to a viable malaria vaccine. A series of meetings during the past year has brought together a diverse group of over 225 stakeholders, including scientists, donors, and public health leaders representing more than 35 countries and 100 organizations. They discussed the challenges hindering malaria vaccine development and identified activities to address them. The Roadmap features the high-level results from these working meetings and groups the activities proposed into a set of broad initiatives that the community could adopt to accelerate malaria vaccine development. This symposium will present the Roadmap to the ASTMH community, seeking its feedback and soliciting its involvement in this ongoing process.

CHAIR

Sarah Ewart

The PATH Malaria Vaccine Initiative, Seattle, WA, United States

10:15 a.m.

INTRODUCTION TO THE MALARIA VACCINE TECHNOLOGY ROADMAP

Regina Rabinovich

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

10:40 a.m.

PRESENTATION OF ROADMAP RESULTS

Fred Binka

WHO, Geneva, Switzerland

11:05 a.m.

PRESENTATION OF THE ROADMAP INITIATIVES

Marie-Paule Kieny

WHO, Geneva, Switzerland

11:30 a.m.

PRESENTATION OF CURRENT ROADMAP ACTIVITIES AND NEXT STEPS

Melinda Moree

PATH Malaria Vaccine Initiative, Seattle, WA, United States

Symposium 108

New Horizons in Schistosomiasis: Where Do We Go From Here?

Jefferson West

Wednesday, December 14 10:15 a.m. – Noon

In recent years, researchers who study tuberculosis and filariasis have benefited greatly in terms of available funding by developing a cohesive agenda for their diseases. In contrast, certain avenues for funding in schistosomiasis have been limited by the lack of a consensus among investigators with respect to the questions of greatest significance. This symposium is designed to “start the conversation” about whether developing a more coordinated agenda is desirable, and if so, beginning to define what the elements of that agenda should be. In no way is this meant to limit the wide breadth of interesting research that schistosome researchers pursue, but the goal is to provide general accord that will better secure funding and investigators as we go forward. This symposium is part two of a two part series, which will highlight “where we are” and “where we’re going” in the field of schistosomiasis.

CHAIR

W. Evan Secor

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

Thomas A. Wynn

National Institutes for Health, Bethesda, MD, United States

10:15 a.m.

IT'S WORSE THAN WE THOUGHT: REASSESSING THE HEALTH BURDEN OF SCHISTOSOMIASIS

Charles H. King

Case Western Reserve University, Cleveland, OH, United States

10:45 a.m.

THE SUM OF THE WHOLE IS GREATER THAN THE SUM OF PARTS: EXPERIENCES OF THE GLOBAL ALLIANCE TO ELIMINATE LYMPHATIC FILARIASIS

Eric A. Ottesen

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

11:10 a.m.

YOU WANT MONEY FOR WHAT?????: PERSPECTIVES OF THE FUNDING AGENCIES

Stephanie L. James

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

11:35 a.m.

RESEARCH TO CONTROL: SHOULD WE (COULD WE) FORMULATE A PLAN; WHO WILL AGREE TO WHAT; AT WHAT COST?

Daniel G. Colley

University of Georgia, Athens, GA, United States

Symposium 109

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

Georgetown East

Wednesday, December 14 10:15 a.m. – Noon

This symposium is aimed at trainees and others interested in understanding better how manuscripts are reviewed, edited and processed by the society's journal. Pointers on preparation and review of manuscripts will be stressed. The following topics will be covered. 1. Why and where to publish, i.e. selection of the 'right' journal for your work. 2. Examples of a paper in progress; how to prepare and how to write a good paper 3. The submission and review processes and how they work 4. How to properly review a paper 5. How to respond to reviewer comments 6. The publication process: what happens after your paper is accepted.

CHAIR

James W. Kazura

Case Western Reserve University, Cleveland, OH, United States

Cathi Siegel

Case Western Reserve University, Cleveland, OH, United States

10:15 a.m.

SELECTION OF THE 'RIGHT' JOURNAL FOR YOUR WORK: WHAT CONSTITUTES A WELL VERSUS POORLY WRITTEN MANUSCRIPT: THE EDITORIAL PROCESS

James W. Kazura

Case Western Reserve University, Cleveland, OH, United States

10:50 a.m.

THE SUBMISSION AND REVIEW PROCESS: ORGANIZATION AND NITTY-GRITTY DETAILS

Cathi Siegel

Case Western Reserve University, Cleveland, OH, United States

11:25 a.m.

THE GOOD, BAD, AND UGLY OF THE REVIEW: EDITORIAL, CORRESPONDING AUTHOR AND REVIEWER PERSPECTIVES

Joe Vinetz

University of California, San Diego, CA, United States

Symposium 110

Impact of Sex and Hormones on Parasitic Infections

Georgetown West

Wednesday, December 14 10:15 a.m. – Noon

The prevalence and intensity of infections caused by protozoa, nematodes, trematodes, cestodes, and arthropods generally is higher in males than females. Immunological differences exist between the sexes that may underlie increased parasitism in males as compared with females. Several field and laboratory studies link sex differences in immune function with circulating steroid hormones; thus, the roles of sex steroids, including testosterone, estradiol and progesterone will be addressed. The primary goal of this symposium is to increase awareness about the prevalence and causes of sex differences in response to parasites.

CHAIR

Sabra L. Klein

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

10:15 a.m.

ROLE OF HOST SEX IN SUSCEPTIBILITY TO FILARIAL INFECTION

T. V. Rajan

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

10:45 a.m.

MECHANISMS OF SEX-DETERMINED RESISTANCE TO LEISHMANIA MEXICANA

Abhay R. Satoskar

Ohio State University, Columbus, OH, United States

11:10 a.m.

THE ROLE OF SEX STEROIDS IN HOST-PARASITE RELATIONSHIPS: THE CASE OF THE LARVAL CESTODE OF *TAENIA CRASSICEPS*

Jorge M. Montor

Universidad Nacional Autonoma de Mexico, Mexico City, Mexico

11:35 a.m.

INFLUENCE OF SEX AND HORMONES ON MALARIA INFECTION

Sabra L. Klein

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

Symposium 111

Burroughs Wellcome Fund Symposium: New Initiatives in Malaria Awards

Supported with funding from the Burroughs Wellcome Fund

International Ballroom East

Wednesday, December 14 10:15 a.m. – Noon

This symposium is designed to review and update progress in basic malaria research, supported through the Burroughs Wellcome Fund's New Initiatives in Malaria program. This year, speakers will be talking when, where, and how the plasmodium and the host come together.

CHAIR

Victoria P. McGovern

Burroughs Wellcome Fund, Research Triangle Park, NC, United States

10:15 a.m.

GENETIC AND FUNCTIONAL DISSECTION OF SUSCEPTIBILITY TO MALARIA

Mary Stevenson

McGill University, Montreal, Quebec, Canada

10:45 a.m.

MATERNAL MALARIA AND CHONDROITIN SULFATE PROTEOGLUCANS

Channe Gowda

Pennsylvania State University, Hershey, PA, United States

11:10 a.m.

GENETIC DISSECTION OF MALARIA MORBIDITY

James W. Kazura

Case Western Reserve University, Cleveland, OH, United States

11:35 a.m.

THE FUNCTION OF SPOROZOITE MEMBRANE PROTEINS IN GENETICALLY ENGINEERED MALARIA PARASITES

Victor Nussenzweig

New York University, New York, NY, United States

Symposium 112

Current Controversies in the Clinical Management of Cystic Echinococcosis

International Ballroom West

Wednesday, December 14 10:15 a.m. – Noon

In recent years there have been significant advances in hydatid chemotherapy and in percutaneous treatment as alternatives to traditional operative surgery. There is however, no widely agreed protocol for the management of this condition. This symposium will discuss the evidence for and relative merits of the available treatment modalities, and discuss the way forward.

CHAIR

Peter L. Chiodini

The Hospital for Tropical Diseases, London, United Kingdom

Enrico Brunetti

University of Pavia, Pavia, Italy

10:15 a.m.

THE STATE OF THE ART OF MANAGING PATIENTS WITH CYSTIC ECHINOCOCCOSIS

Thomas Junghanss

University of Heidelberg, Heidelberg, Germany

10:45 a.m.

PERCUTANEOUS TECHNIQUES FOR DIAGNOSIS AND TREATMENT

Enrico Brunetti

University of Pavia, Pavia, Italy

11:10 a.m.

MEDICAL TREATMENT OF CYSTIC ECHINOCOCCOSIS

John Horton

The Paddock, Hitchin, United Kingdom

11:35 a.m.

IS THIS THE END OF THE ROAD FOR SURGICAL MANAGEMENT?

Antonio Menezes M. da Silva

Hospital Pulido Valente, Lisbon, Portugal

Burroughs Wellcome Fund – ASTMH Fellowship Committee Meeting

Chevy Chase

Wednesday, December 14 Noon – 1:30 p.m.

Exhibit Hall Open/Box Lunches

Exhibit Hall

Wednesday, December 14 Noon – 2:30 p.m.

Poster Session B

Exhibit Hall

Wednesday, December 14 Noon – 1:30 p.m.

Protozoa – Opportunistic Protozoa

24

ISOSPORIASIS AND FECAL EOSINOPHILIA

J.C. Petithory, F. Ardoin, L.R. Ash

Qualité en Parasitologie et Biologie, Centre Hospitalier 95500 Gonesse France; Department of Epidemiology, UCLA School of Public Health, Los Angeles, CA

Arthropods/Entomology – Other

636

MOLECULAR APPROACHES TO THE ANALYSIS OF EPIDEMIOLOGY, DRUG RESISTANCE AND HOST IMMUNE RESPONSES TO THE SCABIES MITE SARCOPTES SCABIEI

Deborah Holt, Kate Mounsey, Susan Pizzutto, Amy Slender, Shelley Walton

Menzies School of Health Research, Casuarina, Australia

(ACMCIP Abstract)

637

A STUDY OF STORAGE CONDITIONS FOR SAND FLY SAMPLES TO BE TESTED BY REAL TIME PCR

Lara Gilmore, Lisa Hochberg, Edgar Rowton, Phillip Lawyer, Russell Coleman

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

(ACMCIP Abstract)

638

GENETIC STRUCTURE OF *TRITOMA INFESTANS* POPULATIONS FROM RURAL VILLAGES IN NORTHERN ARGENTINA

Paula L. Marcet¹, LeeAnn Jones², Ricardo E. Gürtler¹, Uriel Kitron³, Ellen M. Dotson²

¹University of Buenos Aires, Buenos Aires, Argentina, ²Centers for Disease Control and Prevention - DPD - Entomology, Atlanta, GA, United States, ³University of Illinois, Urbana, IL, United States

639

GENETIC STRUCTURE OF *TRITOMA INFESTANS* POPULATIONS FROM NORTHERN ARGENTINA AND OTHER SOUTH AMERICA COUNTRIES BASED ON MITOCHONDRIAL DNA ANALYSIS

Paula L. Marcet¹, LeeAnn Jones², Romina Piccinali¹, Ricardo E. Gürtler¹, Uriel Kitron³, Ellen M. Dotson⁴

¹University of Buenos Aires, Buenos Aires, Argentina, ²Centers for Disease Control and Prevention - DPD - Entomology, Atlanta, GA, United States, ³University of Illinois, Urbana, IL, United States,

⁴Centers for Disease Control and Prevention - DPD - Entomology, Atlanta, GA, United States

640

EFFECTS OF HEALTH SECTOR REFORM AND DECENTRALIZATION ON MALARIA ENDEMIC COLOMBIAN MUNICIPALITIES

Gabriel Carrasquilla¹, Olga L. Gómez², Julio C. Mateus³

¹Fundación Santa Fe de Bogota, Bogotá, Colombia, ²Fundación para la Educación Superior-FES, Cali, Colombia, ³Universidad del Valle, Fundación para la Educación Superior-FES, Cali, Colombia

641

ACCEPTANCE OF INSECTICIDE TREATED NETS (ITNS) COMPARED TO ENTOMOLOGICAL DATA

Léa M. Pare Toe¹, A. Diabaté¹, R. Dabiré¹, Ole Skovmand², M. Akogbeto³, T. Baldet³

¹Centre Muraz, Bobo Dioulasso, Burkina Faso, ²Intelligent Insect Control, Montpellier, France, ³CIRAD, Montpellier, France

642

SALIVA OF THE TSETSE FLY *GLOSSINA PALPALIS* MODULATES ANTIGEN-STIMULATED IMMUNE EFFECTOR CELL FUNCTIONS IN A MOUSE MODEL

Donald E. Champagne¹, Serap Aksoy²

¹University of Georgia, Athens, GA, United States, ²Yale University School of Medicine, New Haven, CT, United States

(ACMCIP Abstract)

644

ANALYSIS OF AN EXPRESSED SEQUENCE TAG COLLECTION FROM THE SAND FLY *LUTZOMYIA LONGIPALPIS* AND ITS CONTRIBUTION TOWARDS UNDERSTANDING THE HOST-PARASITE RELATIONSHIP

Rod J. Dillon¹, Al C. Ivens², Bento Soares³, Paul A. Bates¹, Mike J. Lehane¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²The Sanger Institute, Cambridge, United Kingdom, ³University of Iowa, Iowa City, IA, United States

645

LABORATORY DEMONSTRATION OF THE ACQUISITION AND DEVELOPMENT OF *LEISHMANIA MAJOR* IN THE SAND FLY *PHLEBOTOMUS KAZERUNI* (DIPTERA: PSYCHODIDAE)

Hanafi Hanafi, David J. Fryauff, Elizabeth Dykstra, Daniel J. Szumlas

U.S. Naval Medical Research Unit No. 3, FPO AE, Egypt

Bacteria – Diarrheal Diseases/Mucosal Immunity**646****DETECTION OF VIRULENCE GENES FROM HELICOBACTER PYLORI ISOLATED FROM PATIENTS WITH PEPTIC ACID DISEASE****Jose L Sanchez-Salas**¹, Erika Rello-Jeromin¹, Angeles Pavon², Laura V Pla¹¹Universidad De Las Americas, Puebla, Cholula, Puebla, Mexico; ²IMSS, Manuel Avila Camacho. Hospital de Especialidades, Puebla, Mexico, Puebla, Puebla, Mexico

(ACMCIP Abstract)

647**A CASE OF CHOLERA IN A TOURIST RETURNING FROM AN ALL-INCLUSIVE VACATION RESORT IN MEXICO****Julie Carson**¹, Kinga Kowalewska-Grochowska¹, Joy Jaipaul², Marcia Johnson², Darryl S. Stewart³¹University of Alberta, Edmonton, AB, Canada, ²Capital Health (Public Health Division), Edmonton, AB, Canada, ³Leduc General Hospital, Leduc, AB, Canada**648****REAL-TIME PCR FOR THE AMPLIFICATION OF THE IPAH GENE REFLECTS THE TRUE BURDEN OF SHIGELLOSIS IN ENDEMIC AREAS****May Sherif**¹, Zaynab Mohran¹, Mostafa Sadek¹, Rania Abdelkhalik¹, Atef El-Gendy¹, Hind Shaheen¹, John , Klena¹, Shan Putnam², David Rockabrand¹, Marshall Monteville¹, Mark Riddle¹, John Sanders¹, Robert W. Frenck³¹US Naval Medical Research Unit-3, Cairo, Egypt, ²US Naval Medical Research Unit-2, Jakarta, Indonesia, ³Harbor-UCLA Medical Center, Torrance, CA, United States**Bacteria – Other****649****COST-EFFECTIVENESS OF BRUCellosis CONTROL PROGRAMS – EGYPT, 2004****Diane K. Gross**¹, Kaushik Mukhopadhyaya¹, Thomas H. Taylor¹, Brian Plikaytis¹, Martin I. Meltzer¹, Sonal Pathak¹, Maha Talaat², Greg Jennings², Amgad El Kholy², Hassan Shafik³, Nasr El-Sayed⁴, Rana Hajjeh², Thomas A. Clark¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²NAMRU-3, Cairo, Egypt, ³Egyptian General Organization for Veterinary Services, Cairo, Egypt, ⁴Egyptian Ministry of Health, Cairo, Egypt**650****CHRONIC TUBERCULOUS ARTHRITIS AFTER TRAUMA****Farah Shams**, Deborah Asnis, David Di John, Alicia Lazzara, Charles Lombardi

Flushing Hospital Medical Center, Flushing, NY, United States

651**STANDARDIZATION OF SERODIAGNOSIS FOR LYME DISEASE INFECTION IN THE TAIWAN AREA****Chien-Ming Shih**¹, Ying-Chun Chen¹, Li-Lian Chao¹, Hsu-Mei Hsu²¹Department of Parasitology and Tropical Medicine, National Defense Medical Center, Taipei, Taiwan Republic of China, ²Centers for Disease Control, Department of Health, Taipei, Taiwan Republic of China**652****SEROEPIDEMIOLOGY OF LYME DISEASE INFECTION IN TAIWAN****Li-Lian Chao**, Ying-Chun Chen, Chien-Ming Shih

Department of Parasitology and Tropical Medicine, National Defense Medical Center, Taipei, Taiwan Republic of China

Bacteria – Systemic Infections**653****DETECTION AND IDENTIFICATION OF PATHOGENIC AND SAPROPHYTIC LEPTOSPIRA STRAINS BY A PCR MATRIX APPROACH USING MULTIPLE PRIMERS****Joshua S. Hawley**, Raven E. Reitstetter, Barbara A. Reeb, Sandra K. Stuart, Mirium L. Beckius, Clinton K. Murray, Duane R. Hospenthal

Brooke Army Medical Center, Ft Sam Houston, TX, United States

654**LABORATORY-BASED SURVEILLANCE FOR PATIENTS WITH ACUTE MENINGITIS IN SUDAN, 2004-2005****Mubarak S. Karsany**¹, Salma A. Afifi², Magdy Salih¹, Babikr Magboul¹, Osman Bilail¹, Billah El-Hassan³, Ahmed El-Fadel³, Ali Younis³, Gaffar Bin-Ouf³, Nadia Teleb⁴, Guillermo Pimentel², Rana Hajjeh⁵¹Federal Ministry of Health, Khartoum, Sudan, ²NAMRU-3, Cairo, Egypt, ³Khartoum State Health Department, Khartoum, Sudan, ⁴WHO/EMRO, Cairo, Egypt, ⁵US Naval Medical Research Unit # 3, Cairo, Egypt; Centers for Disease Control and Prevention, Atlanta, GA, United States**655****OUTBREAK OF TYPHOID FEVER, WESTERN PROVINCE, KENYA – 2004**A. S. Manyal¹, I. Sifuna², C. Onyango³, F. Amudavi², J. Onteri⁴, I. Wasike², J. Gehrke⁵, C. Nzioka⁴, K. Winger⁶, R. Novak⁶, **Thomas A. Clark**⁶, L. Harris⁶, M. Ari⁶, M. Bird⁶, E. Mintz⁶, J. Singleton⁶, A. Loftis⁶, J. Moriarty⁶, J. McQuiston⁶, D. Swerdlow⁶, J. Drobeniuc⁶, G. Armstrong⁶, R. Coldren⁵, R. Breiman⁷, D. Feikin⁷¹Centers for Disease Control and Prevention, Kenya, Nairobi, Kenya, ²Bungoma District Medical Office, Bungoma, Kenya, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴Kenya Ministry of Health, Nairobi, Kenya, ⁵Walter Reed Program, Kenya, Nairobi, Kenya, ⁶Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁷International Emerging Infections Program, Kenya, Nairobi, Kenya

Cestodes — Cysticercosis

656

A SIMPLE DIAGNOSTIC PROCEDURE FOR TAENIA SOLIUM TAENIASIS

Carlos Figueroa¹, Silvia Rodriguez¹, Carmen Taquiri¹, Abiud Noriega¹, Daniel Aponte¹, Juan Chero¹, Luz Maria Moyano¹, Guillermo Gonzalvez¹, Hector H. Garcia¹, for the Cysticercosis Working Group in Peru²

¹Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Universidad Peruana Cayetano Heredia, Lima, Peru

657

SENSITIVITY AND SPECIFICITY OF COPROANTIGEN DETECTION BY F.A.S.T.-ELISA IN DIAGNOSING HUMAN TAPEWORM (TAENIA SOLIUM) INFECTIONS

Yessika Vasquez¹, Silvia Rodriguez¹, Hector H. Garcia¹, James C. Allan², Robert H. Gilman³, Armando E. Gonzalez⁴, John Noh⁵, Sowmya Pattabhi⁵, Victor C. Tsang⁵

¹Cysticercosis Unit, Instituto Especializado en Ciencias Neurológicas, Lima, Peru, ²Department of Biological Sciences, University of Salford, Salford, United Kingdom, ³Department of International Health, Johns Hopkins School of Public Health, Baltimore, MD, United States, ⁴School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁵Immunology Branch, Division of Parasitic Diseases, Centers for Disease Control, Atlanta, GA, United States

(ACMCIP Abstract)

658

INFORMATION SYSTEM FOR MANAGING THE ELIMINATION PROGRAM OF CYSTICERCOSIS IN PERU

José Olivera¹, Silvia Rodríguez¹, **Jaime R. Romero**¹, Héctor H. García¹, Armando E. González², Robert H. Gilman¹, Víctor C. Tsang³, Fernando Llanos¹, Cysticercosis Working Group Perú¹

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

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PARTITIONING OF THE NEW ANTIMALARIAL PRODRUG DB289 AND ITS ACTIVE DIAMIDINE, DB75, INTO MALARIA-INFECTED AND NON-INFECTED HUMAN AND MOUSE ERYTHROCYTES IN VITRO

James L. Allen¹, Karen Fitzpatrick², Brian A. John², Steven J. Townley², Angela McGowan², Leslie C. Akhurst², Emily Bongard³, Livia Vivas³

¹Immtech International, Inc., Vernon Hills, IL, United States, ²Huntingdon Life Sciences, Ltd, Huntingdon, Cambridgeshire, United Kingdom, ³London School of Hygiene and Tropical Medicine, London, United Kingdom

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IMPORTED TYPHOID FEVER IN CHILDREN, A 20-YEAR EXPERIENCE

Laura Sauve¹, Susan Krajewski², Susan E. Richardson¹, Frances Jamieson³, Upton Allen¹, Jay Keystone⁴, E. Lee Ford-Jones¹

¹Hospital for Sick Children, Toronto, ON, Canada, ²University of Toronto, Toronto, ON, Canada, ³Central Public Health Laboratory, Ontario Ministry of Health and Long-term Care, Toronto, ON, Canada, ⁴Tropical Disease Unit, Toronto General Hospital-University Health Network, Toronto, ON, Canada

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CAUSES OF DEATHS USING VERBAL AUTOPSY AMONG ADOLESCENTS AND ADULTS IN RURAL WESTERN KENYA

Anna M. van Eijk¹, Kubaje Adazu¹, Peter Ofware², John Vulule², Mary Hamel¹, Laurence Slutsker¹

¹Centers for Disease Control / Kenya Medical Research Institute, Kisumu, Kenya, ²Kenya Medical Research Institute, Kisumu, Kenya

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Deborah Asnis, **David Di John**, Alan Lesman
Flushing Hospital Medical Center, Flushing, NY, United States

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Jonathan B. Parr¹, Jesus Emmanuel Sevilleja¹, Cirle Alcantara¹, Suzanne E. Stroup¹, Ron Fayer², Richard L. Guerrant¹

¹University of Virginia School of Medicine, Charlottesville, VA, United States, ²US Department of Agriculture, Agricultural Research Service, Beltsville, MD, United States

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Mario L. Perez, Carolann R. Rosario, Jeffrey D. Cao, Veena M. Singh, Michael B. Ing

J. L. Pettis Memorial VA Medical Center, Loma Linda, CA, United States

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Gregory M. Anstead¹, Qiong Zhang¹, Arun Bhattacharya², Martin L. Adamo³, Gabriel Fernandes³, Peter C. Melby¹

¹South Texas Veterans Healthcare System, San Antonio, TX, United States, ²University of Texas Health Science Center, San Antonio, TX, United States, ³University of Texas Health Science Center, San Antonio, TX, United States

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PERSISTENCE OF NEUTRALIZING ANTIBODIES AFTER ONE INJECTION OF MONOVALENT CHIMERIVAX DENGUE 2 VACCINE

Rémi Forrat¹, Dennis Morrison², Niranjan Kanesa-Thasan³, Farshad Guirakhoo³, Sutee Yoksan⁴, Thomas Monath³, Jean Lang¹

¹Sanofi Pasteur, Marcy l'Etoile, France; ²Bio-Kinetic Clinical Applications, Springfield, MO; ³Acambis Inc, Cambridge, MA; ⁴Center for Vaccine Development, Nakhonpathom, Thailand

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COMPARISON OF CLINICAL FEATURES AND HEMATOLOGIC ABNORMALITIES BETWEEN DENGUE FEVER AND DENGUE HEMORRHAGIC FEVER AMONG CHILDREN IN THE PHILIPPINES

Kazunori Oishi¹, Celia Carlos², Cynthia Mapua², Maria T. Cinco², Shingo Inoue¹, Ronald R. Matias², Filipinas F. Natividad²

¹Institute of Tropical Medicine, Nagasaki, Japan, ²St. Luke's Medical Center, Quezon City, Philippines

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Felix C. Mills-Robertson¹, Winifred O. Kumi², Isaac K. Forson³, Sylvester Kaminta¹, Fidelia Senayah¹, Gloria Adjapong¹

¹Centre For Scientific Research Into Plant Medicine, Box 73, Mampong-Akwapim, Ghana, ²Noguchi Memorial Institute For Medical Research, University Of Ghana Legon, Ghana, ³Noguchi Memorial Institute For Medical Research, University Of Ghana, Legon, Ghana

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LONG-TERM SURVEILLANCE OF SUBJECTS IMMUNIZED WITH LIVE ATTENUATED TETRAVALENT DENGUE VACCINE IN THAILAND

Rémi Forrat¹, Arunee Sabchareon², Sutee Yoksan³, Chukiate Sirivichayakul², Pornthep Chanthavanich², Kriengsak Limkittikul²

¹Sanofi Pasteur, Marcy l'Etoile, France, ²Vaccine Trial Center - Faculty of Tropical Medicine, Bangkok, Thailand, ³Center for Vaccine Development - Institute of Sciences and Technology for Research and Development, Nakhonpathom, Thailand

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SHIRKING THE WORM: A QUESTION OF TREATMENT DELAY

Seth O'Neal¹, Luiz Henrique Guimaraes², Paulo Machado², Leda Alcantara², Dan Morgan³, Sara Passos², Edgar Carvalho², Dan Fitzgerald³

¹Oregon Health and Sciences University, Portland, OR, United States, ²Universidade Federal da Bahia, Salvador, Brazil, ³Weill Medical College of Cornell University, New York, NY, United States

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DEVELOPING NATIONAL AND INTERNATIONAL STRATEGIES FOR DISASTER PREPAREDNESS AND RESPONSE

Walter Pasini

World Health Organization, Rimini, Italy

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DETECTION OF *CRYPTOSPORIDIUM* SPP. IN STOOL BY MULTIPLEX REAL-TIME PCR

Suzanne E. Stroup, Eric R. Houpt

University of Virginia, Charlottesville, VA, United States

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TRAVEL CONSULTATIONS FOR IMMIGRANT CHILDREN AT AN INNER-CITY HOSPITAL IN THE BRONX, NEW YORK 2003-2004

Valeria Benavides¹, Anu Vatsan¹, Kabir Keshinro¹, Murli Purswani², Stefan Hagmann²

¹Bronx Lebanon Hospital Center, Department of Pediatrics, Bronx, NY, United States, ²Bronx Lebanon Hospital Center, Division of Pediatric Infectious Diseases, Bronx, NY, United States

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RICKETTSIAL INFECTIONS ARE COMMON CAUSES OF FEVER AMONGST ADULTS IN THE LAO PDR

Paul N. Newton¹, Simalee Phongmany¹, Jean Marc Rolain², Rattanaphone Phetsouvanh¹, Stuart Blacksell³, Vimone Soukkhaserm¹, Bouachanh Rasachack¹, Khamphong Phiasakha¹, Surn Soukkhaserm¹, Kammthavi Frichithavong¹, Van Chur¹, Valy Keoulouanghot¹, Bertrand Martinez-Aussel⁴, Ko Chang¹, Chirapha Darasavath¹, Oudayvone Rattanavong¹, Siho Sisouphone¹, Mayfong Mayxay¹, Sisouphane Vidamaly¹, Philippe Parola², Chanpheng Thammavong¹, Mayboun Heuangvongsy¹, Bounkong Syhavong¹, Didier Raoult², Nicholas J. White³

¹Mahosot Hospital, Vientiane, Lao People's Democratic Republic, ²Unité des Rickettsies, Faculté de Médecine, Université de la Méditerranée, Marseille, France, ³Faculty of Tropical Medicine, Bangkok, Thailand, ⁴Francophone Institute of Tropical Medicine, Vientiane, Lao People's Democratic Republic

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REACTIVITY OF BLOOD SAMPLES SPOTTED ONTO FILTER PAPERS IN THE WST-8 METHOD FOR SCREENING OF G6PD DEFICIENCY

Meiji Arai¹, Kazuko Kosuge¹, Fumihiko Kawamoto², Hiroyuki Matsuoka¹

¹Jichi Medical School, Tochigi, Japan, ²Oita University, Oita, Japan

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APPLICATION OF MEDICAL INFORMATICS TO INVESTIGATE ETIOLOGIES OF PEDIATRIC SEVERE MALARIAL ANEMIA IN A PLASMODIUM FALCIPARUM HOLOENDEMIC AREA

Zach Landis Lewis¹, Steve N. Mogere², Gerry Douglas³, Amos K'ogal⁴, John Michael Ong'echa⁴, **Douglas J. Perkins**¹

¹Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, ²Department of Health Sciences, Kenyatta University, Nairobi, Kenya, ³Center for Biomedical Informatics, University of Pittsburgh, Pittsburgh, PA, United States, ⁴University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya

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A RECENT HISTORY OF LEISHMANIA, MALARIA, AND OTHER ENDEMIC DISEASES IN IRAQ

Jennifer B. Caci¹, Deanna A. Brown², **Peter J. Weina**³

¹Center for Health Promotion and Preventive Medicine, Atlanta, GA, United States, ²U.S. Army Special Operations Command, Ft. Bragg, NC, United States, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States

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PATTERNS OF GENE EXPRESSION THAT CHARACTERIZE OUTCOMES OF PLASMODIUM FALCIPARUM INFECTION

Craig S. Boutlis¹, Holly K. Dressman², Emiliana Tjitra³, Helena Maniboey⁴, Joseph R. Nevins², J. Brice Weinberg⁵, Nicholas M. Anstey¹

¹Menzies School for Health Research, Darwin, Australia, ²Duke University Medical Center, Durham, NC, United States, ³National Institute of Health Research and Development, Jakarta, Indonesia, ⁴National Institute of Health Research and Development and Menzies School for Health Research, Jayapura, Indonesia, ⁵Duke University and VA Medical Centers, Durham, NC, United States (ACMCIP Abstract)

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TREATMENT OF MALARIA DURING PREGNANCY IN SOUTHERN VENEZUELA

Nelly Hernández¹, Carlos Vásquez¹, Frank Veliz¹, Maria-Eugenia Guevara², María Girón¹, César Fuenmayor¹, Luis Petterson³, Milángela Pacheco⁴, Ada Peña¹, Belarmino Medina¹, Gilberto Guardia¹, Mario Valcárcel⁵, Victor Pacheco¹, **Leopoldo Villegas**¹

¹RAVREDA/AMI, Caracas, Venezuela, ²Hospital J.G. Hernández, Tumeremo, estado Bolívar, Venezuela, ³Centro de Investigación de Campo Dr. Francesco Vitanza, Tumeremo, Estado Bolívar, Venezuela, ⁴Demarcación F, Malariología, Tumeremo, estado Bolívar, Venezuela, ⁵OPS/OMS, Caracas, Venezuela

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TREATMENT OF MULTIDRUG-RESISTANT FALCIPARUM MALARIA DURING PREGNANCY WITH MEFLOQUINE-ARTESUNATE IN VENEZUELA: PRELIMINARY RESULTS

Leopoldo Villegas¹, Nelly Hernández², Carlos Vásquez², Frank Veliz², Maria-Eugenia Guevara³, Belem Salazar², Maria Giron², Cesar Fuenmayor², Ada Peña², Belarmino Medina², Gilberto Guardia², Victor Pacheco², Dario Gonzalez⁴, Mario Valcarcel¹

¹OPS/OMS, Caracas, Venezuela, ²RAVREDA/AMI, Caracas, Venezuela, ³Hospital J.G. Hernández, Tumeremo, estado Bolívar, Venezuela, ⁴MSDS, Programa de Control Malaria, Maracay, estado Aragua, Venezuela

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MALARIA AMONG PREGNANT WOMEN LIVING ON THE VENEZUELAN-GUYANAN BORDER

Eglee López¹, Lisbeth Gómez¹, Doria Gouveia¹, Nelly Hernández², Belem Salazar², Maria Giron², Cesar Fuenmayor², Luis Petterson³, Victor Pacheco², Enrique Garrido⁴, Mario Valcárcel⁴, **Leopoldo Villegas**⁴

¹MSDS, Dirección General de Salud Ambiental, Maracay, estado Aragua, Venezuela, ²RAVREDA/AMI, Caracas, Venezuela, ³Centro de Investigación de Campo Dr. Francesco Vitanza, Tumeremo, estado Bolívar, Venezuela, ⁴OPS/OMS, Caracas, Venezuela

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MEDICAL SCREENING AND SYPHILIS IN IMMIGRATION APPLICANTS TO CANADA — 2000 TO 2004

Douglas W. MacPherson, Brian D. Gushulak

Migration Health Consultants Inc, Cheltenham, ON, Canada

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INTERACTION PARTNERS OF SCABIES MITE INACTIVATED PROTEASE PARALOGUES

Katja Fischer¹, Deborah C. Holt², Charlene Willis¹, Anna Topping¹, Dave J. Kemp¹

¹The Queensland Institute of Medical Research, Brisbane, Australia,

²Menzies School of Health Research, Darwin, Australia

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CLINICAL AND EPIDEMIOLOGICAL CHARACTERISTICS OF HUMAN WEST NILE VIRUS INFECTION PRESENTING TO SELECTED HEALTHCARE FACILITIES IN SAN BERNARDINO AND RIVERSIDE COUNTIES, CALIFORNIA, 2004

Mario L. Perez¹, Ranjith Wijeratne¹, Michael B. Ing¹, Jea Hyun Lee², Richard L. Morrissey²

¹J. L. Pettis Memorial VA Medical Center, Loma Linda, CA, United States, ²Kaiser Permanente, Fontana, CA, United States

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DETECTION OF ANTIBODIES AGAINST FASCIOLA HEPATICA IN PATIENTS WITH LIVER CIRRHOSIS IN PERU

Luis Marcos¹, Alejandro Bussalleu¹, Angelica Terashima¹, José R. Espinoza²

¹Instituto de Medicina Tropical Alexander von Humboldt, Lima, Peru, ²Facultad de Ciencias y Filosofía "Alberto Cazorla Talleri" - Universidad Peruana Cayetano Heredia, Lima, Peru

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Agus Suwandono¹, J. Kevin Baird², Endang R. Sedianingsih¹, Patrick J. Blair², Bambang Heriyanto¹, Shannon D. Putnam², Syahril Harun¹, Deci Subekti², Joko Yuwono¹

¹National Institute of Health Research and Development, Jakarta, Indonesia, ²U.S. NAMRU-2, Jakarta, Indonesia

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INTERNATIONAL HEALTH CARE ADVICE AND TREATMENT DURING AUTOMOBILE SELF-DRIVE CULTURE ACTIVITY OF ROUND TRIP FROM CHINA TO FRANCE

Liu Zhi Yong, Guo Jing

China International Travel Healthcare Association (CITHA), Beijing, China

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SUPPLYING HEALTH CARE AND EPIDEMIC INFORMATION FOR INTERNATIONAL TRAVELLERS USING INTERNET WEBSITE

Dayun Chen

CIQA, Beijing, China

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MALARIA SURVEY AND MOLECULAR ANALYSIS OF GLUCOSE-6-PHOSPHATE DEHYDROGENASE VARIANTS IN SOUTHEAST ASIAN COUNTRIES

Hiroyuki Matsuoka¹, Meiji Arai¹, Fumihiko Kawamoto²

¹Jichi Medical School, Tochigi-ken, Japan, ²Oita University, Oita-ken, Japan

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THROMBOCYTOPENIA AND PLASMODIUM VIVAX MALARIA IN ADANA, EASTERN MEDITERRANEAN COAST OF TURKEY

Ismail Soner Koltas, Hakan Demirhindi, Kadri Ozcan

Cukurova University, Adana, Turkey

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DEFINING SICK BUILDING SYNDROME IN ADULTS AND CHILDREN AS A CASE-CONTROL SERIES AS A BIOTOXIN-ASSOCIATED ILLNESS: DIAGNOSIS, TREATMENT AND DISORDERS OF INNATE IMMUNE RESPONSE, MSH, SPLIT PRODUCTS OF COMPLEMENT, IL-1B, IL-10, MMP9, VEGF, AUTOIMMUNITY AND HLA DR

Ritchie C. Shoemaker

Center for Research on Biotoxin Associated Illnesses, Pocomoke, MD, United States

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C3A AND C4A: COMPLEMENT SPLIT PRODUCTS IDENTIFY PATIENTS WITH ACUTE LYME DISEASE

Ritchie C. Shoemaker¹, Patsy Giclas², Michael Glovsky³

¹Center for Research on Biotoxin Associated Illnesses, Pocomoke, MD, United States, ²National Jewish Research and Medical Center, Center for Research on Biotoxin Associated Illnesses, Denver, CO, United States, ³Quest Nichols Diagnostics, Inc, San Juan Capistrano, CA, United States

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PRESCRIPTION AND ADMINISTRATION OF A 14-DAY REGIMEN OF ZINC TREATMENT FOR CHILDHOOD DIARRHEA IN MALI

Peter J. Winch¹, Kate E. Gilroy¹, Seydou Doumbia², Amy Patterson¹, Zana Daou³, Seyon Coulibaly³, Danaya Kone², Eric Swedberg⁴, Robert E. Black¹

¹Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ²Faculty of Medicine/Malaria Research and Training Center, Bamako, Mali, ³Save the Children, Bougouni, Mali, ⁴Save the Children, Westport, CT, United States

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MMP9, VISUAL CONTRAST SENSITIVITY, C3A, C4A AND HLA DR: NEW DIAGNOSTIC AIDS IN ACUTE AND CHRONIC LYME DISEASE

Ritchie C. Shoemaker

Center for Research on Biotoxin Associated Illnesses, Pocomoke, MD, United States

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AN OVERVIEW OF THE STEPS REQUIRED TO GAIN CAP ACCREDITATION FOR A CLINICAL LABORATORY RUNNING A MOLECULAR ASSAY FOR THE DIAGNOSIS OF CUTANEOUS LEISHMANIASIS

Caroline Liebig¹, David Shoemaker², Lisa Hochberg¹, Lara Gilmore¹, Marshall Van de Wyngaerde¹, Peter Weina¹, Russell Coleman¹, Glenn Wortmann³, Alan Magill¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Army Medical Material Development Activity, Ft. Detrick, MD, United States, ³Walter Reed Army Medical Center, Washington, DC, United States

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A CROSS-SECTIONAL, CASE-FINDING STUDY OF TRAVELERS' DIARRHEA AMONG U.S. MILITARY PERSONNEL DEPLOYED TO IRAQ

John W. Sanders¹, Shannon D. Putnam², Louis E. Antosek³, David M. Rockabrand¹, James Herbst⁴, David R. Tribble³, Mark S. Riddle¹, Trueman W. Sharp¹, Marshall R. Monteville¹

¹U.S. NAMRU-3, FPO, AE, United States, ²U.S. NAMRU-2, FPO, AE, United States, ³U.S. NMRC, Silver Spring, MD, United States, ⁴FDPMU-East, FPO, AE, United States

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DEVELOPMENT AND VALIDATION OF AN FDA-CLEARED REAL-TIME PCR DIAGNOSTIC KIT FOR OLD WORLD CUTANEOUS LEISHMANIASIS

Marshall Van de Wyngaerde¹, David Shoemaker², Lisa Hochberg¹, Wayne Gilmore¹, Lara Gilmore¹, Caroline Liebig¹, Peter Weina¹, Russell Coleman¹, Glenn Wortmann³

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Army Medical Material Development Activity, Ft. Detrick, MD, United States, ³Walter Reed Army Medical Center, Washington, DC, United States

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REACTIVE NITROGEN INTERMEDIATES IN PLASMODIUM VIVAX MALARIA IN CUKUROVA REGION, TURKEY

Salih Hazar¹, Lulufer Tamer², Hakan Demirhindi³, Ismail Soner Koltas³, Muhsin Akbaba³

¹Mersin State Hospital, Mersin, Turkey, ²Mersin University, Mersin, Turkey, ³Cukurova University, Adana, Turkey

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HOSPITAL-BASED SURVEILLANCE FOR DIARRHEA: A DESCRIPTIVE STUDY OF ABU HOMOS DISTRICT HOSPITAL, MAY 2000 TO MAY 2005

Adel M. Mansour¹, Carey Schlett¹, Nassr El Sayed², Manal Moustafa¹, Hind I. Shaheen¹, Ibraheem A. Abd El Messeh¹, Zakaria Abd Raboo³, Zaynab El Wakeel³, Hanann El Mohamady¹, Ashraf Ayad³, Thomas F. Wierzbza⁴, Robert W. Frenck⁵, Mark S. Riddle¹, John W. Sanders¹

¹U.S. NAMRU-3, FPO, AE, United States, ²Ministry of Health and Population, Cairo, Egypt, ³Ministry of Health and Population, Abu Homos, Egypt, ⁴WHO, Kathmandu, Nepal, ⁵UCLA, Los Angeles, CA, United States

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EPIDEMIOLOGY OF DIARRHEA AMONG DEPLOYED MILITARY PERSONNEL IN SUPPORT OF OPERATION IRAQI FREEDOM AND OPERATION ENDURING FREEDOM

Marshall R. Monteville¹, Mark S. Riddle¹, David M. Rockabrand¹, Shannon Putnam², Usha Baht³, Kenneth Brooks³, Jamie Bland³, Robert W. Frenck⁴, John W. Sanders¹

¹U.S. Naval Medical Research Unit No. 3, Cairo, Egypt, ²U.S. Naval Medical Research Unit No. 2, Jakarta, Indonesia, ³ARCENT Troop Medical Clinic, Doha, Qatar, ⁴University of California Los Angeles, Los Angeles, CA, United States

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A PROSPECTIVE STUDY OF TRAVELERS' DIARRHEA IN A COHORT OF UNITED STATES MILITARY PERSONNEL ON DEPLOYMENT TO THE MULTINATIONAL FORCE AND OBSERVERS, SINAI, EGYPT

David M. Rockabrand¹, Mark S. Riddle¹, Marshall R. Monteville¹, Robert W. Frenck², Marcy Romine¹, Salwa Fouad¹, John W. Sanders¹

¹U.S. Naval Medical Research Unit No.3, Cairo, Egypt, ²University of California Los Angeles, Los Angeles, CA, United States

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ALTERNATIVE CELLULAR ENERGY BASED THERAPY OF CHILDHOOD DIARRHEA

Rafael R. Izaguirre¹, Miguel R. Guzman¹, Rafael C. Fuentes¹, Carlos E. Mena¹, Emillio Penate¹, **W John Martin²**

¹Benjamin Bloom National Children's Hospital, San Salvador, El Salvador, ²Center for Complex Infectious Diseases, Rosemead, CA, United States

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INTRODUCING ZINC INTO ROUTINE TREATMENT OF ACUTE DIARRHEA: IMPACT ON THE MANAGEMENT OF DIARRHEA IN CHILDREN IN RURAL MALI

Seydou Doumbia¹, Peter Winch², Kate Gilroy², Amy Patterson², Maureen Cunningham³, Zana Daou⁴, Eric Swedberg⁵, Adama Diawara¹, Danaya Kone¹, Robert E. Black²

¹University of Bamako, Faculty of Medicine/Malaria Research and Training Center, Bamako, Mali, ²Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ³Save the Children, Bamako, Mali, ⁴Save the Children, Bougouni, Mali, ⁵Save the Children, Westport, CT, United States

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USE OF AN ELECTRONIC SURVEILLANCE SYSTEM (ALERTA) TO DETECT A DENGUE OUTBREAK AMONG A PERUVIAN NAVY POPULATION IN IQUITOS, PERU

Roger V. Araujo Castillo¹, Cecilia C. Mundaca¹, Mario Ortiz², Manuel Morán³, James G. Olson¹, David Blazes¹

¹Naval Medical Research Center Detachment, Lima, Peru, ²Clinica Naval, Iquitos, Peru, ³Centro Médico Naval, Lima, Peru

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LOCAL TERMINOLOGY FOR MEDICINES USED TO TREAT MALARIA IN BOUGOUNI DISTRICT, MALI: IMPLICATIONS FOR PROGRAMS, EVALUATIONS AND THE INTRODUCTION OF NEW MALARIA TREATMENT POLICIES

Amy E. Patterson¹, Peter J. Winch¹, Kate E. Gilroy¹, Seydou Doumbia²

¹Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ²University of Bamako, Faculty of Medicine/Malaria Research and Training Center, Bamako, Mali

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A TIME SERIES ANALYSIS OF THE SEASONAL PATTERN OF CONSULTATION RATES FOR MALARIA, ACUTE RESPIRATORY INFECTION AND DIARRHEA IN NIONO HEALTH DISTRICT, MALI

Sally Findley¹, Seydou Doumbia², Daniel C. Medina³, Boubacar Guindo⁴, Mahamadou B. Toure⁴, Nafomon Sogoba⁴, Moussa Dembele⁵, Daouda Konate⁶

¹School of Public Health, Columbia University, New York, NY, United States, ²MRTC/Faculty of Medicine, Bamako, Mali, ³College of Physicians and Surgeons, Columbia University, New York, NY, United States, ⁴MRTC/Faculty of Medicine, Bamako, Mali, ⁵Centre de Sante de Ref de Niono, Niono, Mali, ⁶Centre de Sante de Ref de Niono, Niono, Mali

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SELF-EVALUATION OF AN ELECTRONIC DISEASE SURVEILLANCE SYSTEM IN A REMOTE, RESOURCE LIMITED SETTING: ALERTA DISAMAR IN PERU

Carmen C. Mundaca¹, Manuel Morán², Mario Ortiz³, Emilia Saldarriaga², José Quispe², Roger V. Araujo¹, Ernesto Gozzer⁴, David L. Blazes¹

¹Naval Medical Research Center Detachment, Lima, Peru, ²Centro Médico Naval, Lima, Peru, ³Clinica Naval, Iquitos, Peru, ⁴Voxiva SRL, Lima, Peru

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G6PD-DEFICIENCY: IMPLICATIONS IN PUBLIC HEALTH AND DRUG DEVELOPMENT

Colin Ohrt

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

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ANTIBODY RESPONSES AND MALARIA IN PREGNANT WOMEN LIVING IN A HYPOENDEMIC *P. VIVAX* AND *P. FALCIPARUM* TRANSMISSION REGION OF PERU

Falgune K. Parekh¹, Jean N. Hernandez², Kathy Torres³, Kathy Soto³, Moises Sihuinchá⁴, Billie B. Davison⁵, Dionicia Gamboa³, Donald J. Krogstad¹, Alejandro Llanos-Cuentas⁶, OraLee H. Branch⁷

¹Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²Universidad Peruano Cayetano Heredia Instituto de Medicina Tropical, Lima, Peru, ³Universidad Peruana Cayetano Heredia Instituto de Medicina Tropical Alexander von Humboldt, Lima, Peru, ⁴Ministerio de Salud, Direccion de Salud-Loreto, Iquitos, Peru, ⁵Tulane National Primate Research Center, Covington, LA, United States, ⁶Universidad Peruana Cayetano Heredia, IMT-AVH, Lima, Peru, ⁷University of Alabama at Birmingham, Birmingham, AL, United States

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DOTS PROGRAM MONITORING AT THE TUBERCULOSIS UNIT AT BALLABGARH, HARYANA, INDIA: IDENTIFYING TRENDS AND SETTING PRIORITIES

Isolde Krummrich¹, Latha Rajan¹, Madhu Bari²

¹Tulane University, New Orleans, LA, United States, ²All India Institute of Medical Sciences, New Delhi, India

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MARKOV MODEL OF THE PREVALENCE AND ECONOMIC BURDEN OF CHAGAS' DISEASE IN LATIN AMERICA AND THE CARIBBEAN

Leslie S. Wilson¹, Arthur Strosberg²

¹UCSF, San Francisco, CA, United States, ²OneWorld Health Institute, San Francisco, CA, United States

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SYMPTOMS ASSOCIATED WITH *P. FALCIPARUM* AND *P. VIVAX* INFECTION DURING LONGITUDINAL FOLLOW-UP IN A PERUVIAN COMMUNITY WITH LOW MALARIA TRANSMISSION

OraLee H. Branch¹, Jean N. Hernandez², Alejandro Llanos-Cuentas², Moises Sihuinchá³, Carlos E. Vidal³, Eduardo Gotuzzo²

¹University of Alabama at Birmingham, Birmingham, AL, United States, ²Universidad Peruana Cayetano Heredia, Instituto de Medicina Tropical Alexander Von Humboldt, Lima, Peru, ³Ministerio de Salud, Direccion de Salud-Loreto, Iquitos, Peru

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EVALUATION OF LEPTOSPIROSIS BY POLYMERASE CHAIN REACTION (PCR) IN CULTURED SAMPLES AND CULTURE POSITIVE PACKED RED BLOOD CELLS

Kurt E. Schaecher, Ruth Ellis, Duangkamon Siludjai, Anintita Laoboonchai, Mark Fukuda

Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

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GENOTYPIC CHARACTERIZATION OF RICKETTSIA PROWAZEKII CAIRO 3 BY MULTILOCUS SEQUENCING

Hong Ge¹, Min Tong¹, Ju Jiang¹, Gregory A. Dasch², Allen L. Richards¹

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

²*Centers for Disease Control, Atlanta, GA, United States*

Ectoparasite—Borne Disease

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A HIGH THROUGHPUT SCREENING METHOD TO IDENTIFY TICK SALIVARY ANTIGENS ELICITING A CELLULAR IMMUNE RESPONSE IN TICK SENSITIZED HOSTS

Jennifer M. Anderson¹, Nathan J. Miller², David Reynoso¹, Thomas N. Mather², Jesus G. Valenzuela¹

¹*National Institutes of Health, Rockville, MD, United States,*

²*University of Rhode Island, Kingston, RI, United States*

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DENDRITIC CELL IMMUNIZATION USING TICK SALIVARY PROTEINS TO PREVENT TICK TRANSMITTED BORRELIA BURGDORFERI INFECTION

Amy J. Ullmann¹, Elizabeth S. Gabitzsch¹, Erol Fikrig², Nordin S. Zeidner¹

¹*Centers for Disease Control and Prevention, Fort Collins, CO, United States,* ²*Yale School of Medicine, New Haven, CT, United States*

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DEVELOPMENT OF A RAPID HAND-HELD POINT OF CARE ANTIGEN DETECTION ASSAY FOR ORIENTIA TSUTSUGAMUSHI — PRELIMINARY RESULTS

Patrick J. Rozmajzl¹, Steven Francesconi², Wei-Mei Ching¹, Ukkubandage Gunasinghe², Allen L. Richards¹

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

²*AFIP, Washington, DC, United States*

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USE OF GIS TO ASSESS RELATIVE RISK IN DIFFERENT BIOTOPES WITHIN ENDEMIC SCRUB TYPHUS AREAS

James W. Jones

U.S. Army Medical Component-Armed Forces Research Institute of Medical Sciences (USAMC-AFRIMS), United States

Flaviviridae — Dengue

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SENSITIVITY OF DENGUE VIRUS ISOLATION BY C6/36 CELL CULTURE AND MOSQUITO INOCULATION OF NESTED RT-PCR POSITIVE CLINICAL SAMPLES

Ananda Nisalak¹, Richard G. Jarman¹, Siripen Kalayanarooj², Sumitda Narupiti¹, Vipa Thirawuth¹, Naowaybol Nutkamhang¹, Pairote Tararut¹, Panor Srisongkram¹, Mammen P. Mammen¹

¹*Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand,* ²*Queen Sirikit National Institute of Child Health, Bangkok, Thailand*

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MOLECULAR CHARACTERIZATION OF DENGUE VIRUSES CIRCULATING IN THAILAND

Piyawan Chinnawirotpisan¹, Chonticha Klungthong¹, Prinyada Rodpradit¹, Siripen Kalayanarooj², Mammen P. Mammen¹, Chunlin Zhang¹

¹*Department of Virology, U.S. Army Medical Component-Armed Forces Research Institute of Medical Sciences (USAMC-AFRIMS), Bangkok, Thailand,* ²*Queen Sirikit National Institute of Child Health (QSNICH), Bangkok, Thailand*

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IMPROVED SENSITIVITY OF DENGUE VIRUS DETECTION BY REVERSE TRANSCRIPTION-POLYMERASE CHAIN REACTION (RT-PCR) USING WHOLE BLOOD COMPARED TO SERUM OR PLASMA

Chonticha Klungthong¹, Mammen P. Mammen¹, Vipa Thirawuth¹, Sumitda Narupiti¹, Piyawan Chinnawirotpisan¹, Ananda Nisalak¹, Siripen Kalayanarooj², Richard G. Jarman¹

¹*Department of Virology, U.S. Army Medical Component-Armed Forces Research Institute of Medical Sciences (USAMC-AFRIMS), Bangkok, Thailand,* ²*Queen Sirikit National Institute of Child Health (QSNICH), Bangkok, Thailand*

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Chonticha Klungthong¹, Vipa Thirawuth¹, Prinyada Rodpradit¹, Sumitda Narupiti¹, Ananda Nisalak¹, Siripen Kalayanarooj², Richard G. Jarman¹, Mammen P. Mammen¹

¹*Department of Virology, U.S. Army Medical Component-Armed Forces Research Institute of Medical Sciences (USAMC-AFRIMS), Bangkok, Thailand,* ²*Queen Sirikit National Institute of Child Health (QSNICH), Bangkok, Thailand*

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CLIMATIC CHANGES RELATED TO EPIDEMICS OF DENGUE IN TAIWAN, 1987-2002

YiShiuan Li¹, Yung-Ming Chen², Min-Hui Wu¹, Chuin-Shee Shan¹, Chia-Ling Kuo¹, Fu-Chiang Hu¹, Chung-Ming Liu³, Mong-Ming Lu⁴, Chwan-Chuen King¹

¹National Taiwan University, Institute of Epidemiology, Taipei, Taiwan Republic of China, ²National Science and Technology Center for Disaster Reduction, Taipei, Taiwan Republic of China, ³Institute of Atmospheric Science, College of Science, NTU, Global Change Research Center, NTU, Taipei, Taiwan Republic of China, ⁴Central Weather Bureau, Taipei, Taiwan Republic of China

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FACTORS AFFECTING THE DISTRIBUTION OF DENGUE IN PUNTARENAS, COSTA RICA, AND THE APPLICATION OF REMOTE SENSING AND GEOGRAPHICAL INFORMATION SYSTEMS

Adriana Troyo¹, Douglas O. Fuller¹, Mayra E. Solano², Ólger Calderón-Arguedas², John C. Beier¹

¹University of Miami, Miami, FL, United States, ²Universidad de Costa Rica, San José, Costa Rica

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Hema S. Bashyam¹, Tomoko Toyosaki-Maeda¹, Henry A. Stephens², Mammen P. Mammen³, Timothy P. Endy⁴, David W. Vaughn⁴, Siripen Kalayanaroj⁵, Daniel H. Libraty¹, Sharone Green¹, Francis A. Ennis¹, Alan L. Rothman¹

¹University Of Massachusetts Medical Center, Worcester, MA, United States, ²Center for Nephrology, University College London, London, United Kingdom, ³Dept. of Virology, U.S. Army Medical Component-Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁴Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁵Queen Sirikit National Institute of Child Health, Bangkok, Thailand

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EFFECT OF DENV3 INFECTION OF PRIMARY HUMAN DENDRITIC CELLS

Cassandra Lambeth, Karen McKinnon, Jon Serody, Aravinda de Silva

UNC - Chapel Hill, Chapel Hill, NC, United States

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VIROLOGICAL PARAMETERS OF RECENT DENGUE HEMORRHAGIC FEVER OUTBREAK IN SRI LANKA

Wahala M. Wahala¹, N. Kanakarathne², Nandika Perera², Dhammika Seneviratne², G. R. Ranawaka², A. Shahani³, D. Ruberu⁴, Maya B. Gunasekera², Aravinda M. de Silva¹

¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ²Genetech Research Institute, Colombo, Sri Lanka, ³Apollo Hospitals, Colombo, Sri Lanka, ⁴Durdans Hospital, Colombo, Sri Lanka

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Chih-Chun Kan¹, Neal H. Lin², Chuin-Shee Shang², Tsung-Shu Wu², Tzai-Hung Wen³, Min-Hui Wu², Konan Peck⁴, Pei-Fen Lee⁵, I-Chuin Fan⁶, Wu-Hsiung Tsai⁷, Hui-Chu Chen⁷, Pei-Yun Shu⁷, Shu-Hui Tseng⁷, Chwan-Chuen King²

¹Graduate Institute of Life Sciences, National Defense Medical Center, Taipei, Taiwan Republic of China, ²Institute of Epidemiology, College of Public Health, National Taiwan University (NTU), Taipei, Taiwan Republic of China, ³Department of Bioenvironmental Systems Engineering, NTU, Taipei, Taiwan Republic of China, ⁴Institute of Biomedical Science, Academia Sinica, Taipei, Taiwan Republic of China, ⁵Institute of Ecology and Evolutionary Biology, NTU, Taipei, Taiwan Republic of China, ⁶Institute of History and Philology and Geographic Information System Center, Academia Sinica, Taipei, Taiwan Republic of China, ⁷Center for Disease Control of Kaohsiung City Health Department, Kaohsiung, Taiwan Republic of China

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GENETIC VARIATION OF DENGUE VIRUSES CIRCULATING IN THAILAND

Chunlin Zhang, Prinyada Rodpradit, Piyawan Chinnawirotpisan, Chonticha Klungthong, Mammen P. Mammen

US Army Medical Component-Armed Force Research Institute of Medical Sciences, Bangkok, Thailand

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DENGUE VIRUS INDUCES PRODUCTION OF TRANSFORMING GROWTH FACTOR $\beta 1$ — A POTENTIAL MECHANISM FOR IMMUNE REGULATION

Peifang Sun¹, Christina Stuelten², Praveen Arany², Kevin Porter¹, Anita Roberts², Timothy Burgess¹

¹Naval Medical Research Center, Silver Spring, MD, United States, ²National Cancer Institute, National Institutes of Health, Bethesda, MD, United States

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PEPTIDE INHIBITORS OF FLAVIVIRUS INFECTIVITY

Yancey M. Hrobowski¹, Robert F. Garry¹, Scott F. Michael²

¹Tulane University Health Science Center, New Orleans, LA, United States, ²Florida Gulf Coast University, Ft. Myers, FL, United States

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PREVALENCE OF DENGUE-2 VIRUS IN NEARBY CARIBBEAN ISLANDS

Jorge L. Munoz-Jordan, Elizabeth Hunsperger, Mark Beatty, Gary Clark

Centers For Disease Control and Prevention, San Juan, Puerto Rico

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IMMUNOGENICITY STUDIES OF DENGUE- 2 DNA VACCINE CANDIDATES**Teresita Garcia**, Idali Martinez*University of Puerto Rico, Medical Sciences Campus, San Juan, Puerto Rico*

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DEVELOPMENT OF BIOASSAYS TO MEASURE INTERFERON ANTAGONISM OF DENGUE STRAINS**Jorge L. Munoz-Jordan**¹, Xiomara Mercado², Gary G. Clark¹*¹Centers For Disease Control and Prevention, San Juan, Puerto Rico, ²Recinto de Ciencias Medicas, Universidad de Puerto Rico, San Juan, Puerto Rico*

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ADEQUATE PERFORMANCE OF A FAST METHOD FOR DETERMINATION OF ANTI-DENGUE IGM ANTIBODIES**Maria Garcia**, Nancy Merino, Enrique Mamani, Victoria Gutierrez, Tomas Paredes, Miguel Farfan, Miguel Cobos, Cesar Cabezas*National Institutes of Health Peru, Lima, Peru*

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RUBELLA SURVEILLANCE AND SUSPICION OF DENGUE OUTBREAKS: NEED FOR A SYNDROMIC APPROACH**Maximo Espinoza**, Edwin Cabezudo, Ana Cecilia Ortiz, Maria Garcia, Cesar Cabezas*National Institutes of Health Peru, Lima, Peru*

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KNOWLEDGE, ATTITUDE AND PRACTICE (KAP) ABOUT DENGUE IN PEOPLE GOING TO THE OUTPATIENT DEPARTMENT IN THE HEALTH CENTRE TAHUAN-TINSUYO BAJO, INDEPENDENCIA, LIMA, PERU**Victoria Gutierrez**, Gissella Noroña, Nancy Merino, Lely Solari, Cesar Cabezas*National Institutes of Health Peru, Lima, Peru*

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ROLES OF CHEMOKINE AND CHEMOKINE RECEPTORS IN PATIENTS OF DENGUE HEMORRHAGIC FEVER IN TAIWAN**Chwan-Chuen King**¹, Cho-Kuang Shen¹, Hui-Ting Wang¹, Fung Liao², Day-Yu Chao¹, Betty Wu-Hsieh³*¹Institute of Epidemiology, College of Public Health, National Taiwan University, Taipei, Taiwan Republic of China, ²Institute of Biomed. Sci., Academia Sinica, Taipei, Taiwan Republic of China, ³Institute of Immunology, College of Medicine, National Taiwan University, Taipei, Taiwan Republic of China*

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INITIAL RESULTS OF THE DEVELOPMENT OF A SWINE INTERMEDIATE ANIMAL MODEL FOR DENGUE INFECTION**Jaimie Robinson**, Jeffrey A. Tjaden, Timothy H. Burgess, Kevin R. Porter, Jorge Pardo, Hemavathy Subramanian, Tadeusz Kochel*Naval Medical Research Center, Silver Spring, MD, United States*

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APPLICATION OF A CLINICAL CASE DEFINITION FOR DENGUE FEVER IN PATILLAS, PUERTO RICO**Mark E. Beatty**¹, Jorge Munoz¹, Miriam Rodriguez², Gary Clark¹, Aurimar Ayala¹, Centro de Servicios Primarios de Salud Research Group²*¹Centers for Disease Control and Prevention, San Juan, PR, United States, ²Centro de Servicios Primarios de Salud, Patillas, PR, United States***Flaviviridae – Other**

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PERSISTENT ST. LOUIS ENCEPHALITIS VIRUS INFECTION IN THE GOLDEN HAMSTER (*MESOCRICETUS AURATUS*)**Marina Siirin**, Hilda Guzman, Hao Lei, Kanya C. Long, Amelia Travassos da Rosa, Shu-Yuan Xiao, Robert B. Tesh
University of Texas Medical Branch, Galveston, TX, United States

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¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²Centers for Disease Control and Prevention, Fort Collins, CO, United States, ³Hospital Militar, Puyo, Ecuador, ⁴Hospital Vozandes, Shell, Ecuador, ⁵Hospital Naval, Guayaquil, Ecuador, ⁶U.S. Naval Medical Research Center Detachment, APO AA, United States

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SERO- PREVALENCE OF JAPANESE ENCEPHALITIS VIRUS IN PIGS, DUCKS AND HORSES IN NEPAL

Ganesh Raj Pant

Central Veterinary Laboratory, Kathmandu, Nepal

Flaviviridae – West Nile

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Darcy L. Medica

Pennsylvania State University, Schuylkill Haven, PA, United States

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Ashley N. Brown¹, Kim A. Kent², Melissa J. Behr², Kristen A. Bernard²

¹University at Albany, Department of Biomedical Sciences, Albany, NY, United States, ²Wadsworth Center, New York State Department of Health, Albany, NY, United States

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WEST NILE VIRUS IN CANADA: WHAT'S THE LATEST BUZZ?

PA Buck¹, R. Meyers², IK Barker³, M. Drebot⁴, R. Lindsay⁵, P. Sockett¹

¹Centre for Infectious Disease Prevention and Control, Infectious Disease and Emergency Preparedness Branch, Public Health Agency of Canada, Ottawa, ON, Canada, ²Centre for Infectious Disease Prevention and Control, Infectious Disease and Emergency Preparedness Branch, Public Health Agency of Canada, Guelph, ON, Canada, ³Canadian Cooperative Wildlife Health Centre, Department of Pathobiology, Ontario Veterinary College, University of Guelph, Guelph, ON, Canada, ⁴National Microbiology Laboratory, Infectious Disease and Emergency Preparedness Branch, Public Health Agency of Canada, Winnipeg, MB, Canada, ⁵National Microbiology Laboratory, Public Health Agency of Canada, Winnipeg, MB, Canada

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Bradley S. Schneider, Lynn Soong, Yvette A. Girard, Stephen Higgs

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

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Sharone Green¹, Liyan Yang¹, Laura Fenton-Noriega¹, Ken Maeda², Dale Greiner¹, Thomas P. Monath³, Kristen A. Bernard⁴, Francis A. Ennis¹

¹University of Massachusetts Medical School, Worcester, MA, United States, ²Yamaguchi University, Yamaguchi, Japan, ³Acambis, Cambridge, MA, United States, ⁴Wadsworth Center, Albany, NY, United States

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Steven A. Pergam¹, Robert A. Nofchissey¹, Sara L. Arguello¹, Charles M. Sewell², Paul Ettestad², Leonor Echevarria¹, Larry E. Davis³, Diane E. Goade¹

¹University of New Mexico, Albuquerque, NM, United States, ²New Mexico State Department of Health, Santa Fe, NM, United States, ³Veteran's Affairs Hospital, Albuquerque, NM, United States

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ANALYSIS OF IGM AND IGG ANTIBODY INDEX VALUES TO WEST NILE VIRUS IN A MULTI-VARIANT SAMPLE SET FROM NEW MEXICO WNV SURVIVORS

Robert A. Nofchissey¹, Leonor Echevarria¹, Steveperon A. Young², Mack Sewell³, Steve Pergam¹, Larry Davis⁴, Diane E. Goade¹

¹University of New Mexico HSC, Albuquerque, NM, United States, ²Tricore Reference Laboratories, Albuquerque, NM, United States, ³New Mexico Department of Health, Santa Fe, NM, United States, ⁴Veterans Administrative Hospital, Albuquerque, NM, United States

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NEUROPATHOGENESIS OF A WEST NILE VIRUS INFECTION IN MICE

Elizabeth A. Hunsperger¹, John T. Roehrig²

¹Centers for Disease Control and Prevention, San Juan, PR, United States, ²Centers for Disease Control and Prevention, Fort Collins, CO, United States

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Lisa A. Patrican¹, Amy L. Glaser², Anne B. Clark³, Kevin J. McGowan², Rebecca Heiss³, Joanna Murray³, James Montagna³, Douglas A. Robinson³, Jay McGowan²

¹New York State Department of Health, Ithaca, NY, United States, ²Cornell University, Ithaca, NY, United States, ³Binghamton University, Binghamton, NY, United States

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¹Washington University School of Medicine, St. Louis, MO, United States, ²University of Indonesia, Jakarta, Indonesia

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Jonathan King¹, Aso Maga², Molisamoa Pa'au², Joseph Roth², Troy Curry³, Dana Crenshaw¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²American Samoa Department of Health, Pago Pago, Samoa, ³American Samoa Department of Commerce, Pago Pago, Samoa

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¹National Institute for Medical Research, Tanga, United Republic of Tanzania, ²Centre for Medical Parasitology, Copenhagen University Hospital, University of Copenhagen, Copenhagen, Denmark

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¹University of Alabama at Birmingham, Birmingham, AL, United States, ²Onchocerciasis Control Programme in West Africa,, Ouagadougou, Burkina Faso, ³UNICEF/UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases, WHO, Geneva, Switzerland

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Charles D. Mackenzie¹, Mwele N. Malecela², Esther Charles³, Conrad Kabali³, Wilfred Lazarus³, Christine Makene³, Upendo Wingira³

¹Filarial Diseases Support Unit, Michigan State University, East Lansing, MI, United States, ²LF Program Central Office, National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ³LF Program Central Office, National Institute for Medical Research,, Dar es Salaam, United Republic of Tanzania

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Mwele Malecela¹, Charles D. Mackenzie²

¹LF Program Central Office, National Institute for Medical Research,, Dar es Salaam, United Republic of Tanzania, ²Filarial Diseases Support Unit, Michigan State University, East Lansing, MI, United States

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Ettie M. Lipner¹, Gary J. Weil², Noumouza Dembele³, S. Suliman³, William Soumbe Alley³, Laurent Toe³, Boayke Boatin³, Thomas B. Nutman¹

¹National Institutes of Health/National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ²Washington University School of Medicine, St. Louis, MO, United States, ³Onchocerciasis Control Program, Ouagadougou, Burkina Faso

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University of Mali School of Medicine, Pharmacy and Dentistry, Bamako, Mali

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Christine R. DeLong, Yae-Jean Kim, Thomas B. Nutman
National Institutes of Health, Bethesda, MD, United States
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Manish Ramesh, Thiruchandurai V. Rajan
Uconn Health Center, Farmington, CT, United States
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Xinping Zhu¹, Jing Yang¹, Yaping Yang¹, Li Ding¹, Song Huang¹, Lei Zhou¹, Boireau Pascal², Bin Zhan³, Peter Hotez³
¹Capital University of Medical Sciences, Beijing, China, ²INRA AFSSA ENVA UPVM, Maisons Alfort, France, ³George Washington University, Washington, DC, United States

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Ruel Michelin¹, Frederick Oladeinde¹, Arthur Williams¹, Laafayette Frederick², Anthony Kinyua¹, Roosevelt Shaw¹, Kathleen Lobban³, Wolfgang Leitner⁴, Juarine Stewart¹
¹Morgan State University, Baltimore, MD, United States, ²Howard University, Washington, DC, United States, ³University of the West Indies, Kingston, Jamaica, ⁴NCI/National Institutes of Health, Bethesda, MD, United States

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Harry D. Dawson, Gloria Solano-Aguilar, Ethiopia Beshah, Eudora Jones, Joseph F. Urban
ARS/USDA, Beltsville, MD, United States
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Wayne M. Forbes¹, Ralph D. Robinson², Paul B. Reese²
¹Slippery Rock University of Pennsylvania, Slippery Rock, PA, United States, ²University of the West Indies (Mona Campus), Kingston, Jamaica

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Andres G. Lescano¹, Hector H. Garcia¹, Robert H. Gilman², M. Claudia Guezala³, Victor C. Tsang⁴, Silvia Rodriguez⁵, Lawrence H. Moulton², Manuel V. Villaran⁵, Silvia M. Montano⁶, Armando E. Gonzalez³
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Instituto de Ciencias Neurológicas, Lima, Peru, ⁶US Naval Medical Research Center Detachment (NMRCD), Lima, Peru

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Igor Kazanets
International Organization for Migration, Nairobi, Kenya

775**INTESTINAL MICROSPORIDIOSIS IN HUMAN IMMUNO-DEFICIENCY VIRUS-INFECTED PATIENTS FROM NORTHWESTERN VENEZUELA**

Leonor Chacin-Bonilla¹, Patricia A. Panunzio², Francisca Monsalve-Castillo³, Irene Parra-Cepeda², Rodrigo Martinez⁴
¹Postgrado de Inmunología, Maracaibo, Venezuela, ²Catedra de Salud Pública, Facultad de Medicina, Universidad del Zulia, Maracaibo, Venezuela, ³Catedra de Virología, Facultad de Medicina, Universidad del Zulia, Maracaibo, Venezuela, ⁴Unidad Regional de Inmunología, Hospital General del Sur, Maracaibo, Venezuela

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THE RISK OF HIV AND HSV-2 ACQUISITION AMONG MEN WHO HAVE SEX ONLY WITH MEN IN URBAN, COASTAL PERU

Kelika A. Konda¹, Jeffrey D. Klausner², Andres G. Lescano³, Segundo Leon⁴, Rosa Castillo³, Nilda Gadea³, Franca R. Jones⁵, Thomas J. Coates¹, Carlos F. Caceres⁴

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

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HIV/AIDS IN MISSISSIPPI AND NIGERIA

Alex D. Acholonu

Alcorn State University, Alcorn State, MS, United States

Kinetoplastida – Diagnosis and Treatment

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CATION PUMPS AND CHANNELS ARE POTENTIAL ANTI-TRYPANOSOMAL DRUG TARGETS

Zuzanna Kucerova, Ikovwaiza Irune, Henry B. Armah, **Jonathan K. Stiles**

Morehouse School of Medicine, Atlanta, GA, United States

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SANDWICH ELISA FOR THE DETECTION OF LEISHMANIA PARASITES IN CUTANEOUS LEISHMANIASIS

Yvonne Y. Stevens¹, Masahiko Okamoto¹, Yasuzuki Goto², Yoshitsugu Matsumoto³, Steven G. Reed², Syamal Raychaudhuri¹, **Raymond L. Houghton**¹

¹InBios International Inc, Seattle, WA, United States, ²Infectious Disease Research Institute, Seattle, WA, United States, ³University of Tokyo, Tokyo, Japan

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LARVAL BIOTHERAPY (LB) ALTERNATIVE TREATMENT TO CUTÁNEA LEISHMANIASIS

Jazzmin C. Arrivillaga¹, Davis Rodriguez², Ronald Sherman³, Milagro Oviedo⁴, M Dora Feliciangeli⁵

¹Universidad Simon Bolivar, Caracas, Venezuela, ²Universidad de carabobo, Maracay, Venezuela, ³California University, California, CA, United States, ⁴Universidad de los Andes, Trujillo, Venezuela, ⁵Universidad de Carabobo, Maracay, Venezuela

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CHRONIC RODENT LEISHMANIASIS (VL, CL, MCL, DCL): CELL RECEPTORS AND PATHOLOGY

Joan E. Jackson¹, Maurice M. Iwu², Christopher O. Okunji², Eleanor Kollmar³, Edgar D. Rowton¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Bioresources Development and Conservation Programme, Silver Spring, MD, United States, ³Village Animal Hospital, Millbrook, NY, United States

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Kinetoplastida – Epidemiology

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VARIATIONS IN PREVALENCE OF INFECTION BY TRYPANOSOMA CRUZI IN SYLVATIC MAMMALS OF RURAL NORTHWESTERN ARGENTINA

Leonardo A. Ceballos¹, **Gonzalo M. Vazquez-Prokopec**¹, Victoria M. Cardinal¹, Marcela M. Orozco¹, Roberto Cortinas², Uriel Kitron², **Ricardo E. Gürtler**¹

¹Laboratorio de Eco-Epidemiología, Universidad de Buenos Aires, Buenos Aires, Argentina, ²University of Illinois at Urbana Champaign, Urbana, IL, United States

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EVALUATION OF THREE METHODS TO ISOLATE TRYPANOSOMA CRUZI FROM OPOSSUMS IN SYLVATIC AND PERIDOMESTIC ENVIRONMENTS IN GUATEMALA

Alejandra Estevez, Luis Rios, Carmen L. Contreras, Laura Grajeda, Alejandra Krische, Pedro Peralta, Pamela Pennington, Celia Cordon-Rosales

Universidad del Valle de Guatemala, Guatemala, Guatemala

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T CELL ANTIGENS OF THE PARASITIC PROTOZOAN LEISHMANIA CHAGASI

Daniella R. Martins¹, Selma M. Jeronimo¹, Mary E. Wilson²

¹Universidade Federal do Rio Grande do Norte, Natal/RN, Brazil, ²University of Iowa, Iowa City, IA, United States

(ACMCIP Abstract)

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THE MAJOR SURFACE PROTEASE (MSP OR GP63) IN AMASTIGOTE LIFE STAGE OF LEISHMANIA CHAGASI

Chia-Hung Christine Hsiao¹, Chaoqun Yao², John E. Donelson¹, Mary E. Wilson¹

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

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MOLECULAR TYPING OF *TRYPANOSOMA CRUZI* STRAINS INFECTING *TRIATOMA INFESTANS*, DOMESTIC DOGS AND CATS FROM A RURAL AREA OF NORTHWESTERN ARGENTINA

Marta V. Cardinal¹, Marta A. Lauricella², Paula L. Marcet¹, Mariano J. Levin³, Uriel Kitron⁴, Ricardo E. Gürtler¹, Alejandro G. Schijman³

¹Laboratorio de Eco-Epidemiología, Universidad de Buenos Aires, Buenos Aires, Argentina, ²Instituto Nacional de Parasitología "Dr. Mario Fatała Chabén"-ANLIS, Buenos Aires, Argentina, ³Laboratorio de Biología Molecular de la Enfermedad de Chagas; Instituto de Investigaciones en Ingeniería Genética y Biología Molecular (INGEBI-CONICET), Buenos Aires, Argentina, ⁴College of Veterinary Medicine, University of Illinois at Urbana-Champaign, Urbana, IL, United States

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EXACERBATED T CELL RESPONSE AND PATHOGENESIS OF CUTANEOUS AND MUCOSAL LEISHMANIASIS

Lucas P. Carvalho, Sara Passos, Olívia Bacellar, Luis Henrique Guimarães, Edgar Marcelino Carvalho, Amélia Ribeiro Jesus

Universidade Federal da Bahia, Salvador, Brazil

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IDENTIFICATION OF THROMBOXANE A₂ LIKE MOLECULE FROM *TRYPANOSOMA CRUZI*

Shankar Mukherjee, Anthony Ashton, Huan Huang, Murray Wittner, Louis M. Weiss, Herbert B. Tanowitz

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

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PROTOLLIN-BASED A2 VACCINE PROVIDES PROTECTION AGAINST *LEISHMANIA DONOVANI* IN MICE

Momar Ndao¹, Milli Nath-Chowdhury¹, Veronique Roussy¹, Sonya Cyr², Gina Biscotti¹, David Burt², Greg Matlashewski³, Brian J. Ward¹

¹National Reference Centre for Parasitology, Montreal, QC, Canada,

²ID Biomedical Corporation of Quebec, Montreal, QC, Canada,

³Department of Microbiology and Immunology, McGill University, Montreal, QC, Canada

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MODULATION OF DENDRITIC CELL MAPK AND NF- κ B EXPRESSION BY *LEISHMANIA AMAZONENSIS* PREVENTS PROPER DENDRITIC CELL MATURATION

Mousumi Ghosh, Paola M. Boggiatto, Fei Jie, David Wilson, Douglas Jones, Christine Petersen

Iowa State University, Ames, IA, United States

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Malaria – Biology and Pathogenesis

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STUDIES OF THE AGE-DEPENDENT PREVALENCE OF THE SWAIN-LANGLEY AND MCCOY BLOOD GROUP POLYMORPHISMS OF COMPLEMENT RECEPTOR 1 IN WESTERN KENYA

Bernard Guyah¹, Vandana Thathy², Alloyce Orago¹, Walter Otieno², José A. Stoute³

¹Kenyatta University, Nairobi, Kenya, ²US Army Medical Research Unit and the Kenya Medical Research Institute, Nairobi, Kenya,

³Walter Reed Army Institute of Research, Silver Spring, MD, United States

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INHIBITION OF PGE2 BY ANTIPYRETICS AND EXPERIMENTAL COMPOUNDS PROMOTES OVER-PRODUCTION OF TNF- α IN HEMAZOIN-TREATED HUMAN MONONUCLEAR CELLS

Gregory C. Davenport, Christopher C. Keller, Gordon A. Awandare, **Douglas J. Perkins**

University of Pittsburgh, Pittsburgh, PA, United States

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EXPRESSION OF ERYTHROCYTE COMPLEMENT REGULATORY PROTEINS IN INDIVIDUALS WITH SICKLE CELL TRAIT AND NORMAL HEMOGLOBIN IN A MALARIA ENDEMIC AREA OF WESTERN KENYA

Walter O. Otieno¹, Benson Estambale², Michael Odera³, Joash Aluoch², José A. Stoute⁴

¹US Army Medical Research Unit-Kenya, the Kenya Medical Research Institute, and the University of Nairobi College of Health Sciences, Nairobi, Kenya, ²University of Nairobi College of Health Sciences, Nairobi, Kenya, ³US Army Medical Research Unit-Kenya and the Kenya Medical Research Institute, Nairobi, Kenya, ⁴Walter Reed Army Institute of Research, Silver Spring, MD, United States

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CLASS AND SUBCLASS ANTIBODY ANALYSIS OF CIRCULATING IMMUNE COMPLEXES IN CHILDREN WITH SEVERE *PLASMODIUM FALCIPARUM* MALARIA

Erick Mibei¹, Alloyce Orago¹, José A. Stoute²

¹Kenyatta University, Nairobi, Kenya, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

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TEMPORAL AND SPATIAL PROFILE OF ACTIVATED CASPASE-3 IN EXPERIMENTAL CEREBRAL MALARIA

Peter Lackner¹, Christoph Burger¹, Ronny Beer¹, Kristian Pfaller¹, Volker Heussler², Raimund Helbok¹, Egbert Tannich², Erich Schmutzhard¹

¹Innsbruck Medical University, Innsbruck, Austria, ²Bernhard-Nocht-Institute for Tropical Medicine, Hamburg, Germany

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CHONDROITIN SULFATE PROTEOGLYCANS OF RAT PLACENTA AND BINDING OF MALARIA PARASITE INFECTED ERYTHROCYTES**Rajeshwara Achur**¹, Sean T. Agbor-Enoh², D. Channe Gowda¹¹Department of Biochemistry and Molecular Biology, Pennsylvania State University College of Medicine, Hershey, PA, United States,²Department of Biochemistry and Molecular Biology, Georgetown University Medical Center, Washington, DC, United States

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PREPARATION OF THE PHOTOACTIVE DERIVATIVE OF A C4S OLIGOSACCHARIDE, AND ITS USEFULNESS FOR THE IDENTIFICATION OF *PLASMODIUM FALCIPARUM* ADHESIVE PROTEIN(S) THAT MEDIATE THE BINDING OF INFECTED ERYTHROCYTES IN THE PLACENTA**Prakasha Gowda A. S.**, Subbarao V. Madhunapantula, Rajeshwara N. Achur, Veer P. Bhavanandan, D. Channe Gowda

Department of Biochemistry and Molecular Biology, Pennsylvania State University College of Medicine, Hershey, PA, United States

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CHANGES IN GENOTYPE FREQUENCIES AND DOMINANT GENOTYPE COPY NUMBER ARE ASSOCIATED WITH DEVELOPMENT OF SYMPTOMATIC MALARIA IN THE VILLAGE OF MISSIRA, MALI**James M. Colborn**¹, Ousmane A. Koita², Mamadou W. Bagayoko², Donald J. Krogstad¹¹Tulane University, New Orleans, LA, United States, ²University of Bamako, Bamako, Mali

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PLASMODIUM FALCIPARUM* CYTOADHERENCE TO HUMAN PLACENTA: STUDIES ON THE HOST RECEPTORS*Arivalagan Muthusamy**, Prakasha Gowda A. S., Rajeshwara N. Achur, D. Channe Gowda

Department of Biochemistry and Molecular Biology, Pennsylvania State University College of Medicine, Hershey, PA, United States

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SERUM LEVELS OF TNF-ALPHA, IL-10, MIF, IL-4 AND GPI ANTIBODIES IN GHANAIAN CHILDREN WITH SEVERE MALARIA**Ben A. Gyan**¹, Daniel Dodoo¹, Abraham Oduro², Bill Rogers³, Kwadwo Koram¹, Patrick Ansa², Frank Atuguba², Channe Gowda⁴, Bartholomew Akanmori¹, Francis Nkrumah¹¹Noguchi Memorial Institute for Medical Research, Legon, Ghana,²Navrongo Health Research Centre, Navrongo, Ghana, ³Naval Medical Research Unit #3, Cairo, Egypt, ⁴Pennsylvania State University Medical School, Philadelphia, PA, United States

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A NATURAL MALARIAL HOST-PARASITE RELATIONSHIP HAS ADVANTAGES OVER HOST-ADAPTED MOUSE MODELS OF *FALCIPARUM* MALARIA**April Paulman**, Milton M. McAllister

University of Illinois, Urbana, IL, United States

Malaria – Chemotherapy

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EFFICACY AND TOLERANCE OF AMODIAQUINE PLUS SULFADOXINE-PYRIMETHAMINE IN THE TREATMENT OF UNCOMPLICATED *P. FALCIPARUM* MALARIA IN GOUYE KOULY, A SENEGALESE VILLAGE WITH SEASONAL TRANSMISSION**Laurence Marrama**¹, Ronan Jambou¹, Fatoumata Diène Sarr¹, Richard Paul¹, Idrissa Talla², Delphine Aldebert¹, Moussa Dieng Sarr³, Ibrahima Dia¹, Adama Tall¹, Philippe Mauclère¹¹IPD, Dakar, Senegal, ²Ministère de la Santé, Thiès, Senegal,³Ministère de la Santé, Dakar, Senegal

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MEFLOQUINE INDUCES PROPRIOCEPTIVE MOTOR SYSTEM DAMAGE IN RATS**Kevin R. Cannard**, Richard Bauman, Miriam Cabezas, Diana Caridha, Fu Du, Rosario Gomez-Lobo, Michael Park, Geoffrey Dow

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

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MEFLOQUINE INDUCES DOSE-RELATED NEUROLOGICAL EFFECTS IN RATS**Geoffrey S. Dow**¹, Richard Bauman¹, Miriam Cabezas¹, Diana Caridha¹, Fu Du², Rosario Gomez-Lobo¹, Michael Park¹, Kirsten Smith¹, Kevin Cannard¹¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²FD Neurotechnologies, Baltimore, MD, United States

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EVALUATION OF DIHYDROARTEMISININ-PIPERAQUINE DRUG COMBINATIONS *IN VITRO*Christopher D. Lowe, **Lucia Gerena**, Dennis E. Kyle

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

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COMMUNITY MANAGEMENT OF UNCOMPLICATED MALARIA USING RAPID DIAGNOSTIC TEST AND ARTEMISIN COMBINATIONS THERAPIES IN SÉNÉGAL, (WEST AFRICA)**Jean Louis A. Ndiaye**, Paulette S. Ndiaye, Babacar Faye, Daouda Ndiaye, Yemou Dieng, Oumar Faye, Oumar Ndir, Oumar Gaye

Service de Parasitologie, Dakar, Senegal

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ASSESSMENT OF HEMOGLOBIN DEGRADATION BY MALARIA PARASITES USING MALDI-TOF MASS SPECTROMETRY

Tunika Okatcha, Donald J. Krogstad, Simon J. Hocart
Tulane University Health Sciences Ctr, New Orleans, LA, United States

Malaria – Drug Development

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IDENTIFICATION OF THIOPHENE SULFONAMIDES AS SPECIFIC INHIBITORS OF PLASMODIAL CYCLIN DEPENDENT PROTEIN KINASES

Richard A. Denuff¹, Edison A. Cortes¹, April K. Kathcart¹, Lucia Gerena¹, Donald P. Huddler¹, Apurba K. Bhattacharjee¹, Jeanne A. Geyer¹, Sean T. Prigge², Norman C. Waters¹

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

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UNIQUE FEATURES OF ACRIDONE DERIVATIVES AS QUINOLINE-RESISTANCE REVERSAL AGENTS AGAINST PLASMODIUM FALCIPARUM

Jane X. Kelly¹, Roland Cooper², Robert Johnson¹, Aaron Janowsky¹, Martin Smilkstein¹, Rolf Winter¹, Mike Riscoe¹

¹Portland VA Medical Center, Portland, OR, United States, ²Department of Biological Sciences, Old Dominion University, Norfolk, VA, United States

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ANTIMALARIAL 4-(1H)-PYRIDONES DEPOLARIZE THE MITOCHONDRIAL MEMBRANE AND INHIBIT OXYGEN CONSUMPTION IN PLASMODIUM YOELII

Alfonso Mendoza¹, Maria Gomez-Lorenzo¹, Maria Martinez-Hoyos¹, Angeles Talavante¹, Federico Gomez de las Heras¹, David Pompliano², Akhil B. Vaidya³, Jose F. Garcia-Bustos¹

¹GlaxoSmithKline, Tres Cantos, Spain, ²GlaxoSmithKline, Colleville, PA, United States, ³Center of Molecular Parasitology, Philadelphia, PA, United States

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PRECLINICAL DRUG METABOLISM AND PHARMACOKINETIC EVALUATION OF GW844520, A NOVEL ANTI-MALARIAL MITOCHONDRIAL ELECTRON TRANSPORT INHIBITOR

Hong Xiang¹, Jeanelle McSurdy-Freed¹, Ganesamoorthy Subbanagounder¹, Erin Hugger¹, Ramesh Bambal¹, Chao Han¹, Santiago Ferrer², Domingo Gargallo², Charles B. Davis¹

¹GlaxoSmithKline Pharmaceuticals, Collegeville, PA, United States, ²GlaxoSmithKline Pharmaceuticals, DDW, Tres Cantos, Spain

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PRE-CLINICAL DEVELOPMENT OF JPC-2056-I, A THIRD GENERATION ANTIFOLATE

Guy A. Schiehsler¹, Hong-Ming Shieh¹, Isabelle K. Nevchas¹, Jacek Terpinski¹, Arba L. Ager², Donald R. Skillman³, Wil K. Milhous³, Dennis E. Kyle³, Michael D. Edstein⁴, Karl H. Riechmann⁴, Carol H. Sibley⁵, Craig J. Canfield⁶, Laura R. Jacobus¹, David P. Jacobus¹

¹Jacobus Pharmaceutical Co., Inc., Princeton, NJ, United States,

²University of Miami School of Medicine, Miami, FL, United States,

³Walter Reed Army Institute of Research, Silver Spring, MD, United States,

⁴Australian Army Malaria Institute, Queensland, Australia,

⁵University of Washington, Seattle, WA, United States,

⁶Pharmaceutical Systems, Inc., Talent, OR, United States

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ANTIMALARIAL ACTIVITY OF 2,4-DIMETHOXY-4'-BUTOXYCHALCONE AND ITS METABOLITES

Clare E. Gutteridge¹, Sean M. Curtis¹, Daniel A. Nichols², Todd Shearer²

¹United States Naval Academy, Annapolis, MD, United States,

²Walter Reed Army Institute of Research, Silver Spring, MD, United States

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DEVELOPMENTS REGARDING THE MANZAMINES, A PROMISING NEW CLASS OF ANTIMALARIAL AGENT

Noer Kasanah¹, Babu L. Tekwani², Larry Walker², Russell T. Hill³, Mark T. Hamann¹

¹Dept. of Pharmacognosy, School of Pharmacy, The University of Mississippi, University, MS, United States, ²National Center for Natural Product Research, The University of Mississippi, University, MS, United States, ³Center of Marine Biotechnology, University of Maryland Biotechnology Institute, Baltimore, MD, United States

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THE PFCRT PROTEIN HAS A DIRECT ROLE IN THE ACTIVITY OF QUINOLINE-RESISTANCE REVERSAL AGENTS AGAINST PLASMODIUM FALCIPARUM

Kristin D. Lane¹, Jane Xu Kelly², Martin Smilkstein², Michael Riscoe², Roland A. Cooper¹

¹Old Dominion University, Norfolk, VA, United States, ²Portland Veterans Affairs Medical Center, Portland, OR, United States (ACMCIP Abstract)

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DETERMINING DRUG PARTNERS FOR THE NOVEL ANTIMALARIAL COMPOUND, DB75

Anne Purfield, Jesse Kwiek, Richard R. Tidwell, Steven R. Meshnick

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

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SYNTHESIS, BIOLOGICAL ACTIVITY, AND X-RAY CRYSTAL STRUCTURAL ANALYSIS OF DIARYL ETHER INHIBITORS OF MALARIAL ENOYL ACYL CARRIER PROTEIN REDUCTASE

Joel S. Freundlich¹, Hong-Ming Shieh¹, Dimitri Sarantakis¹, John Anderson¹, Isabelle K. Nevchas¹, Jacek Terpinski¹, Laura R. Jacobus¹, Guy A. Schiehsler¹, Arba L. Ager², Min Yu³, Luchezar Karagyozyov³, Edinson Lucumi⁴, Mack Kuo⁴, William R. Jacobs⁵, David A. Fidock³, James C. Sacchettini⁴, David P. Jacobus¹

¹Jacobus Pharmaceutical Co., Inc., Princeton, NJ, United States, ²University of Miami School of Medicine, Miami, FL, United States, ³Albert Einstein College of Medicine of Yeshiva University, Bronx, NY, United States, ⁴Texas A&M University, College Station, TX, United States, ⁵Howard Hughes Medical Institute, Albert Einstein College of Medicine, Bronx, NY, United States

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DEVELOPMENT OF STEREOSELECTIVE LARIAM ANALOGS WOULD HAVE NO ADVANTAGE OVER LARIAM AGAINST EMERGING RESISTANCE IN WEST AFRICA

Lucia Gerena¹, Geoffrey S. Dow¹, William Y. Ellis¹, Diana Caridha¹, Tiffany N. Heady¹, Phillip E. Coyne², Alan J. Magill¹, Dennis E. Kyle¹, Wilbur K. Milhous¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²National Institutes of Allergy and Infectious Disease, Bethesda, MD, United States

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BIOTRANSFORMATION OF PRIMAQUINE AND NPC1161 TO CARBOXYMETABOLITES: ROLE OF SEMICARBAZIDE SENSITIVE AMINE OXIDASE

Babu L. Tekwani, Lalit M. Tripathi, Shabana I. Khan, Bharathi Avula, Ikhlas A. Khan, Mahmoud ElSohly, Dhammika Nanayakkara, Larry A. Walker

National Center for Natural Products Research, School of Pharmacy University of Mississippi, University, MS, United States

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1,3-DIARYL UREAS AND SURROGATES AS INHIBITORS OF PLASMODIUM FALCIPARUM ENOYL ACP REDUCTASE AND POTENTIAL ANTIMALARIAL THERAPEUTICS

Guy A. Schiehsler¹, Hong-Ming Shieh¹, Joel Freundlich¹, Dimitri Sarantakis¹, John Anderson¹, Isabelle K. Nevchas¹, Jacek Terpinski¹, Laura R. Jacobus¹, Min Yu², Luchezar Karagyozyov², Edinson Lucumi³, Mack Kuo³, Arba L. Ager⁴, William R. Jacobs⁵, David A. Fidock², James C. Sacchettini³, David P. Jacobus¹

¹Jacobus Pharmaceutical Co., Inc., Princeton, NJ, United States, ²Albert Einstein College of Medicine of Yeshiva University, Bronx, NY, United States, ³Texas A&M University, College Station, TX, United States, ⁴University of Miami School of Medicine, Miami, FL, United States, ⁵Howard Hughes Medical Institute, Albert Einstein College of Medicine, Bronx, NY, United States

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INHIBITION OF HEMOZOIN DEPOSITION *IN VITRO* AS A SCREEN FOR THE ANTIPARASITE ACTIVITY OF INVESTIGATIONAL AMINOQUINOLINES

Xin Li¹, Huayin Liu¹, Haiyan Deng¹, Renu Tripathy², Babu L. Tekwani³, Frances M. Krogstad¹, Simon J. Hocart¹, Donald J. Krogstad¹

¹Tulane University Health Sciences Ctr, New Orleans, LA, United States, ²Johns Hopkins University, Baltimore, MD, United States, ³University of Mississippi, University, MS, United States

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ANTIMALARIAL ACTIVITY OF 4(1H)-QUINOLONES

Dennis E. Kyle¹, Lucia Gerena¹, Kevin Pitzer¹, Montip Gettyacamin²

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²AFRIMS, Bangkok, Thailand

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'CAPTURE' AND 'RELEASE' SOLID PHASE SYNTHESIS OF RADIOLABELED AMINOQUINOLINES TERMINAL NUCLEOPHILIC SUBSTITUTION WITH RADIOLABELED SECONDARY AMINES

Huayin Liu, Haiyan Deng, Simon J. Hocart, Donald J. Krogstad

Tulane University, New Orleans, LA, United States

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INHIBITION OF FATTY ACID BIOSYNTHESIS IN PLASMODIUM FALCIPARUM

Maroya Spalding¹, Jeff Z. Lu¹, Patricia Lee², Norman Waters², Sean Prigge¹

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

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MALARIA ATTACK RATE DETERMINATION AND ANTI-MALARIAL PROPHYLAXIS PHASE II-III CLINICAL TRIAL FEASIBILITY AT AN INSTITUTE OF HIGHER EDUCATION IN WESTERN KENYA

Shon A. Remich, Stephen Ntomburi, Emily Otieno, Bernhards Ogutu, Mark Polhemus, Colin Ohrt

United States Army Medical Research Unit - Kenya, APO, AE, United States

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NOVEL POTENT ANTIMALARIAL AGENTS: *IN VITRO* AND *IN VIVO* STUDIES

Michael Riscoe, Jane X. Kelly, Martin Smilkstein, Grover C. Bagby, Rolf Winter

Veterans Affairs Medical Center, Portland, OR, United States

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A PHARMACOKINETIC/PHARMACODYNAMIC SCREENING MODEL FOR LEAD ANTIMALARIALS AND THEIR ACTIVE METABOLITES IN RHESUS MONKEYS

Paktiya Teja-Isavadharm¹, Duangsuda Siriyanonda¹, Maneerat Rasameesoraj¹, Montip Gettayacamin¹, Yvone Van Gessel¹, Nitima Chanarat¹, Apassorn Lim¹, Srisombat Wannaying¹, Weerawan Chuenarom¹, Victor Meléndez¹, Mark Fukuda¹, Ai J. Lin², Dennis E. Kyle²

¹Armed Forces Research Institution of Medical Sciences, Bangkok, Thailand, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

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ANTIMALARIAL 4-(1H)-PYRIDONES SELECTIVELY INHIBIT UBIQUINOL:CYTOCHROME C REDUCTASE (RESPIRATORY COMPLEX III) FROM PLASMODIA

Francisco-Javier Gamo¹, Maria J. Lafuente¹, Cristina de-Cozar¹, Laura M. Sanz¹, Jose L. Llergo¹, Lena Jimenez¹, Federico Gomez-de-las-Heras¹, David Pompliano², Akhil B. Vaidya³, Jose F. Garcia-Bustos¹

¹GlaxoSmithKline, Diseases of the Developing World, Tres Cantos (Madrid), Spain, ²GlaxoSmithKline, MMPD CEDD, Collegeville, PA, United States, ³Center for Molecular Parasitology, Drexel University College of Medicine, PA, United States

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CYTOCHROME B IS THE PRIMARY TARGET OF ANTIMALARIAL 4-(1H)-PYRIDONES

Francisco-Javier Gamo¹, Laura M. Sanz¹, Alfonso Mendoza¹, Jose L. Llergo¹, Eva M. Lopez¹, Federico Gomez-de-las-Heras¹, David Pompliano², Akhil Vaidya³, Jose F. Garcia-Bustos¹

¹GlaxoSmithKline, Diseases of the Developing World, Tres Cantos (Madrid), Spain, ²GlaxoSmithKline, MMPD CEDD, Collegeville, PA, United States, ³Center for Molecular Parasitology, Drexel University College of Medicine, PA, United States

Malaria – Drug Resistance

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EFFICACY OF MEFLOROQUINE TREATMENT FOR UNCOMPLICATED FALCIPARUM MALARIA IN YOUNG CHILDREN OF NORTHERN GHANA

David J. Fryauff¹, Seth Owusu-Agyei², Gregory Utz¹, Kevin Baird³, Kwadwo Koram⁴, Fred Binka⁵, Frances Nkrumah⁴, Stephen Hoffman⁶

¹U.S. Naval Medical Research Unit No. 3, Cairo, Egypt, ²Navrongo Health Research Center, Navrongo, Upper East Region, Ghana, ³Naval Medical Research Center, Silver Spring, MD, United States, ⁴Noguchi Memorial Institute of Medical Research, University of Ghana, Legon, Ghana, ⁵Department of Public Health and Epidemiology, University of Ghana, Legon, Ghana, ⁶Sanaria Inc., Rockville, MD, United States

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MOLECULAR SURVEILLANCE FOR MALARIA DRUG RESISTANCE IN IMPORTED *PLASMODIUM FALCIPARUM* ISOLATES: SENTINEL DATA FROM TROPNETEUROP

Katarina Stoeter¹, Sabine Dittrich¹, Michael Alifrangis², Nick Mühlberger¹, Tomas Jelinek¹, Martin Grobusch³, Thomas Weitzel¹, Thomas Zoller⁴, Joaquim Gascon⁵, Mirjam Schunk⁶, Stefan Ehrhardt⁷, Alberto Matteelli⁸, Hermann Laferl⁹, Juan Cuadros¹⁰, Zeno Bisoffi¹¹, Ida Gjørup¹², Jiri Beran¹³, Christoph Hatz¹⁴, Saraiva da Cunha¹⁵, Paul McWhinney¹⁶

¹Berlin Institute of Tropical Medicine, Berlin, Germany, ²University of Copenhagen, Rigshospitalet, Copenhagen, Denmark, ³Institute of Tropical Medicine, Tübingen, Germany, ⁴II. Medizinische Klinik (Infektiologie), Charité, Berlin, Germany, ⁵Sección de Medicina Tropical, Hospital Clinic, Barcelona, Spain, ⁶Department of Infectious Diseases and Tropical Medicine, University of Munich, Munich, Germany, ⁷Bernhard Nocht Institute of Tropical Medicine, Hamburg, Germany, ⁸Clinica di Malattie Infettive e Tropicali, Università di Brescia, Brescia, Italy, ⁹Kaiser-Franz-Josef-Spital der Stadt Wien, Vienna, Austria, ¹⁰Hospital Príncipe de Asturias, Alcalá de Henares, Spain, ¹¹Centro per le Malattie Tropicali, Ospedale S. Cuore, Negar - Verona, Italy, ¹²Department of Infectious Diseases, University Hospital, Copenhagen, Denmark, ¹³Department of Infectious Diseases, University Hospital, Hradec Kralove, Czech Republic, ¹⁴Swiss Tropical Institute, Basel, Switzerland, ¹⁵Consulta de Medicina do Viajante, Departamento de Doenças Infecciosas, Hospital Universitário, Coimbra, Portugal, ¹⁶Bradford Royal Infirmary, Bradford, United Kingdom

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ORPHENADRINE AS A CHEMOSENSITIZER AGAINST QUINOLINE-RESISTANT MALARIA

Martin J. Smilkstein¹, Jane X. Kelly¹, Rolf Winter¹, Dennis E. Kyle², Michael Riscoe¹

¹Portland Veterans Affairs Medical Center, Portland, OR, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

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SURVIVAL AND DEATH IN ERYTHROCYTIC STAGES OF *PLASMODIUM FALCIPARUM* TREATED WITH ANTI-MITOCHONDRIAL DRUGS

Heather J. Painter, Joanne M. Morrissey, Akhil B. Vaidya
Drexel University College of Medicine, Philadelphia, PA, United States

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***PLASMODIUM BERGHEI*: PARTIAL CHARACTERIZATION OF THE GAMMA-GLUTAMYL-CYSTEINE SYNTHETASE (GGCS) MRNA IN DRUG SENSITIVE AND RESISTANT LINES**

Joel Vega-Rodríguez, Miryam I. García, Adelfa E. Serrano
UPR, Medical Sciences Campus, San Juan, Puerto Rico

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MODULATION OF CHLOROQUINE SENSITIVITY IN *P. FALCIPARUM* BY OVER-EXPRESSION OF A *P.VIVAX* ORTHOLOG OF THE CHLOROQUINE RESISTANCE TRANSPORTER GENE, *PFCRT*

Juliana M. Sa¹, Marcio M. Yamamoto², Carmen Fernandez-Becerra², Thomas E. Wellems¹, Hernando A. del Portillo²

¹National Institutes of Health, Rockville, MD, United States,

²Universidade de Sao Paulo, Sao Paulo, Brazil

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POTENTIAL IMPACT OF INTERMITTENT PREVENTIVE TREATMENT FOR INFANTS ON THE SPREAD OF DRUG RESISTANT MALARIA

Wendy Prudhomme O'Meara, David Smith, F. Ellis McKenzie

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

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DISCRIMINATING LIFE CYCLE STAGES OF *PLASMODIUM FALCIPARUM* BY FLOW CYTOMETRY FOR *IN VITRO* EVALUATION OF ANTI-MALARIAL DRUG SUSCEPTIBILITY

Brian T. Grimberg, John J. Erickson, Kate B. Fenner, Peter A. Zimmerman

Case Western Reserve University, Cleveland, OH, United States

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SELECTION OF ATOVAQUONE-PROGUANIL RESISTANCE IN *PLASMODIUM FALCIPARUM*

Lise Musset¹, Olivier Bouchaud², Jérôme Clain³, Sophie Matheron⁴, Laurent Massias⁴, Jacques Y. Le Bras¹

¹Hôpital Bichat-Claude Bernard, Université Paris Descartes, Paris, France,

²Hôpital Avicenne, Bobigny, France, ³Université Paris Descartes, Paris, France,

⁴Hôpital Bichat-Claude Bernard, Paris, France

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A MULTIPLEX PCR-LIGASE DETECTION REACTION FOR SIMULTANEOUS GENOTYPE IDENTIFICATION OF MULTIPLE POLYMORPHIC POINTS ON *PLASMODIUM FALCIPARUM* GENOME

Eric P. Carnevale, Jeana T. DaRe, Melanie V. Parat, David T. McNamara, Peter A. Zimmerman

Case Western Reserve University, Cleveland, OH, United States

Malaria – Epidemiology

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CHANGING PATTERNS OF THE REEMERGING *PLASMODIUM VIVAX* MALARIA IN THE REPUBLIC OF KOREA

Eun-Taek Han¹, Won-Seok Seok², Young-Soo Kim², Takafumi Tsuboi¹, Jong-Yil Chai³

¹Cell-free Science and Technology Research Center, Matsuyama, Japan, ²Kangwon Institute of Health and Environment, Chunchon, Republic of Korea, ³Department of Parasitology and Tropical Medicine, Seoul National University College of Medicine, and Institute of Endemic Disease, Seoul, Republic of Korea

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MALARIA PREVALENCE IN FEBRILE PATIENTS IN HAITI

Marie Denise Milord¹, Claudel Bois¹, Frantz Lamothe¹, Beatrice Duvalsaint¹, Roseline B. Augustin², Vely Jean-Francois³, Earl G. Long⁴, Phuc Nguyen-Dinh⁴

¹Ministry of Public Health and Population, Port-au-Prince, Haiti,

²Hopital Albert Schweitzer, Deschapelles, Haiti, ³Pan American Health Organization, Port-au-Prince, Haiti, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

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DYNAMICS OF *PLASMODIUM FALCIPARUM* APICAL MEMBRANE ANTIGEN-1 SEQUENCE VARIATION OVER THREE YEARS AT A MALARIA VACCINE TESTING SITE IN BANDIAGARA, MALI

Christopher V. Plowe¹, Mahamadou A. Thera², Shannon L. Takala¹, Amed Ouattara¹, Nicole Eddington¹, Drissa Coulibaly², Dapa A. Diallo², Alassane Dicko², Abdoulaye A. Djimde², Ando Guindo², Abdoulaye Kone², Yacouba Cissoko², Karim Traore², Kirsten Lyke¹, Ogobara K. Doumbo²

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

²University of Bamako, Bamako, Mali

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EVALUATION OF WHO/RBM RECOMMENDATION TO USE ANEMIA AS AN INDICATOR OF MALARIA CONTROL IN MALAWI

Meghna Desai¹, Don Mathanga², Rachel Bronzan³, Jodi Vanden Eng¹, Adam Wolkon¹, Monica Parise¹, Grace Malenga², Carl Campbell³

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

²University of Malawi, College of Medicine, Blantyre, Malawi,

³Centers for Disease Control and Prevention Malaria Malawi Programme and Blantyre Integrated Malaria Initiative, Blantyre, Malawi

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MULTI-LEVEL MODELING OF FACTORS ASSOCIATED WITH HIGHLAND MALARIA RISK IN TWO KENYAN TOWNS EXHIBITING DIFFERENT PATTERNS OF INCIDENCE

Justin M. Cohen¹, Kacey C. Ernst¹, Peter O. Sumba², Chandy C. John³, Mark L. Wilson¹

¹Department of Epidemiology, University of Michigan, Ann Arbor, MI, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Department of Pediatrics, University of Minnesota, Minneapolis, MN, United States

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INTERPRETING HOUSEHOLD SURVEY DATA INTENDED TO MEASURE INSECTICIDE-TREATED BEDNET COVERAGE: RESULTS FROM TWO SURVEYS IN ERITREA

Thomas P. Eisele¹, Kate Macintyre¹, Josh Yukich¹, Tewolde Gebremeskel²

¹Department of International Health and Development, Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States, ²National Malaria Control Program, Ministry of Health, Asmara, Eritrea

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MULTIPLICITY OF *PLASMODIUM FALCIPARUM* INFECTION AND MALARIA INCIDENCE IN AN EPIDEMIC-PRONE AREA OF THE WESTERN KENYAN HIGHLANDS

Kacey C. Ernst¹, Marilyn McHugh², Peter O. Sumba³, Mark L. Wilson¹, Chandy C. John⁴

¹University of Michigan, Ann Arbor, MI, United States, ²Case Western Reserve University, Cleveland, OH, United States, ³Kenyan Medical Research Institute, Kisumu, Kenya, ⁴University of Minnesota, Minneapolis, MN, United States

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ASSESSING MALARIA RISKS IN THAILAND USING METEOROLOGICAL AND ENVIRONMENTAL PARAMETERS

Richard K. Kiang¹, Farida Adimi¹, Valerii Soika², Joseph D. Nigro¹

¹NASA Goddard Space Flight Center, Greenbelt, MD, United States, ²Science Systems and Applications, Inc., Lanham, MD, United States

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EPIDEMIOLOGY OF *PLASMODIUM* BLOOD-STAGE INFECTIONS IN THE WOSERA, EAST SEPIK PROVINCE, PAPUA NEW GUINEA

Laurin Kasehagen¹, David McNamara¹, Lawrence Rare², Benson Kiniboro², Kerry Lorry², Will Kastens¹, Moses Bockarie², John Reeder², Ivo Mueller², James Kazura¹, Peter Zimmerman¹

¹Case Western Reserve University, Center for Global Health and Diseases, Cleveland, OH, United States, ²Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

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DISTRIBUTION OF THE DUFFY-NEGATIVE ALLELE IN THE WOSERA, EAST SEPIK PROVINCE, PAPUA NEW GUINEA

Laurin Kasehagen¹, David McNamara¹, Benson Kiniboro², Ivo Mueller², Moses Bockarie², John Reeder², Peter Zimmerman¹

¹Case Western Reserve University, Center for Global Health and Diseases, Cleveland, OH, United States, ²Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea

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A LONGITUDINAL COHORT STUDY OF THE EPIDEMIOLOGY OF PEDIATRIC MALARIA IN KOMBWEA DIVISION, WESTERN KENYA: UPDATE

Bernhards R. Ogutu¹, Mark R. Withers², Melanie Onyango¹, Allan Otieno¹, John N. Waitumbi¹, Donald G. Heppner³, Kathryn Tucker, M.S.⁴, Jessica Milman⁵, Amanda Leach⁶, Bert Spiessens⁶, Ripley Ballou⁶, Carter Diggs⁷, Jose Stoute³

¹Kenya Medical Research Institute, Kisumu, Kenya, ²Kenya Medical Research Institute, United States Army Military Research Unit-Kenya (USAMRU-K), Kisumu, Kenya, ³Walter Reed Army Institute of Research (Walter Reed Army Institute of Research), Maryland, MD, United States, ⁴Statistics Collaborative, Inc., Washington DC, WA, United States, ⁵PATH Malaria Vaccine Initiative, Washington DC, WA, United States, ⁶GlaxoSmithKline Biologicals, Rixensart, Belgium, ⁷U.S. Agency for International Development (USAID) Malaria Vaccine Development Project, Washington DC, WA, United States

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RAPID ASSESSMENT OF MALARIA BURDEN IN UNSTABLE MALARIA TRANSMISSION OF MALI

Kassoum Kayentao¹, Djeneba Doumbia², Mahamadou Sissoko¹, Issaka Sagara¹, Alassane Dicko¹, Boubacar Traore¹, Hamadoun Sangho¹, Adama Diawara¹, Ousmane Toure¹, Ogobara Doumbo¹

¹University of Bamako, Mali, Bamako, Mali, ²Hospital of Point-G, Mali, Bamako, Mali

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Josué Costa Lima-Junior¹, Tuan M. Tran², Esmeralda V. Meyer², Singh Balwan², Eileen Farnon³, Salvatore Giovanni De-Simone⁴, Fátima Santos⁵, John W. Barnwell⁶, Mary G. Galinski³, Joseli Oliveira-Ferreira¹

¹Department of Immunology / Fundação Oswaldo Cruz, Rio de Janeiro, Brazil, ²Emory Vaccine Research Center/Emory University, Atlanta, GA, United States, ³Emory Vaccine Research Center - Emory University School of Medicine / Emory University, Atlanta, GA, United States, ⁴Department of Biochemical and Molecular Biology / Fundação Oswaldo Cruz, Rio de Janeiro, Brazil, ⁵LACEN - Fundação Nacional de Saúde, Porto Velho, Brazil, ⁶Division of Parasitic Disease /National Center for Infectious Diseases, Atlanta, GA, United States

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COMMUNITY BASED STUDY OF INTERMITTENT PREVENTIVE THERAPY WITH SULFADOXINE-PYRIMETHAMINE AND CHLOROQUINE IN PREVENTING MALARIA DURING PREGNANCY IN MALI

Aissata Ongoiba, Kassoum Kayentao, Boubacar Traore, Didier Dountabe, Etienne Guirou, Birama Kanoute, Ogobara Doumbo

University of Bamako, Mali, Bamako, Mali

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SULFADOXINE-PYRIMETHAMINE INTERMITTENT PREVENTIVE TREATMENT: EFFECTIVENESS AGAINST MALARIA AND ANEMIA IN PREGNANT MALAWIAN WOMEN, IN 2000-2004

Victor Wwapasa¹, Stephen J. Rogerson², Deborah D. Kamwendo³, Malcolm E. Molyneux⁴, Eyob Tadesse¹, Ebbie Chalaluka⁵, Steven R. Meshnick⁶

¹*University of Malawi College of Medicine, Blantyre, Malawi,*

²*University of Melbourne, Parkville, Australia,*

³*University of Michigan, Ann Arbor, MI, United States,*

⁴*Malawi-Liverpool Wellcome Clinical Research Program, Blantyre, Malawi,*

⁵*Malawi-Liverpool-Wellcome Clinical Research Program, Blantyre, Malawi,*

⁶*University of North Carolina, Chapel Hill, NC, United States*

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IDENTIFYING THE CAUSAL CHANNELS OF THE MALARIA GAP: POPULATION MOBILITY AND ITS IMPACT ON GDP IN THE FORMER FEDERATED MALAY STATES

Derek W. Willis¹, Jürg Utzinger², Burton H. Singer¹

¹*Princeton University, Princeton, NJ, United States,* ²*Swiss Tropical Institute, Basel, Switzerland*

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ANALYSIS OF SINGLE NUCLEOTIDE POLYMORPHISMS AT THE *PLASMODIUM VIVAX* APICAL MEMBRANE ANTIGEN 1 (PVAMA1) LOCUS AMONG SRI LANKAN ISOLATES

Anusha D. Gunasekera¹, Thilan Wickramarachchi², Ishani Ganguli¹, Lakshman Perera², P. H. Premaratne³, D. M. Dissanayake², Preethi V. Udagama-Randeniya³, Shiroma M. Handunnetti⁴, Dyann F. Wirth¹

¹*Harvard School of Public Health, Boston, MA, United States,*

²*Malaria Research Unit, University of Colombo, Colombo, Sri Lanka,*

³*Dept of Zoology, Faculty of Science, University of Colombo,*

Colombo, Sri Lanka, ⁴*Institute of Biochemistry, Molecular Biology and Biotechnology, University of Colombo, Colombo, Sri Lanka*

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POPULATION GENETIC STRUCTURE OF *PLASMODIUM FALCIPARUM* IN WESTERN KENYA HIGHLANDS

Raphael N. Abanja¹, Andrew K. Githeko², Guofa Zhou¹, Liwang Cui³, Guiyun Yan¹

¹*State University of New York at Buffalo, Buffalo, NY, United States,*

²*Vector Biology and Control Research Centre, KEMRI, Kisumu,*

Kenya, ³*Department of Entomology, Pennsylvania State University, State College, PA, United States*

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INCIDENCE OF MALARIAL INFECTION AND DISEASE AMONG CHILDREN WITH HEMOGLOBIN S IN THE MALARIA-ENDEMIC VILLAGE OF MISSIRA IN KOLOKANI, MALI

Ousmane A. Koita¹, Mamadou W. Bagayoko¹, Aliou Sissako¹, Aliou Coulibaly¹, Lansana Sangare¹, Ibrah Mahamadou¹, James Colborn², Jacqueline Janka³, Thomas E. Wellems³, Donald J. Krogstad²

¹*Faculty of Science, University of Bamako, Bamako, Mali,* ²*Tulane University, New Orleans, LA, United States,* ³*National Institutes of Health, Bethesda, MD, United States*

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EFFECT OF SEASONALITY ON THE PREVALENCE OF THE FOUR MALARIA PARASITE SPECIES IN NORTHERN MALI

Ousmane A. Koita¹, Sounkalo Dao¹, Hammadoun A. Sango¹, Moussa S. Maiga¹, Mamadou Mounkoro¹, Lansana Sangare¹, Naffet Keita¹, Soumana Fane¹, Ibrah Mahamadou¹, Klenon Traore¹, Abdourahamane S. Maiga¹, Mahamane K. Maiga¹, Amadou Diallo¹, Donald J. Krogstad²

¹*University of Bamako, Bamako, Mali,* ²*Tulane University Health Sciences Center, New Orleans, LA, United States*

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NATURALLY ACQUIRED ANTIBODIES TO SEVEN VARIANTS OF THE RECOMBINANT *PLASMODIUM FALCIPARUM* MEROZOITE SURFACE PROTEIN 119-KILODALTON DOMAIN PROVIDE PROTECTION AGAINST ASYMPTOMATIC PARASITEMIA

Isabella A. Quakyi¹, Rose Leke², Ainong Zhou³, Rosa Befidi-Mengue², Julienne Lohoue², Lucy Thuita³, Kit Christenson³, Viviane Tchinda², Samuel Kouontchou², Philomena Nyonglema², Jean Meli², Anthony Stowers⁴, David Kaslow⁴, Diane Wallace Taylor³, Armead H. Johnson³

¹*University of Ghana, College of Health Sciences, Legon, Accra,*

Ghana, ²*University of Yaounde I, Faculty of Medicine and*

Biomedical Sciences, Cameroon, ³*Georgetown University,*

Departments of Biology and Pediatrics, DC, United States, ⁴*Malaria*

Vaccine Development Unit, National Institute of Allergy and

Infectious Diseases, National Institutes of Health, Bethesda, MD,

United States

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THE ROLE OF EFFECTOR CD8+ T CELLS IN MONKEYS IMMUNIZED WITH IRRADIATED MALARIA SPOOROZOITES

Walter R. Weiss¹, George Jiang¹, Solomon Conteh¹, Jack Williams², Thomas Richie¹

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

²*Walter Reed Army Institute of Research, Silver Spring, MD, United States*

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PLASMODIUM YOELII INFECTION DEPENDENT IMMUNOSUPPRESSION IN C57BL/6 AND DUFFY KNOCKOUT MICE

Lili Xu, Susanne Heck, Xiuli An, Asok Chaudhuri
New York Blood Center, New York, NY, United States
 (ACMCIP Abstract)

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REPEAT CROSS-SECTIONAL INTERFERON-GAMMA RESPONSES TO OVERLAPPING PEPTIDES OF THE 33-KDA REGION OF MEROZOITE SURFACE PROTEIN-1 (MSP-1) OF PLASMODIUM FALCIPARUM IN WESTERN KENYA

Michele Spring¹, Ann Moormann², Daniel Tisch², Peter Odada Sumba³, James Kazura²

¹Vanderbilt University, Nashville, TN, United States, ²Case Western Reserve University, Cleveland, OH, United States, ³Kenya Medical Research Institute, Kisumu, Kenya

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ANTIBODIES TO CSP AND MSP-1(42KDA) CORRELATE WITH PROTECTION FROM PLASMODIUM FALCIPARUM INFECTION IN BOTH ADULTS AND CHILDREN WHILE ANTIBODIES TO MSP-1(19KDA) ARE PROTECTIVE ONLY FOR CHILDREN

Arlene E. Dent¹, Kiprotich Chelimo², Peter Odada Sumba², Daniel Tisch³, Marilyn M. McHugh¹, Chandy C. John⁴, Sanjay Singh⁵, Carole Long⁵, James W. Kazura¹, Ann M. Moormann¹

¹Center for Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States, ²Center for Vector Biology and Control Research, Kenya Medical Research Institute, Kisumu, Kenya, ³Case Western Reserve University, Cleveland, OH, United States, ⁴Rainbow Center for International Health, Case Western Reserve University, Cleveland, OH, United States, ⁵Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

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FC γ RECEPTOR IIA POLYMORPHISM AND SUSCEPTIBILITY TO MALARIA IN SYMPATRIC ETHNIC TRIBES FULANI AND DOGON LIVING IN MALI, WEST AFRICA

Bakary Maiga¹, Amagana DOLO¹, Anna Davidson², Manijed Vafa², Magdi Ali², Ogobara Doumbo¹, Marita Troye-Blomberg²

¹Malaria Research and Training Center, Bamako, Mali ²WGI, Department of Immunology, Stockholm University, Stockholm, Sweden

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IMPACT OF PRENATAL EXPOSURE TO MALARIA ANTIGENS ON LEVELS OF MSP-1₉ INVASION-INHIBITORY ANTIBODIES DURING INFANCY

Arlene E. Dent¹, Chris L. King¹, Indu Malhotra¹, Brendan S. Crabb², James W. Kazura¹

¹Case University, Cleveland, OH, United States, ²Walter Eliza Hall Institute, Melbourne, Australia

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INDUCTION OF CD8+ T CELL RESPONSES FOLLOWING IMMUNIZATION WITH PLASMODIUM YOELII SPOROZOITES

Julius Hafalla¹, Fidel Zavala², Ana Rodriguez¹

¹New York University, New York, NY, United States, ²Johns Hopkins University, Baltimore, MD, United States

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A ROLE FOR NATURALLY OCCURRING ANTI-GALACTOSYL ANTIBODY (ANTI-GAL) IN PLASMODIUM FALCIPARUM INFECTION

Bidyut K. Das

S.C.B. Medical College, Cuttack, India

(ACMCIP Abstract)

Malaria – Molecular Biology

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FUNCTIONAL ANALYSIS OF PLASMODIUM FALCIPARUM MAEBL

Fabian E. Saenz, Bharath Balu, Jun Fu, John H. Adams

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

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OPTIMIZING CONDITIONS FOR PIGGYBAC MEDIATED INSERTIONAL MUTAGENESIS OF PLASMODIUM FALCIPARUM

Douglas A. Shoue, Barath Balu, Malcolm J. Fraser, John H. Adams

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

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FIRST IDENTIFICATION AND CHARACTERIZATION OF AN ABCG GENE IN PLASMODIUM BERGHEI

Roxana Cintrón-Moret¹, Ricardo González-Méndez¹, Joel Vega-Rodríguez¹, Hugh B. Nicholas², Adelfa Serrano-Brizuela¹

¹UPR, Medical Sciences Campus, San Juan, Puerto Rico,

²Pittsburgh Supercomputing Center, Pittsburgh, PA, United States

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FUNCTIONAL SIMILARITY BETWEEN THE SUBTILISIN-LIKE PROTEASES OF *BABESIA DIVERGENS* AND *PLASMODIUM FALCIPARUM* DURING MEROZOITE INVASION OF HUMAN RED BLOOD CELLS

Estrella Montero¹, Michael J. Blackman², Cheryl A. Lobo¹
¹Molecular Parasitology Department, LFKRI New York Blood Center, New York, NY, United States, ²Division of Parasitology, National Institute for Medical Research, Mill Hill., London, United Kingdom

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EFFECT OF AT AND GC CONTENT AND TEMPLATE LENGTH ON ESTIMATION OF TEMPLATE COPY NUMBER USING REAL TIME PCR

James Colborn¹, Brian D. Byrd¹, Fareed Qaddoura², Donald J. Krogstad¹
¹Tulane University, New Orleans, LA, United States, ²University of New Orleans, New Orleans, LA, United States

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IDENTIFICATION OF PROTEINS INTERACTING WITH THE UNUSUAL SUBUNIT A OF THE V-ATPASE IN A MALARIA PARASITE

Kamal Laroia, Lawrence W. Bergman, Akhil B. Vaidya
Drexel University College of Medicine, Philadelphia, PA, United States
(ACMCIP Abstract)

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MANNANOSE-BINDING LECTIN (MBL): THE FREQUENCY OF GENETIC POLYMORPHISMS, SERUM LEVELS, AND PREGNANCY OUTCOME IN CAMEROONIAN WOMEN

Audrey Thevenon¹, Rose G.F. Leke², Armosolo L. Suguitan¹, Josephine Fogako², Ainong Zhou³, Diane Wallace Taylor¹
¹Georgetown university, Washington, DC, United States, ²Biotechnology center, University of Yaoundé, Yaoundé, Cameroon, ³AZ Data Clinic, Inc., Rockville, MD, United States
(ACMCIP Abstract)

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AN APPARENT CONTRADICTION: *PLASMODIUM FALCIPARUM* MAY BE AUXOTROPHIC FOR LIPOATE DESPITE THE PRESENCE OF A LIPOATE BIOSYNTHESIS PATHWAY

Marina Allary¹, Jeff Z. Lu¹, Liqun Zhu¹, Squire J. Booker², Sean T. Prigge¹
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²The Pennsylvania State University, University Park, PA, United States
(ACMCIP Abstract)

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PARTIAL CHARACTERIZATION OF THE *PLASMODIUM YOELII* BREAST CANCER RESISTANCE PROTEIN GENE HOMOLOGUE (*PYBCRP*) IN DRUG SENSITIVE AND RESISTANT LINES

Ivan Ferrer-Rodriguez¹, Manuel Soto-Ortiz¹, José A. García¹, Wendymar Figueroa¹, Joel Vega², Adelfa E. Serrano²
¹Inter American University of Puerto Rico, Bayamón, PR, United States, ²University of Puerto Rico, School of Medicine, San Juan, PR, United States

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GENETIC DIVERSITY OF *PLASMODIUM VIVAX* IN MALARIA HIGH RISK AREAS OF GUATEMALA, CENTRAL AMERICA

Renata M. Mendizabal-Cabrera¹, John W. Barnwell², Norma Padilla¹
¹Center for Health Studies, Universidad del Valle de Guatemala and Medical Entomology Research and Training Unit - Guatemala MERTU-G/Centers for Disease Control and Prevention, Guatemala, Guatemala, ²Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States

Malaria – Vaccines

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NATURAL BOOSTING OF ANTIBODIES TO ANTIGEN PB48/45 FROM *PLASMODIUM BERGHEI* IN MICE PRIMED WITH A DNA VACCINE ENCODING THE ANTIGEN

Diana E. Haddad, Jorge Maciel, Nirbhay Kumar
Johns Hopkins University, Baltimore, MD, United States

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USE OF 6-COLOR FLOW CYTOMETRY TO MEASURE IMMUNE RESPONSE IN RHESUS MACAQUES IMMUNIZED WITH MALARIA VACCINE CANDIDATES

Shannon M. McGrath¹, Babak Bayat², Marie-Noëlle Donner², Pascal Mettens², Catherine Collignon², Maria Grazia Pau³, Patrice Dubois², Jaap Goudsmit³, Joe Cohen², D. Gray Heppner¹, V. Ann Stewart¹
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²GlaxoSmithKline Biologicals, Rixensart, Belgium, ³CruceCell Holland BV, Leiden, Netherlands
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EVALUATION OF IMMUNOGENICITY OF ADENOVIRUS-PFC5 MALARIA VACCINE CANDIDATES IN MICE

Joseph Shott¹, Maria Grazia Pau², Marie-Ange Demoiti³, Jerome H. Custers², Shannon McGrath¹, Patrice Dubois³, Olga Ophorst², Marie-Claude Dubois³, Jack Komisar¹, Joe Cohen³, Jaap Goudsmit², D. Gray Heppner¹, V. Ann Stewart¹
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²CruceCell Holland BV, Leiden, Netherlands, ³GlaxoSmithKline Biologicals, Rixensart, Belgium
(ACMCIP Abstract)

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PROTECTION OF CHINESE RHESUS MONKEYS AGAINST PLASMODIUM KNOWLESI SPOOROZOITE CHALLENGE BY HETEROLOGOUS PRIME/BOOST VACCINATION

C. George Jiang¹, Solomon Conteh¹, Anais Z. Valencia¹, Nancy O. Richie¹, Larry J. Shelton, Jr¹, Priti Singh¹, Kurt I. Kamrud², Joseph T. Bruder³, Ping Chen³, Jeffrey D. Chulay², C. Richter King³, Jonathan Smith², Keith J. Limbach¹, Daniel J. Carucci¹, Thomas L. Richie¹, Denise L. Doolan¹, Walter R. Weiss¹

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

²AlphaVax, Inc, Triangle Research Park, NC, United States,

³GenVec, Inc, Gaithersburg, MD, United States

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INTERFERON-GAMMA ELISPOT RESPONSES TO PFAMA-1/E, A RECOMBINANT PROTEIN BLOOD-STAGE P. FALCIPARUM VACCINE CANDIDATE, IN RHESUS MACAQUES

Michelle Cobb¹, Shannon McGrath¹, Sheetij Dutta¹, Lisa A. Ware¹, P.V. Lalitha¹, Joe Cohen², David E. Lanar¹, D. Gray Heppner¹, V. Ann Stewart¹

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

²GlaxoSmithKline Biologicals, Rixensart, Belgium

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RAPID CONTROL OF BLOODSTAGE PARASITEMIA IN M. FASCICULARIS FOLLOWING CHALLENGE WITH PLASMODIUM KNOWLESI SPOOROZOITES

Gary T. Brice¹, Craig A. Stoops¹, Imelda Winoto¹, Rita M. Dewi², Ikke Yuniherlina¹, Jason D. Maguire¹, J. Kevin Baird¹

¹Navy Medical Research Unit-2, Jakarta, Indonesia, ²National Institute of Health Research and Development, Jakarta, Indonesia

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SCREENING OF NOVEL MALARIA TRANSMISSION-BLOCKING VACCINE CANDIDATES USING WHEAT GERM CELL-FREE PROTEIN SYNTHESIS SYSTEM

Hideyuki Iriko¹, Satoru Takeo¹, Ling Jin¹, Osamu Kaneko², Motomi Torii¹, Jetsumon Sattabongkot³, Sanjay Singh⁴, Tatsuya Sawasaki¹, Yaeta Endo¹, Takafumi Tsuboi¹

¹Cell-Free Science and Technology Research Center, Ehime University, Matsuyama, Japan,

²Department of Molecular Parasitology, Ehime University School of Medicine, Toon, Japan,

³Department of Entomology, USAMC AFRIMS, Bangkok, Thailand,

⁴Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

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VAXFECTIN™ ENHANCES IMMUNIZATION WITH VERY LOW DOSES OF PLASMID DNA IN A MOUSE MALARIA VACCINE MODEL

Martha Sedegah¹, William O. Rogers², Arnel Belmonte¹, Maria Belmonte¹, Glenna Banania¹, Noelle Patterson¹, Marilyn Ferrari³, David Kaslow³, Thomas L. Richie¹, Denise L. Doolan¹

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

²Naval Medical Research Unit #3, Cairo, Egypt, ³Vical Inc., San

Diego, CA, United States

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Evelina Angov¹, Farhat Khan¹, Elke S. Bergmann-Leitner¹, Randall Kincaid², Donald G. Heppner¹, Lorraine Soisson³, Joe Cohen⁴, Carter L. Diggs³, Jeffrey A. Lyon¹

¹Department Immunology, Walter Reed Army Institute of Research,

Silver Spring, MD, United States, ²Veritas, Inc., Rockville, MD,

United States, ³United States Agency for International

Development, Washington, DC, United States, ⁴GlaxoSmithKline

Biologicals, Rixensart, Belgium

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David L. Narum¹, Solabomi A. Ogun², Adrian Batchelor³, Anthony A. Holder²

¹National Institutes of Health, Rockville, MD, United States,

²National Institute for Medical Research, Mill Hill, London, United

Kingdom, ³University of Maryland School of Pharmacy, Baltimore,

MD, United States

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Milton M. McAllister

University of Illinois, Urbana, IL, United States

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Tobili Y. Sam-Yellowe¹, Tongmin Wang¹, Hisashi Fujioka², Judith Drazba³

¹Cleveland State University, Cleveland, OH, United States, ²Case

Western Reserve University, Cleveland, OH, United States, ³The

Cleveland Clinic Foundation, Cleveland, OH, United States

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¹*University of California, Irvine, Irvine, CA, United States*, ²*National Institutes of Health, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States*

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¹*Liverpool School of Tropical Medicine, Liverpool, United Kingdom*, ²*Michigan State University, East Lansing, MI, United States*

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Junsuo S. Li¹, Seong-Ruyl Kim¹, Bruce M. Christensen², Jianyong Li¹
¹*University of Illinois, Urbana, IL, United States*, ²*University of Wisconsin-Madison, Madison, WI, United States*

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¹*Colorado State University, Fort Collins, CO, United States*, ²*University of Miami, Miami, FL, United States*

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Marco Pombi¹, Alessandra della Torre¹, Nora J. Besansky²
¹University of Rome, Rome, Italy, ²University of Notre Dame, Notre Dame, IN, United States

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Monica A. Alvarez¹, Martin Davenport², Marcelo Jacobs-Lorena², Zhijian Tu¹
¹Virginia Tech, Blacksburg, VA, United States, ²Johns Hopkins University, Baltimore, MD, United States
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Cong Li, Richard Wilkerson
Walter Reed Army Institute of Research, Silver Spring, MD, United States

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Lauren B. Kent, Hugh M. Robertson
University of Illinois at Urbana-Champaign, Urbana, IL, United States

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Ana Maria de Merida¹, Maria Eugenia Morales-Betoulle¹, Maria Rene Lopez¹, Ediviges Molina¹, Sandra Rosales¹, **Alvaro Molina-Cruz**², William C. Black³
¹Universidad del Valle de Guatemala-MERTU/Centers for Disease Control and Prevention, Guatemala, Guatemala, ²National Institutes of Health, Bethesda, MD, United States, ³Colorado State University, Fort Collins, CO, United States

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Juan-Carlos Navarro¹, Gabriela Rangel-Diaz¹, Camila Hernandez¹, Scott C. Weaver²
¹Universidad Central de Venezuela, Instituto de Zoología Tropical, Lab Biología de Vectores, Caracas, Venezuela, ²Center for Biodefense and Emerging Infectious Diseases, University of Texas Medical Branch, Galveston, TX, United States

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Instituto Nacional de Salud, Lima, Peru

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Stephen O. Munga¹, Minakawa Noboru², Goufa Zhou³, Okeyo-Owuor J. Barrack⁴, Andrew K. Githeko¹, Guiyun Yan³
¹Kenya Medical Research Institute, Kisumu, Kenya, ²Saga University, Saga, Japan, ³State University of New York at Buffalo, Buffalo, New York, NY, United States, ⁴Moi University, Eldoret, Kenya

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Roch K. Dabire¹, Abdoulaye Diabate¹, Ali Ouari¹, Jean Bosco Ouedraogo¹, Robert T. Guiguemde¹, Carlo Costantini²
¹Institut de Recherche en Sciences de la Sante/Centre Muraz, Bobo-Dioulasso, Burkina Faso, ²Institut de Recherche pour le developement, Ouagadougou, Burkina Faso

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¹Malaria Research and Training Center, Bamako, Mali, ²Center for Microbial and Plant Genomics, Minnesota, MN, United States

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Laura C. Harrington¹, Alongkot Ponlawat¹, Thomas W. Scott², John D. Edman²
¹Cornell University, Ithaca, NY, United States, ²University of California, Davis, CA, United States

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

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Emma L. Warr, Yuemei Dong, Ruth Aguilar, George Dimopoulos

Johns Hopkins University, Baltimore, MD, United States

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Colorado State University, Fort Collins, CO, United States

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Colorado State University, Fort Collins, CO, United States

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¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Ministry of Health, Anti-Malarial Campaign, Colombo, Sri Lanka, ³University of Peradeniya, Peradeniya, Sri Lanka

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Guofa Zhou¹, Guiyun Yan¹, Andrew Githeko², Rosemary Owiga²

¹SUNY at Buffalo, Buffalo, NY, United States, ²Kenya Medical Research Institute, Kisumu, Kenya

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A. Marm Kilpatrick¹, Matthew Jones², Laura D. Kramer², Peter P. Marra³, Peter Daszak¹

¹Consortium for Conservation Medicine, New York, NY, United States, ²Wadsworth Center, New York State Department of Health, Albany, NY, United States, ³Smithsonian Environmental Research Center, Edgewater, MD, United States

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Luca Facchinelli¹, Laura Valerio¹, Marco Pombi¹, Carlo Costantini², Paul Reiter³, Alessandra della Torre¹

¹University of Rome, Rome, Italy, ²Institut de Recherche pour le Développement (IRD), Ouagadougou, Burkina Faso, ³Institut Pasteur, Unit of Insects and Infectious Diseases, Paris, France

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Maxwell A. Appawu¹, Samuel Dadzie¹, Victor Asoala², Francis Anto², Kwadwo Koram¹, William Rogers³, Francis Nkrumah¹, David Fryauff⁴

¹Noguchi Memorial Institute for Medical Research, Accra, Ghana, ²Navrongo Health Research Center, Navrongo, Ghana, ³United States Naval Medical Research Unit No. 3, Cairo, Egypt, ⁴Naval Medical Research Center, Silver Spring, MD, United States

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¹Fundación Santa Fe de Bogota, Bogotá, Colombia, ²Universidad de los Andes, Bogotá, Colombia, ³Instituto Nacional de Salud, Bogotá, Colombia, ⁴Instituto de Hidrologia, Meteorología y Estudios Ambientales, Bogotá, Colombia

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Dana L. Vanlandingham¹, Konstantin Tsetarkin², Chao Hong², Kimberly Klingler², Kate L. McElroy², Stephen Higgs², Michael J. Lehane¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²University of Texas Medical Branch, Galveston, TX, United States

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Ibrahima Baber¹, Sogoba Nafomon¹, Seydou Doumbia¹, Moussa Keita¹, Adama Sacko¹, Mamoudou Maiga¹, Brehima Diallo¹, Sekou Koumare¹, Guimoko Dolo¹, Sekou F. Traore¹, Jose Ribeiro²

¹Malaria Research and Training Center, Bamako, Mali, ²LMVR/National Institute of Allergy and Infectious Diseases/National Institutes of Health, Rockville, MD, United States

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National Institutes of Health Peru, Lima, Peru

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Walter Leon-Cueto¹, Pablo Villaseca¹, Luis Cubillas², Mauricio Rubín², Rosa Mostorino¹, Rosario Balta¹, Lely Solari¹, Victor Suarez¹, Cesar Cabezas¹

¹National Institutes of Health Peru, Lima, Peru, ²DISA Lima Norte, Lima, Peru

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Camila Gonzalez¹, Horacio Cadena¹, Mauricio Perez¹, Carlos A. Morales², Charles Apperson³, Dawn Wesson⁴, **Clara B. Ocampo**¹

¹Centro Internacional de Entrenamiento e Investigaciones Medicas, Cali, Colombia, ²Public Health Secretary from Cali, Cali, Colombia, ³North Carolina State University, North Carolina, NC, United States, ⁴Tulane University, New Orleans, LA, United States

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Dawn M. Wesson, Richard Campanella, Kathryn Benton, Gil Stav, Delmonique Lyons

Tulane University, New Orleans, LA, United States

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Patrick Halbig¹, Josephat Shililu², John Githure², Robert Novak³, Robert Novak³

¹University of Illinois, Urbana, IL, United States, ²International Center of Insect Physiology and Ecology, Nairobi, Kenya, ³Illinois Natural History Survey, Champaign, IL, United States

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Sophia Simonishvili¹, Shota Tsanava¹, Ketevan Sanadze¹, Rusudan Chlikadze¹, Anna Miskalishvili¹, Nino Lomkatsi¹, Paata Imnadze¹, William A. Petri², **Nino Trapaidze**¹

¹National Center for Disease Control and Medical Statistics of Georgia, Tbilisi, Georgia, ²Department of Internal Medicine, Microbiology and Pathology, University of Virginia, Charlottesville, VA, United States

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IL-10 IS ESSENTIAL FOR PROTECTION AGAINST *E. HISTOLYTICA* INFECTION

Shinjiro Hamano¹, Amon Asgharpour¹, Edward H. Leiter², Eric Houpt¹

¹University of Virginia, Charlottesville, VA, United States, ²The Jackson Laboratory, Bar Harbor, ME, United States

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COMPARISON OF DIFFERENT STOOL FIXATIVES FOR PCR-BASED IDENTIFICATION OF *ENTAMOEBA HISTOLYTICA*

Stephanie P. Johnston¹, Yvonne Qvarnstrom², Jeremy Long³, Alexandre J. da Silva¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Centers for Disease Control and Prevention and Atlanta Research and Education Foundation, Atlanta, GA, United States, ³Georgia Institute of Technology, Atlanta, GA, United States

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GUT MUCOSAL GENE EXPRESSION AS DETERMINED BY OLIGONUCLEOTIDE ARRAYS IN RESPONSE TO *GIARDIA LAMBLIA* – HOST INTERACTIONS

Ernest A. Tako, Erqiu Li, Steven M. Singer

Georgetown University, Washington, DC, United States

(ACMCIP Abstract)

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GIARDIASIS AND CO-PATHOGEN INFECTION AMONG CHILDREN WITH ACUTE DIARRHEA IN EGYPT

Ibrahim Adib Abdel-Messih¹, Carey S. Schlett¹, **Mark S. Riddle**¹, Thomas S. Wierzba¹, Remon S. Abu-Elyazeed¹, Abdel-Fattah Ibrahim², Khaled Zabady³, Salwa F. Ahmed¹, Stephen J. Savarino⁴, John W. Sanders¹

¹Naval Medical Research Unit No. 3, Cairo, Egypt, ²Benha Fever Hospital, Benha, Egypt, ³Abu Homos District Hospital, Abu Homos, Egypt, ⁴Naval Medical Research Center, Silver Spring, MD, United States

Protozoa – Opportunistic Protozoa

954

A THREE-DIMENSIONAL HCT8 ORGANOID MODEL OF CRYPTOSPORIDIAL INFECTION

Cirle Alcantara Warren¹, Raul V. Destura¹, Jesus Emmanuel S. Sevilleja¹, Humberto Carvalho², Allison D. O'Brien², Leah J. Barrett³, Richard L. Guerrant³

¹National Institutes of Health Philippines, Manila, Philippines, ²Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ³University of Virginia Center for Global Health, Charlottesville, VA, United States

955

ISOLATION OF DENDRITIC CELLS IN CHICKENS INFECTED WITH *EIMERIA TENELLA*

Emilio del Cacho, Margarita Gallego, Fernando López-Bernad, Caridad Sánchez-Acedo, Joaquin Quílez

University of Zaragoza, Zaragoza, Spain

(ACMCIP Abstract)

Trematodes – Schistosomiasis**956****SCHISTOSOMA MANSONI: CYTOKINES LEVELS BEFORE AND AFTER HUMAN TREATMENT**

Pauline M. Leite¹, Elizabeth Castro Moreno², Olindo Assis Martins Filho³, Alda Maria Soares Silveira¹, Luiz Cosme Cotta Malaquias¹, Giovanni Gazzinelli³, Philip LoVerde⁴, Rodrigo Correa Oliveira³, Lucia Alves Oliveira Fraga¹

¹Universidade Vale do Rio Doce, Gov. Valadares, Brazil, ²Fundacao Nacional de Saude - Minas Gerais, BeloHorizonte, Brazil, ³Centro de Pesquisas Rene Rachou - Fiocruz, Belo Horizonte, Brazil, ⁴New York University at Buffalo, Buffalo, NY, United States

(ACMCIP Abstract)

957**NO-DEPENDENT CHANGES IN SCHISTOSOMA MANSONI GENE EXPRESSION IDENTIFIED BY SAGE**

Shanta M. Messerli¹, Shanda R. Birkeland¹, Jeremiah Bernier², Michael J. Cipriano¹, Andrew G. McArthur¹, Robert M. Greenberg¹

¹Marine Biological Laboratory, Woods Hole, MA, United States, ²Coastal Oregon Marine Experiment Station, Hatfield Marine Science Center, Oregon State University, Newport, OR, United States

(ACMCIP Abstract)

958**COMMUNITY PARTICIPATION DOES NOT ENSURE PARTICIPATION IN SCHISTOSOMIASIS MASS CHEMOTHERAPY**

Veronica L. Tallo¹, Portia P. Alday¹, Mila C. Fulache¹, Helene Carabin², Stephen T. McGarvey³, Remigio M. Olveda¹

¹Research Institute for Tropical Medicine, Muntinlupa City, Philippines, ²University of Oklahoma Health Sciences Center, Oklahoma, OK, United States, ³International Health Institute, Brown University, Providence, RI, United States

959**CLIMATE-BASED PREDICTION OF THE POTENTIAL DISTRIBUTION OF SCHISTOSOMIASIS IN BRAZIL**

John B. Malone¹, Maria E. Bavia², Ronaldo Amaral³, Pricia Nieto¹

¹Louisiana State University, Baton Rouge, LA, United States, ²Federal University of Bahia, Salvador, Brazil, ³Ministry of Health, Brazilia, Brazil

960**TRANSDUCTION OF SCHISTOSOMA MANSONI SPOROCYSTS BY VSV-G PSEUDOTYPED MOLONEY MURINE LEUKEMIA RETROVIRAL CONSTRUCTS**

Kristine J. Kines¹, Victoria H. Mann¹, Maria E. Morales¹, Bryan Shelby¹, Bernd H. Kalinna², Paul J. Brindley¹

¹Tulane University, New Orleans, LA, United States, ²Humboldt University-Berlin, Berlin, Germany

(ACMCIP Abstract)

961**LUCIFERASE REPORTER ACTIVITY IN INSECT AND MAMMALIAN CELL LINES DRIVEN BY SCHISTOSOME GENE PROMOTERS**

Porn tip Pinlaor, Kristine J. Kines, Victoria H. Mann, Maria E. Morales, Claudia S. Copeland, Paul J. Brindley

Tulane University, New Orleans, LA, United States

962**DESCRIBING SCHISTOSOMA JAPONICUM INFECTION AND VILLAGE-TO-VILLAGE VARIATION IN THE INTENSITY OF INFECTION IN HUMANS IN A SCHISTOSOMA JAPONICUM ENDEMIC REGION OF THE PHILIPPINES**

Mushfiqur Tarafder¹, Veronica Tallo², Helene Carabin¹, Ernesto Balolong², Portia Alday², Ryan Gonzales², Remigion Olveda², Stephen T. McGarvey³, Hélène Carabin¹, Patrick Belisle⁴, Lawrence Joseph⁴

¹University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, ²Research Institute for Tropical Medicine, Manila, Philippines, ³Brown University, Providence, RI, United States, ⁴McGill University, Montreal, QC, Canada

963**RECONSIDERATION OF THE ROLE OF WATER BUFFALOES AS RESERVOIR HOSTS OF SCHISTOSOMIASIS JAPONICA IN THE PHILIPPINES**

A. Lee Willingham¹, Ernesto Balolong², Tomas Fernandez³, Helene Carabin⁴, Stephen T. McGarvey⁵, Remigio Olveda²

¹International Livestock Research Institute, Nairobi, Kenya, ²Research Institute of Tropical Medicine, Alabang, Philippines, ³Veterinary Faculty, Leyte State University, Baybay, Philippines, ⁴University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, ⁵Brown University, Providence, RI, United States

Viruses – Other**964****SEROPREVALENCE AND EPIDEMIOLOGICAL CHARACTERISTICS OF HUMAN T-LYMPHOTROPIC VIRUS TYPE I AMONG SEX WORKERS IN THE CITY OF IQUITOS BETWEEN APRIL 2003 AND JANUARY 2004**

Moises G. Sihuinchá Maldonado¹, Geny Guzman², Ada Valverde³, Cesar Cabezas³, Pilar Jarana⁴, Norberto Tangoa⁴, Oscar Guerra⁴

¹Loreto Regional Health Department, Iquitos, Peru, ²Universidad Nacional de la Amazonia Peruana, Iquitos, Peru, ³Instituto Nacional de Salud, Peru, Lima, Peru, ⁴Centro de Salud, San Juan, Iquitos, Peru

965**A STUDY OF SUBCLINICAL INFECTION ON HEPATITIS E Xueyi Cao**

ThinkTank Research Center for Health Development, Beijing, China

966

SPECIFIC DETECTION OF WESTERN EQUINE ENCEPHALITIS VIRUS BY REAL-TIME RT-PCR**Martin Pfeffer**¹, Olfert Landt², Richard M. Kinney³, Roman Wölfel¹, Sandra Essbauer¹, Gerhard Dobler¹¹Bundeswehr Institute of Microbiology, Munich, Germany,²TibMolBiol, Berlin, Germany, ³Centers for Disease Control and Prevention, Fort Collins, CO, United States

967

GENOME CHARACTERIZATION OF SMALLPOX VIRUS BY RESEQUENCING GENECHIPS**Irshad M. Sulaiman**¹, Scott Sammons², Alan Frace², Elizabeth Neuhaus², Inger Damon³, Robert M. Wohlhueter²¹Centers for Disease Control and Prevention/National Center for Infectious Diseases/SRP/BCFB/AREF, Atlanta, GA, United States,²Centers for Disease Control and Prevention/National Center for Infectious Diseases/SRP/BCFB, Atlanta, GA, United States,³Centers for Disease Control and Prevention/National Center for Infectious Diseases/DVRD/Poxvirus Section, Atlanta, GA, United States

968

ARBOVIRAL CAUSES OF FEVER IN ECUADOR, BOLIVIA AND PERU, 2000 - 2005**Carolina Guevara**¹, Karla Block¹, Claudio Rocha¹, Zonia Rios¹, Alfredo Huaman¹, Roger Castillo¹, Vidal Felices¹, Cristhopher Cruz¹, Kevin Russel², Tadeusz Kochel², Patrick Blair², Cesar Naquira³, Eduardo Gotuzzo⁴, Luis Suarez⁵, Jorge Vargas⁶, Steve Manock⁷, Narcisa Brito⁷, Cesar Madrid⁸, M. Merizalde⁹, Tadeusz Kochel²¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²U.S. Naval Medical Research Center Detachment, APO AA, AE, United States,³Instituto Nacional de Salud, Ministerio de Salud, Peru,⁴Universidad Peruana Cayetano Heredia, Universidad Peruana Cayetano Heredia, Peru,⁵Oficina General de Epidemiología, Ministerio de Salud, Peru,⁶Centro Nacional de Enfermedades Tropicales, Cenotrop Santa Cruz, Bolivia,⁷Hospital Vozandes, Shell, Ecuador,⁸Hospital Naval, Guayaquil, Ecuador,⁹Hospital Militar, Puyo, Ecuador

969

IMPROVEMENT OF VENEZUELAN EQUINE ENCEPHALITIS VIRUS VACCINE ENVELOPE ANTIGENS BY USING DIRECTED MOLECULAR EVOLUTION**Lesley Dupuy**¹, Michelle Richards¹, Madan Paidhungat², Jack A. Lohre², Maria A. Kuznetsova², Peter Silvera³, Ruxandra Draghia⁴, Robert G. Whalen², Connie Schmaljohn¹, Christopher P. Locher²¹U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD, United States,²Maxygen, Inc., Redwood City, CA, United States,³Southern Research Institute, Frederick, MD, United States,⁴Advisys, The Woodlands, TX, United States

970

HUMAN ILLNESS CAUSED BY CARAPARU AND MURUTUCU (GROUP C) VIRUSES, PERU, 2003 AND 2004**Alfredo Huaman**¹, Roxana Cáceda¹, Juan Perez¹, Roger Castillo¹, Zonia Rios¹, Carolina Guevara¹, Claudio Rocha¹, Karla Block¹, Claudia Zavaleta², Patrick Blair³, Carlos Vidal⁴, Luis Suarez⁵, Cesar Naquira⁶, Eduardo Gotuzzo⁷, James Olson³¹U.S. Naval Medical Research Center Detachment, Lima, Peru,²Universidad Peruana Cayetano Heredia, Universidad Peruana Cayetano Heredia, Peru,³U.S. Naval Medical Research Center Detachment, APO AA, AE, United States,⁴Dirección de Salud, Iquitos, Peru,⁵Oficina General de Epidemiología, Ministerio de Salud, Peru,⁶Instituto Nacional de Salud, Ministerio de Salud, Peru,⁷Universidad Peruana Cayetano Heredia, Lima, Peru

971

INCIDENCE OF ARBOVIRAL ILLNESSES IN SCHOOL CHILDREN, IQUITOS, PERU, 2000-2004**Cecilia Rivera**¹, Carolina Guevara¹, Alfredo Huaman¹, Roger Castillo¹, Roxana Cáceda¹, Juan Perez¹, Claudio Rocha¹, Karla Block¹, Tadeusz Kochel², Patrick Blair², James Olson², Amy Morrison², Tomas Scott³¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²U.S. Naval Medical Research Center Detachment, APO AA, AE, United States,³University of Davis, Davis, CA, United States

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CLINICAL EVALUATION AND VIROLOGIC DIAGNOSIS OF VENEZUELAN EQUINE ENCEPHALITIS IN PERU, JANUARY 2000-FEBRUARY 2005**Zonia Rios**¹, Roger Castillo¹, Silvia Montano¹, Alfredo Huaman¹, Roxana Cáceda¹, Carolina Guevara¹, Claudio Rocha¹, Karla Block¹, Patrick Blair², Tadeusz Kochel², Eduardo Gotuzzo³, Carlos Vidal⁴, Luis Suarez⁵, Cesar Naquira⁶, James Olson²¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²U.S. Naval Medical Research Center Detachment, APO AA, AE, United States,³Universidad Peruana Cayetano Heredia, Lima, Peru,⁴Dirección de Salud, Iquitos, Peru,⁵Oficina General de Epidemiología, Ministerio de Salud, Peru,⁶Instituto Nacional de Salud, Ministerio de Salud, Lima, Peru

973

IN VITRO, MELATONIN TREATMENT DECREASES NITRIC OXIDE LEVELS IN MURINE SPLENOCYTES CULTURED WITH THE VENEZUELAN EQUINE ENCEPHALOMYELITIS VIRUS**Nereida Valero**¹, Eddy Meleán¹, Ernesto Bonilla², Julia Arias¹, Luz Marina Espina¹, Leonor Chacín-Bonilla¹, Yraima Larreal¹, Merybell Maldonado¹, Florencio Añez¹, Germán J. Añez¹¹Instituto de Investigaciones Clínicas "Dr. Américo Negrette", Maracaibo, Venezuela,²Instituto de Investigaciones Clínicas "Dr. Américo Negrette"/Departamento de Neurobiología. Instituto de Investigaciones Biomédicas (INBIOMED), Maracaibo, Venezuela

974

SEROLOGIC EVIDENCE OF EMCV IN RODENTS IN PERU 2004 – 2005

Roger Castillo¹, Christian Albuja¹, Alfredo Human¹, Carolina Guevara¹, Victor Pacheco², Ursula Fajardo³, James Olson¹

¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²Museum of Natural History, University Nac. Mayor de San Marcos, Lima, Peru, ³Museum of Natural History University Nac. Mayor de San Marcos, Lima, Peru

975

HUMORAL IMMUNE RESPONSES OF CONVALESCENT PATIENTS WITH HANTAVIRUS PULMONARY SYNDROME: CHARACTERIZATION OF IGM, IGG, IGA, AND ISOTYPIC IGG SUBCLASSES

Adrienne Pierce, Robert Nofchissey, Sara Arguello, Claire Ralph, Brian Hjelle, Diane Goade

University of New Mexico, Albuquerque, NM, United States

976

REPLICATION OF FLOCK HOUSE VIRUS IN MEDICALLY IMPORTANT ARTHROPODS

Ranjit Dasgupta¹, Susan M. Zietlow¹, Heather M. Free¹, Susan M. Paskewitz², Serap Aksoy³, Lei Shi², James H. Oliver⁴, Bruce M. Christensen¹

¹Dept. of Animal Health and Biomedical Sciences, University of Wisconsin-Madison, Madison, WI, United States, ²Dept. of Entomology, University of Wisconsin-Madison, Madison, WI, United States, ³Dept. of Epidemiology and Public Health, Yale University School of Medicine, New Haven, CT, United States, ⁴Institute of Arthropodology and Parasitology, Georgia Southern University, Statesboro, GA, United States

977

SEROPREVALENCE OF HANTAVIRUS IN CLETHRIONOMYS RUTILUS IN ALASKA USING A MULTIANTIGEN SIA AND RTPCR

Claire C. Ralph, Robert A. Nofchissey, Sara L. Arguello, Diane E. Goade, Joseph A. Cook

University of New Mexico, Albuquerque, NM, United States

978

SEROPREVALENCE AGAINST PUUMALA VIRUS IN DIFFERENT POPULATIONS DURING AN OUTBREAK IN EASTERN BAVARIA, GERMANY

Gerhard Dobler¹, Sandra Essbauer¹, Martin Pfeffer¹, Stefan Rapp², Roman Wölfel¹, Rainer Ulrich³, Wolfgang Blank⁴

¹Bundeswehr Institute of Microbiology, Munich, Germany, ²Bavarian Red Cross Blood Donation Service, Munich, Germany, ³Friedrich Loeffler Institute of Zoonosis Research, Wusterhausen, Germany, ⁴Private Physician, Kirchberg, Germany

ACMCIP Abstracts – Molecular, Cellular and Immunoparasitology

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CME/Courses Committee Meeting

Adams

Wednesday, December 14

12:15 – 1:15 p.m.

Exam Executive Committee Meeting

Edison

Wednesday, December 14

12:15 – 1:15 p.m.

Meet the Professors 113**Meet the Professors D: It's the Singer, Not the Song: How to Give an Effective Medical and Scientific Presentation**

Supported with funding from GlaxoSmithKline

Lincoln East

Wednesday, December 14

12:15 – 1:15 p.m.

This session will explore how science, levity and personal anecdotes combine for a dynamic and engaging presentation.

PRESENTER

Jay Keystone

Toronto Hospital, Toronto, ON, Canada

Mid-Day Session Attendees:

Pick up a box lunch in the exhibit hall to bring to your session.

Mid-Day Session 114**History of Medicine: Yellow Fever (Movie)**

Lincoln West

Wednesday, December 14

12:15 – 1:15 p.m.

This 40-minute film relates the expedition undertaken in 1954 by Richard Moreland Taylor and young scientists Herbert Hurlbutt and Telford H. Work, all working under the auspices of the Rockefeller Foundation at NAMRU-3, Cairo, Egypt. The purpose of this expedition was to evaluate Yellow Fever endemicity following the severe outbreak which struck the secluded Nuba populations in 1942. This film deals essentially with the different habitats conducive to the maintenance of a Yellow Fever transmission cycle. It starts with the DC3 flight planning over the Nubian desert, then Khartoum, with a striking view of the White Nile/Blue Nile junction under the bridge of Ombdurnam. There is a brief sequence on Khartoum, then some insight about the logistics of this trip, which is by train (steam locomotive) up to El Obeid, and then over land up to the Bhar El Arab at the Southern edge of Sudan. As the team goes from village to village, Work lingers on the customs and lifestyle of both the Nuba and the Dinka in the South. There is a glimpse of the Galagos and other primates which might be involved as a reservoir for the virus. The emphasis is on habitats as a determinant of possible virus endemicity: from short grass/Acacia savannah, to the isolated hillocks in the Nuba mountains, the Southern Lakes where the Baggarra and their cattle migrate, and finally the lush high grass Savannah and broad leaf trees of the South. This is probably one of the rare instances where one will see Dr. Taylor bleeding the Nuba children, and a very young Telford Work doing an autopsy of a Guenon. This film covers landscapes and people, and provides an insight about what it was to work in Africa in 1954.

Mid-Day Session 115**PubMed and HINARI: Searching and Getting the Articles You Want***Jefferson East*

Wednesday, December 14 12:15 – 1:15 p.m.

PubMed is a Web interface enabling the users to search MEDLINE, the U.S. National Library of Medicine's premier bibliographic database covering the fields of medicine, nursing, dentistry, veterinary medicine, the health care system, and the pre-clinical sciences. MEDLINE contains bibliographic citations and author abstracts from more than 4,800 biomedical journals published in the United States and 70 other countries. Coverage is worldwide, but most records are from English-language sources or have English abstracts. Health Internetwork is a partnership between the World Health Organization and several major biomedical publishers providing registered institutions in certain developing countries free full text access to more than 3000 scientific journals. Attendees will learn the basics and some advanced techniques of searching PubMed and retrieving the full text article online through PubMed free full text filter, PubMed Central, and especially HINARI. Also, saved search strategies and automated email updates with links to full text for HINARI via MyNCBI will be introduced. Additional instructional CDs will be provided to all attendees during the session or at the NCBI Exhibit booth. <http://www.healthinternetwork.org/> <http://www.pubmed.gov/>

Chuong Huynh

*National Institutes of Health/NLM/NCBI, Bethesda, MD, United States***Scientific Session 116****HIV in the Tropics***Hemisphere*

Wednesday, December 14 1:30 – 3:30 p.m.

CHAIR

Jean B. Nachega*Johns Hopkins University, Baltimore, MD, United States***Davidson H. Hamer***Boston University, Center for International Health and Development, Boston, MA, United States*

1:30 p.m.

979**MORBIDITY AND MORTALITY AMONG CHILDREN LIVING WITH HIV IN BLANTYRE, MALAWI**

Miriam Laufer¹, Joep J. vanOosterhout², Maria A. Perez², Joseph Kanyangalika³, Feston Thumbā³, Terrie E. Taylor⁴, Christopher V. Plowe¹, Stephen M. Graham⁵

¹University of Maryland, Baltimore, MD, United States, ²University of Malawi College of Medicine, Blantyre, Malawi, ³Blantyre Malaria Project, Blantyre, Malawi, ⁴Michigan State University, E. Lansing, MI, United States, ⁵Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi

1:45 p.m.

980**BURDEN OF HIV/AIDS IN A MEDICAL EMERGENCY SETTING AT MULAGO NATIONAL REFERRAL HOSPITAL, UGANDA**

Daniel J. Kyabayinze, Damalie K. Nakanjako, Moses R. Kamyā, Elly Katabira

Makerere University, Kampala, Uganda

2 p.m.

981**HIGH PREVALENCE OF HIV AND SYPHILIS INFECTION IN A NATIVE COMMUNITY OF THE PERUVIAN AMAZON**

Carol Zavaleta¹, Connie Fernandez², Yadira Valderrama², Kelika A. Konda³, Eduardo Gotuzzo¹

¹Cayetano Heredia University, LIMA, Peru, ²Santa Gema Hospital, Yurimaguas, Peru, ³University of California, Los Angeles, Los Angeles, CA, United States

2:15 p.m.

982**ASSOCIATION OF ENTAMOEBIA HISTOLYTICA/DISPAR WITH CD4 COUNT AMONG HIV/AIDS PATIENTS WITH COMPLAINTS OF DIARRHEA FROM THREE HOPITALS IN ADDIS ABABA, ETHIOPIA****Amha K. Habtemicaheh***Ethiopian Health and Nutrition Research Institute, Addis Ababa, Ethiopia*

2:30 p.m.

983**PREVALENCE AND FACTORS ASSOCIATED WITH FUNCTIONAL ADRENAL INSUFFICIENCY IN CRITICALLY ILL HIV PATIENTS IN MULAGO HOSPITAL**

David B. Meya¹, Elly Katabira¹, Allan Ronald², Marcel A. Otim¹, Robert Colebunders³, Merle Sande⁴

¹Makerere University Medical School Kampala Uganda, Kampala, Uganda, ²Infectious diseases, St. Boniface Hospital, Winnipeg, MB, Canada, ³Infectious disease Institute, Kampala, Uganda, ⁴University of Utah Medicine School, Salt Lake City, UT, United States

2:45 p.m.

984**THE APPLICATION OF HIV-RELATED BIOSAFETY GUIDELINES BY MEDICAL LABORATORY WORKERS IN OYO STATE**

Oladepo Oladimeji, Veronica O. Ogunleye
University of Ibadan, Ibadan, Nigeria

3 p.m.

985

FALSE REACTIVE HIV SEROLOGIC TESTS IN PATIENTS WITH ACUTE MALARIA

Candida Abreu¹, Vicenz Diaz-Brito¹, Carla Monteiro², Fernando Araujo², Regina Pereira², Antonio Mota-Miranda¹
¹Department of Infectious Diseases - Hospital S Joao and School of Medicine, Porto, Portugal, ²Department of Immunohemotherapy - Hospital S Joao and School of Medicine, Porto, Portugal

3:15 p.m.

1099

NEW TOOL FOR *IN VITRO* WORK ON HIV AND LEISHMANIA CO-INFECTION IMMUNOPATHOGENESIS

Sanjay Mehta¹, Zhang Xing-Quan¹, Celsa Spina¹, John Day¹, Robert Schooley¹, Roberto Badaro²
¹University of California at San Diego, San Diego, CA, ²Federal University of Bahia, Bahia, Brazil

Scientific Session 117**Ectoparasite-Borne Diseases II***Military*

Wednesday, December 14 1:30 – 3 p.m.

CHAIR

Wei-Mei Ching*Naval Medical Research Center, Silver Spring, MD, United States***Ivo M. Foppa***University of South Carolina, Columbia, SC, United States*

1:30 p.m.

FROM TICK SPIT TO SPITOMES**Jose Ribeiro***National Institutes of Health, National Institute of Allergy and Infectious Diseases/LPD, Bethesda, MD, United States*

2 p.m.

986

BASIC REPRODUCTIVE NUMBER ESTIMATES FOR DEER TICK-BORNE ZOONOSIS IN THE ATLANTIC NORTHEAST

Ivo M. Foppa¹, Heidi K. Goethert², Andrew Spielman³, Sam R. Telford²

¹Arnold School of Public Health, University of South Carolina, Columbia, SC, United States, ²Tufts University School of Veterinary Medicine, North Grafton, MA, United States, ³Harvard School of Public Health, Boston, MA, United States

2:15 p.m.

987

DEMOGRAPHIC AND GEOGRAPHIC RISK FACTORS AMONG *BABESIA MICROTI* SEROPOSITIVE BLOOD DONORS IN CONNECTICUT

Jonathan J. Trouern-Trend¹, Stephanie T. Johnson¹, Ritchard G. Cable¹, David A. Leiby²
¹American Red Cross, Farmington, CT, United States, ²American Red Cross, Rockville, MD, United States

2:30 p.m.

988

USE OF GIS AND CLUSTER ANALYSIS IN A BLOOD CENTER SETTING TO DEFINE *BABESIA MICROTI* AND *ANAPLASMA PHAGOCYTOPHILUM* HYPERENDEMIC AREAS IN CONNECTICUT

Stephanie T. Johnson¹, Jennifer E. Gill², David A. Leiby², Megan Proctor-Nguyen², Ritchard G. Cable¹
¹American Red Cross, Farmington, CT, United States, ²American Red Cross Holland Laboratory, Rockville, MD, United States

2:45 p.m.

989

EVALUATION OF THE LONG TERM PROTECTIVE EFFICACY AND IMMUNOGENICITY OF A DNA VACCINE PLASMID EXPRESSING THE 47 KDA ANTIGEN OF *ORIENTIA TSUTSUGAMUSHI* AND THE SAFETY OF THIS DNA VACCINE CANDIDATE IN AN OUTBRED MOUSE MODEL

Wei-Mei Ching¹, Todd O. Johnson², Teik-Chye Chan¹, Chien-Chung Chao¹, Hong Ge¹, Guang Xu¹, Ju Jiang¹, Suchismita Chattopadhyay¹, Allen L. Richards¹
¹USUHS, Bethesda, MD and Naval Med Res Ctr, Silver Spring, MD, United States, ²Naval Med Res Ctr, Silver Spring, MD, United States

Symposium 118**Staying on the Correct Path During Clinical Development of Preventive Vaccines: An Overperspective***Monroe East*

Wednesday, December 14 1:30 – 3:15 p.m.

Reviewers from the Office of Vaccines Research and Review (OVRR) will discuss key regulatory issues to consider during clinical development of preventive vaccines. Topics covered will include the administrative process and potential pitfalls of submitting an IND application, the manufacture and characterization of preventive vaccines, and the design of clinical studies, including statistical issues, of preventive vaccines.

CHAIR

Jon R. Daugherty*United States Food and Drug Administration, Rockville, MD, United States*

1:30 p.m.

INTRODUCTION

Jon R. Daugherty
U.S. Food and Drug Administration, Rockville, MD, United States

1:35 p.m.

FILING AN INVESTIGATIONAL NEW DRUG (IND) APPLICATION: THE ADMINISTRATIVE PROCESS AND POTENTIAL PITFALLS

George R. Gentile
United States Food and Drug Administration, Rockville, MD, United States

1:55 p.m.

FROM THE LAB BENCH TO THE CLINIC: REGULATORY ISSUES IN THE MANUFACTURE AND PRECLINICAL TESTING OF NEW PREVENTIVE VACCINES

Sheldon L. Morris
United States Food and Drug Administration, Bethesda, MD, United States

2:15 p.m.

CLINICAL ISSUES TO CONSIDER IN THE DEVELOPMENT OF NEW PREVENTIVE VACCINES

Steve R. Rosenthal
United States Food and Drug Administration, Rockville, MD, United States

2:35 p.m.

USE OF BRIDGING STUDIES IN THE CLINICAL EVALUATION OF PREVENTIVE VACCINES

Ann T. Schwartz
United States Food and Drug Administration, Rockville, MD, United States

2:55 p.m.

STATISTICAL ISSUES TO CONSIDER WHEN DESIGNING CLINICAL TRIALS FOR A NEW VACCINE

Henry S. Hsu
United States Food and Drug Administration, Rockville, MD, United States

Scientific Session 119

Mosquitoes — Vector Biology — Epidemiology III

Monroe West

Wednesday, December 14 1:30 – 3:15 p.m.

CHAIR

Gay Gibson

Chicago, IL, United States

Carlo Costantini

Institut de Recherche pour le Développement, Ouagadougou, Burkina Faso

1:30 p.m.

990

INTRINSIC HOST ODOR PREFERENCES OF *ANOPHELES ARABIENSIS* AND *AN. QUADRIANNULATUS* FROM A REMOTE GAME AREA OF ZIMBABWE

Carlo Costantini¹, Glyn Vale², Federica Santolamazza³, Alessandra della Torre³, Steve Torr²
¹*Institut de Recherche pour le Développement, Research Unit #016 "Population biology and control of insect disease vectors", Ouagadougou, Burkina Faso*, ²*University of Greenwich/Natural Resources Institute, Chatham Maritime, United Kingdom*, ³*Parasitology Unit, Dept. Public Health, University of Rome "La Sapienza", Rome, Italy*

1:45 p.m.

991

AUDITORY INTERACTIONS BETWEEN MALES AND FEMALES OF THE MOSQUITO *TOXORHYNCHITES BREVIPALPIS*

Gabriella Gibson¹, Ian Russell²
¹*Natural Resources Institute, Chatham Maritime, Kent, United Kingdom*, ²*University of Sussex, Falmer, East Sussex, United Kingdom*

2 p.m.

992

IMPACT OF THE DENGUE VECTOR CONTROL SYSTEM (DVCS) ON *Aedes aegypti* POPULATIONS IN IQUITOS, PERU 2004-2005

Amy Morrison¹, Helvio Astete¹, Claudio Rocha², Victor Lopez², Jim Olson², Tadeuz Kochel², Moises Sihuinchu³, Jeff Stancil²
¹*University of California, Davis, CA, United States*, ²*Naval Medical Research Center, Detachment, APO, AE, United States*, ³*Dirección de Salud, Laboratorio Referencial, Iquitos, Peru*

2:15 p.m.

993

AUTOGENY BY *Culex pipiens* GROUP MOSQUITOES IN THE SAN FRANCISCO BAY AREA AND IMPLICATIONS FOR WNV TRANSMISSION

Daniel Strickman¹, Carolyn M. Bahnck², Dina M. Fonseca²
¹*Vector Control District, Santa Clara County, San Jose, CA, United States*, ²*Academy of Natural Sciences, Philadelphia, PA, United States*

2:30 p.m.

994

EFFECTS OF DEFORESTATION ON THE SURVIVAL, REPRODUCTIVE FITNESS AND GONOTROPHIC CYCLE OF *ANOPHELES GAMBIAE* IN WESTERN KENYA HIGHLANDS

Yaw A. Afrane¹, Goufa Zhou², Bernard W. Lawson³, Andrew K. Githeko¹, Guiyun Yan²

¹Kenya Medical Research Institute, Kisumu., Kenya, ²State University of New York at Buffalo, Buffalo, NY, United States, ³Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

2:45 p.m.

995

THE SPECIES-RICH *ANOPHELES ANNULIPES* COMPLEX

Desmond H. Foley, Richard C. Wilkerson

Walter Reed Army Institute of Research, Suitland, MD, United States

3 p.m.

996

GEOGRAPHIC AND ECOLOGIC DISTRIBUTION OF THE MALARIA VECTOR, *ANOPHELES SINENSIS* IN KOREA AND OTHER PARTS OF ASIA

Leopoldo M. Rueda¹, Desmond H. Foley¹, A. Townsend Peterson², Richard C. Wilkerson¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²University of Kansas, Museum of Natural History, Lawrence, KS, United States

Symposium 120
The Pediatric Traveler

Lincoln West

Wednesday, December 14 1:30 – 3:15 p.m.

Millions of children cross international borders each year. International adoptees and migrants pose new challenges for practitioners. How can they best be prepared for travel? What should be done when they return ill? In this symposium, participants will review current pre-travel counsel and interventions, and instructive case studies of post-travel problems will be discussed.

CHAIR

Sheila Mackell

Mountain View Pediatrics, Flagstaff, AZ, United States

1:30 p.m.

PRACTICAL PREPARATION FOR TRAVELING FAMILIES

Karl Neumann

Forest Hills Family Travel and Immunization Center, New York, NY, United States

2:05 p.m.

ILLNESS IN RETURNING CHILD TRAVELERS AND MIGRANTS

William Stauffer

University of Minnesota, Minneapolis, MN, United States

2:40 p.m.

UPDATE ON VACCINATING THE PEDIATRIC TRAVELER

Sheila Mackell

Mountain View Pediatrics, Flagstaff, AZ, United States

Symposium 120A
A Global Database of Antimalarial Drug Effectiveness: It's About Time

Jefferson East

Wednesday, December 14 1:30 – 3:15 p.m.

A small group has been working for about a year to coordinate efforts to create a dynamic open access database that would include current and historical data on clinical efficacy, pharmacokinetics, *in vitro* responses and molecular markers related to drug resistance in *P. falciparum* and *P. vivax*. The speakers in the symposium will summarize their own work in this area and inform attendees how they can join in the effort to create this important resource

CHAIR

Carol H. Sibley

University of Washington, Seattle, WA, United States

Olumide Ogundahunsi

World Health Organization, Geneva, Switzerland

1:30 p.m.

CLINICAL TRIALS OF ANTIMALARIA DRUG EFFICACY: WHAT CAN METANALYSIS TELL US?

Nicholas White

Mahidol University, Bangkok, Thailand

1:55 p.m.

MOLECULAR MARKERS: TOOLS FOR UNDERSTANDING SELECTION FOR DRUG RESISTANCE IN AFRICAN *P. FALCIPARUM* POPULATIONS

Cally Roper

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

2:25 p.m.

SURVEILLANCE ON A GLOBAL SCALE

Dennis E. Kyle

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

2:50 p.m.

THE MIM NETWORK AS A PROTOTYPE FOR A COMMON DATABASE

Olumide A. Ogundahunsi
World Health Organization, Geneva, Switzerland

Symposium 121

Japanese Encephalitis: Defining Disease Burden and New Tools for Diagnosing Disease

Jefferson West

Wednesday, December 14 1:30 – 3:15 p.m.

The endemic area for JE has been defined for many years, however, the actual burden of disease for JE remains poorly defined in many parts of Asia. Many countries, although considered endemic, have no data on disease transmission so the extent of the problem still eludes us. This symposia will give new data from activities related to defining the disease burden of JE disease in endemic countries. We will introduce new surveillance data including information from sites where JE cases had not been previously seen. We also will introduce new tools and techniques that are expanding access to diagnostics in the field, even in poor rural settings in Asia. All of this information is leading to a better understanding of JE disease in Asia and how to control it.

CHAIR

Julie Jacobson

PATH, Seattle, WA, United States

Lyle Petersen

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

1:30 p.m.

JAPANESE ENCEPHALITIS IN INDONESIA: AN EMERGING ENDEMIC DISEASE

Agus Suwandono
National Institute of Health Research and Development, Jakarta, Indonesia

1:50 p.m.

ALL CAUSE ENCEPHALITIS STUDIES IN THAILAND: JAPANESE ENCEPHALITIS IN A COUNTRY WITH UNIVERSAL JE IMMUNIZATION

Sonja Olsen
Centers for Disease Control and Prevention, Bangkok, Thailand

2:10 p.m.

ENCEPHALITIS SURVEILLANCE IN BANGLADESH: JAPANESE ENCEPHALITIS REDISCOVERED

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

2:30 p.m.

SIMPLIFIED DIAGNOSTICS FOR JE DETERMINATION: A HEAD-TO-HEAD COMPARISON OF 3 IGM ELISA KITS

Robert Gibbons
Armed Forces Research Institute for Medical Sciences, Bangkok, Thailand

2:50 p.m.

FIELD EXPERIENCE OF EXPANDING ACCESS TO JE DIAGNOSTICS: THE USE OF FILTER PAPER FOR SAMPLE COLLECTION IN INDONESIA

Vanda Moniaga
PATH, Jakarta, Indonesia

Symposium 122

Polymicrobial Diseases in the Tropics

Georgetown East

Wednesday, December 14 1:30 – 3:15 p.m.

Within the last few years, the concept that many diseases often called polymicrobial diseases can be etiologically linked to infection by more than one pathogen has been gaining more attention and awareness. Although much of the worlds population are infected with parasitic, viral and bacterial pathogens, the consequences to the host immune response following co-infection and what polymicrobial diseases result from these infections remain largely unstudied. In this symposium, we will explore the interaction between several pathogens and their potential link to polymicrobial diseases.

CHAIR

Rosemary Rochford

SUNY Upstate Medical University, Syracuse, NY, United States

Ann M. Moormann

Case Western Reserve University, Cleveland, United States

1:30 p.m.

INTERACTIONS BETWEEN MALARIA AND EPSTEIN-BARR VIRUS: CLUES TO THE GENESIS OF BURKITT'S LYMPHOMA

Rosemary Rochford
SUNY Upstate Medical University, Syracuse, NY, United States

2 p.m.

EFFECTS OF SCHISTOSOMIASIS ON IMMUNODEFICIENCY VIRUS CO-INFECTIONS

W. Evan Secor
Centers for Disease Control and Prevention, Atlanta, GA, United States

Wednesday, December 14

2:25 p.m.**MALARIA, CCR5 AND HIV MOTHER-TO-CHILD TRANSMISSION**

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

2:50 p.m.**MYCOBACTERIAL/HELMINTH CO-INFECTIONS: LESSONS LEARNED FROM BOTH POPULATION AND LABORATORY-BASED STUDIES**

Thomas B. Nutman
National Institutes of Health, Bethesda, MD, United States

Symposium 123

Ecological Approaches to the Study of Tropical Diseases*Georgetown West*

Wednesday, December 14 1:30 – 3:15 p.m.

During the past three decades, unprecedented rates of change in diversity of non-human biota caused by many factors such as deforestation, agricultural intensification, invasions of exotic species, and climate change have coincided with the emergence and reemergence of many infectious diseases, especially in the tropics. While a descriptive understanding of some examples exists, there is little mechanistic understanding of basic ecological principles that may regulate infectious disease emergence. Recently, advances have been made in the ability to analyze and model biocomplexity and ecological dynamics, and to evaluate spatial and temporal aspects of environmental change. Combined with improvements in the understanding of pathogen and vector molecular biology, as well as host defense, these advances have resulted in improvements in our understanding of epidemiology and transmission patterns of several tropical and emerging diseases. This symposium will highlight four projects that take a variety of ecological approaches to study parasitic and viral tropical diseases.

CHAIR

Scott C. Weaver

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

Joshua Rosenthal

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

Samuel M. Scheiner

Division of Environmental Biology National Science Foundation, Arlington, VA

1:30 p.m.**SCHISTOSOMIASIS: TURNING ECOLOGY INTO POLICY**

Charles King
Case Western Reserve University, Cleveland, OH, United States

1:55 p.m.**LAND COVER CHANGES AND ECHINOCOCCOSIS TRANSMISSION IN CHINA**

Patrick Giraudoux
University of Franche-Comte, Besancon, France

2:20 p.m.**ENVIRONMENTAL DETERMINANTS OF HIGHLAND MALARIA IN KENYA**

Mark L. Wilson
University of Michigan, Ann Arbor, MI, United States

2:50 p.m.**ANTHROPOGENIC CHANGE AND EMERGING ZONOTIC PARAMYXOVIRUSES**

Peter Daszak
Consortium for Conservation Medicine, New York, NY, United States

Symposium 124

Chagas Disease: A Silent and Silenced Crisis*International Ballroom East*

Wednesday, December 14 1:30 – 3:15 p.m.

Chagas disease affects up to 18 million people in Latin America; it is a fatal and neglected disease which kills around 50,000 people each year. MSF will present the results of its field experience in Honduras and Bolivia, where we have treated over 900 chagas patients. Through its results, MSF will show that chagas is treatable and that people in Latin America are entitled to access to diagnosis and treatment which is appropriate, safe and effective.

CHAIR

Rachel Kiddell-Monroe

Medecins Sans Frontieres/Doctors Without Borders, Montreal, Quebec, Canada

1:30 p.m.**HUMANITARIAN PERSPECTIVES ON CHAGAS: A REVIEW OF MSF POLICY AND FIELD EXPERIENCE IN BOLIVIA AND HONDURAS**

Luis Villa
Medecins Sans Frontieres/Doctors Without Borders, Barcelona, Spain

2:05 p.m.**AN ANALYSIS OF THE MEDICAL DATA FROM MSF'S PROJECTS IN BOLIVIA AND HONDURAS**

Pedro Albajar
Instituto Fiocruz, Rio de Janeiro, Brazil

2:40 p.m.

THE CASE FOR SIMPLE AND EFFECTIVE RAPID DIAGNOSTIC TESTS: A REVIEW OF DIAGNOSTIC TOOLS AVAILABLE FOR CHAGAS:

Martine Guillerm

Medecins Sans Frontieres/Doctors Without Borders, Paris, France

Scientific Session 125

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) – Immunoparasitology I

Supported with funding from the Burroughs Wellcome Fund

International Ballroom West

Wednesday, December 14 1:30 – 3:15 p.m.

CHAIR

Joseph M. Vinetz

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

Subash Babu

National Institutes of Health, Bethesda, MD, United States

1:30 p.m.

1107

TRACKING THE GENERATION OF THE CD4+ T CELL RESPONSE DURING TOXOPLASMOSIS

Marion Pepper, Florence Dzierszinski, David Roos, Christopher A. Hunter

University of Pennsylvania, Philadelphia, PA

1:45 p.m.

997

IMPAIRMENT OF BOTH TH1 AND TH2 RESPONSES IN LYMPHATIC FILARIASIS: A ROLE FOR T CELL EXTRINSIC (TGF β , IDO, CTLA-4, PD-1) AND INTRINSIC (FOXP3 AND E3 UBIQUITIN LIGASES) FACTORS

Subash Babu¹, Carla P. Blauvelt¹, V. Kumaraswami², Thomas B. Nutman¹

¹National Institutes of Health, Bethesda, MD, United States, ²TRC, Chennai, India

2 p.m.

998

HELMINTH INFECTION INDUCES A PULMONARY ENVIRONMENT THAT DAMPENS ALLERGEN-INDUCED HYPERREACTIVITY

Joshua Reece, Mark Siracusa, Alan Scott

Johns Hopkins University, Baltimore, MD, United States

2:15 p.m.

1108

GENETIC DIFFERENCES IN HOST SUSCEPTIBILITY OF MICE TO *LEISHMANIA MEXICANA* REVEALED IN A LOW DOSE EAR INFECTION MODEL

Lucia Rosas, Tracy Keiser, Joseph Barbi, Alecia Septer, Jennifer Kaczmarek, Abhay R. Satoskar

The Ohio State University, Columbus, OH

2:30 p.m.

999

IL-21 RECEPTOR DEFICIENCY DECREASES TH2 RESPONSES FOLLOWING HELMINTH INFECTION

John T. Pesce¹, Mallika Kaviratne Kaviratne¹, Allen W. Cheever², Deborah A. Young³, Mary Collins³, Michael J. Grusby⁴, Joseph F. Urban⁵, Thomas A. Wynn¹

¹National Institutes of Health/National Institute of Allergy and Infectious Diseases/LPD, Bethesda, MD, United States, ²Biomedical Research Institute, Rockville, MD, United States, ³Wyeth Research, Cambridge, MA, United States, ⁴Department of Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, United States, ⁵Nutrient Requirements and Functions Laboratory, Beltsville Human Nutrition Research Center, U.S. Department of Agriculture, Beltsville, MD, United States

2:45 p.m.

1000

A NOVEL PRO-INFLAMMATORY T CELL SUBSET MEDIATES HIGH PATHOLOGY IN SCHISTOSOMIASIS

Laura I. Rutitzky, Jessica R. Lopes da Rosa, Miguel J. Stadecker

Tufts University School of Medicine, Boston, MA, United States

3 p.m.

1001

STAT-1 DEFICIENCY INCREASES HOST RESISTANCE AND REDUCES HEPATIC IMMUNOPATHOLOGY DURING VISCERAL LEISHMANIASIS

Abhay Satoskar, Lucia Rosas, Anjali Satoskar, Joseph Barbi, Tracy Pappenfuss, Tracy Keiser, Joan Durbin

Ohio State University, Columbus, OH, United States

Coffee Break

Exhibit Hall

Wednesday, December 14

3:15 – 3:45 p.m.

Scientific Session 126

Malaria — Biology and Pathogenesis II

Military

Wednesday, December 14 3:45 – 5:30 p.m.

CHAIR

D. Channe Gowda

Pennsylvania State University College of Medicine, Hershey, PA, United States

Johanna P. Daily

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

3:45 p.m.

1002

DEVELOPMENT OF MATURE *PLASMODIUM FALCIPARUM* LIVER STAGE PARASITES IN MICE CONTAINING CHIMERIC HUMAN LIVERS

John B. Sacchi¹, Uzma Alam¹, Donna Douglas², Jamie Lewis², D. Lorne Tyrrell², Abdu F. Azad¹, Norman M. Kneteman²

¹University of Maryland School of Medicine, Baltimore, MD, United States, ²University of Alberta, Edmonton, AB, Canada

4 p.m.

1003

CEREBRAL MALARIA (CM) ASSOCIATED BLOOD-BRAIN BARRIER (BBB) APOPTOSIS

Henry B. Armah¹, Vincent C. Bond¹, Zuzana Kucerova¹, Kiantra Ramey¹, Bismark Y. Sarfo², Richard K. Gyasi³, Andrew A. Adjei³, Micheal D. Wilson², Daniel Y. Boakye², Yao Tettey³, Edwin K. Wiredu³, Jonathan K. Stiles¹

¹Morehouse School of Medicine, Atlanta, GA, United States, ²Noguchi Memorial Institute for Medical Research, Accra, Ghana, ³University of Ghana Medical School, Accra, Ghana

(ACMCIP Abstract)

4:15 p.m.

1004

PLATELETS POTENTIATE BRAIN ENDOTHELIAL ALTERATIONS INDUCED BY *PLASMODIUM FALCIPARUM*-PARASITISED RED BLOOD CELLS

Samuel C. Wassmer¹, Brian de Souza², Valéry Combes³, Francisco J. Candal⁴, Irène Juhan-Vague⁵, Georges E. Grau³

¹Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ²Department of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, London, United Kingdom, ³CNRS UMR6020, IFR 48, Faculty of Medicine, Université de la Méditerranée, Marseille, France, ⁴Centers for Disease Control and Prevention, National Centre for Infectious Diseases, Atlanta, GA, United States, ⁵Laboratoire d'Hématologie, Hémostase, Fibrinolyse et Pathologie Vasculaire, INSERM UMR 626, IFR 125, Faculty of Medicine, Université de la Méditerranée, Marseille, France

(ACMCIP Abstract)

4:30 p.m.

1005

PLASMODIUM INFECTED ERYTHROCYTES ACTIVATE HUMAN BRAIN MICROVASCULAR ENDOTHELIAL CELLS

Monique F. Stins¹, Abhai Tripathi², David Sullivan²

¹Johns Hopkins SOM, Baltimore, MD, United States, ²Johns Hopkins School of Public Health, Baltimore, MD, United States

4:45 p.m.

1006

FRAP, A NOVEL *PLASMODIUM FALCIPARUM* PROTEIN INVOLVED IN MALARIA PATHOGENESIS

Rana Nagarkatti¹, Dewal Jani¹, Rana Chattopadhyay², Patricia de la Vega², **Dharmendar Rathore**¹

¹Virginia Bioinformatics Institute, Blacksburg, VA, United States, ²Naval Medical Research Center, Silver Spring, MD, United States

5 p.m.

1007

USE OF A HETERODUPLEX TRACKING ASSAY TO DETECT MULTIPLE *P.FALCIPARUM* INFECTIONS IN PREGNANT MALAWIANS

Jesse J. Kwiek¹, Alisa P. Alker¹, Linda Kalilani¹, Innocent Mofolo², Ella Nkhoma¹, Stephen Rogerson³, Steven R. Meshnick¹

¹UNC-Chapel Hill, Chapel Hill, NC, United States, ²UNC-Malaria Project, Blantyre, Malawi, ³University of Melbourne, Melbourne, Australia

5:15 p.m.

1008

ASSOCIATIONS BETWEEN DEFINED POLYMORPHIC VARIANTS IN THE PFRH LIGAND FAMILY AND THE INVASION PATHWAYS USED BY *P. FALCIPARUM* FIELD ISOLATES FROM BRAZIL

Cheryl A. Lobo¹, Marilis Rodriguez¹, Claudio J. Struchiner², Mariano G. Zalis³, Sara Lustigman¹

¹New York Blood Center, New York, NY, United States, ²Brazilian School of Public Health, FIOCRUZ, Rio de Janeiro, Brazil, ³University Hospital, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil

(ACMCIP Abstract)

Symposium 127

Assorted 'Hot Topics' on the Regulation of Preventive Vaccines and Related Biological Products

Monroe East

Wednesday, December 14 3:45 p.m. – 5:30 p.m.

This session will include a discussion of various regulatory topics pertaining to the regulation of preventive vaccines and live biotherapeutic products, including probiotics. These topics will include nonclinical issues pertaining to the safety assessment of preventive vaccines, regulatory considerations in the nonclinical safety assessment of vaccine adjuvants, regulatory pathways to expedite preventive vaccine approvals and regulatory considerations in the development of live biotherapeutic products, including probiotics, for clinical use.

CHAIR

Jon R. Daugherty

United States Food and Drug Administration, Rockville, MD, United States

3:45 p.m.

INTRODUCTION

Jon R. Daugherty

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

3:50 p.m.

SAFETY ASSESSMENT OF PREVENTIVE VACCINES: NONCLINICAL ISSUES

Marion F. Gruber

United States Food and Drug Administration, Rockville, MD, United States

4:15 p.m.

REGULATORY CONSIDERATIONS IN THE NONCLINICAL SAFETY ASSESSMENT OF VACCINE ADJUVANTS

Elizabeth M. Sutkowski

United States Food and Drug Administration, Rockville, MD, United States

4:40 p.m.

REGULATORY PATHWAYS TO EXPEDITE PREVENTIVE VACCINE APPROVALS

Jon R. Daugherty

United States Food and Drug Administration, Rockville, MD, United States

5:05 p.m.

REGULATORY CONSIDERATIONS IN THE DEVELOPMENT OF LIVE BIOTHERAPEUTIC PRODUCTS, INCLUDING PROBIOTICS, FOR CLINICAL USE

Julienne M. Vaillancourt

United States Food and Drug Administration, Rockville, MD, United States

Symposium 128

Insect-Parasite Interactions

Monroe West

Wednesday, December 14 3:45 – 5:30 p.m.

A number of deadly infectious diseases, including malaria and leishmaniasis, require an obligatory insect vector for transmission to occur. Thus, the cycle of the parasites in the vector 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 to better understand parasite-insect vector interactions because such knowledge could lead to the development of novel control strategies. Exciting new discoveries have recently been made in this area of knowledge. 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

3:45 p.m.

COMPARATIVE ANALYSES OF ANOPHELES GAMBIAE DEFENSE RESPONSES TO PLASMODIUM FALCIPARUM AND PLASMODIUM BERGHEI INFECTION

George Dimopoulos

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

4:15 p.m.

TWO PEROXIDASES MEDIATE REFRACTORINESS TO PLASMODIUM INFECTION IN *A. GAMBIAE*

Carolina Barillas-Mury

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

4:40 p.m.

VECTOR COMPETENCE OF SAND FLIES FOR LEISHMANIA: TOWARDS A TRANSMISSION BLOCKING VACCINE

Shaden Kamhawi

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

5:05 p.m.

MOLECULAR INTERACTIONS BETWEEN PLASMODIUM SPOROZOITES AND MOSQUITO SALIVARY GLANDS

Marcelo Jacobs-Lorena

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

Symposium 129

Quantitative Models of Vector-Borne Diseases: The First 100 Years

Lincoln East

Wednesday, December 14 3:45 – 5:30 p.m.

The two-fold purpose of this symposium is to showcase mathematical modeling of vector-borne diseases and to facilitate a scientific dialogue between mathematical modelers and basic scientists and epidemiologists attending the annual ASTMH meeting. The four talks will target a scientific audience not specializing in mathematical modeling and will cover a wide range of topics related to mathematical models of vector-borne diseases, including a historical overview, a general discussion of the basic reproductive number, a discussion of factors affecting this quantity and the issue of scale.

CHAIR

Ivo M. Foppa

Arnold School of Public Health, University of South Carolina, Columbia, SC, United States

3:45 p.m.

A BRIEF HISTORY OF MALARIA MODELS

David L. Smith

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

4:15 p.m.

THE CONCEPT OF THE BASIC REPRODUCTIVE NUMBER OF VECTOR-BORNE DISEASES AND ITS SIGNIFICANCE FOR DISEASE CONTROL

Ivo M. Foppa

Arnold School of Public Health, University of South Carolina, Columbia, SC, United States

4:40 p.m.

THE EFFECT OF DIFFERENT BIOLOGICAL ASSUMPTIONS ON R_0 IN WEST NILE VIRUS-LIKE EPIDEMIOLOGICAL MODELS

Marjorie J. Wonham

Centre for Mathematical Biology University of Alberta, Edmonton, AB, Canada

5:05 p.m.

SCALE IN MODELS OF VECTOR-BORNE DISEASE

Cynthia C. Lord

University of Florida, Vero Beach, FL, United States

Symposium 130

Pediatric Concerns in Tropical Medicine Research

Lincoln West

Wednesday, December 14 3:45 – 5:30 p.m.

Children are the focus of tropical medicine research, yet they have distinct needs and concerns as children that require attention beyond standard research studies. While pediatric subjects have helped us to better understand tropical diseases, what do we know about the impact of these diseases on their well-being? This symposium will review the impact of common infectious diseases on the nutrition, growth, and cognitive development of children in tropical countries. The symposium will conclude with a look at the challenges of implementing the most effective method of infectious disease prevention — immunization.

CHAIR

Miriam K. Laufer

University of Maryland, Baltimore, MD, United States

Chandy C. John

University of Minnesota, Minneapolis, United States

3:45 p.m.

DIARRHEAL DISEASE, GENETICS, GROWTH AND COGNITION: WHAT'S THE CONNECTION?

Richard L. Guerrant

University of Virginia, Charlottesville, VA, United States

4:15 p.m.

EFFECTS OF HELMINTH INFECTIONS ON NUTRITION AND DEVELOPMENT

Jennifer F. Friedman

Brown University, Providence, RI, United States

4:40 p.m.

DOES MALARIA AFFECT THE DEVELOPING BRAIN?

Chandy C. John

University of Minnesota, Minneapolis, MN, United States

5:05 p.m.

PERSISTENCE OF VACCINE-PREVENTABLE DISEASES IN PEDIATRIC POPULATIONS IN DEVELOPING COUNTRIES

Myron M. Levine

Center for Vaccine Development, University of Maryland, Baltimore, MD, United States

Symposium 131

Japanese Encephalitis: The Challenges and Successes of Disease Control and Disability Assessment in the Developing World

Jefferson West

Wednesday, December 14 3:45 – 5:30 p.m.

This symposium will present and discuss recent advances and challenges in the control of JE in Asia. JE is the second vaccine preventable disease in the Flavivirus family after Yellow Fever. As we move towards vaccines for other Flaviviruses like Dengue and West Nile viruses, it is important to evaluate the lessons learned and barriers to access that have affected the uptake of JE. Topics will include an update on JE vaccine development, strategies for JE control, program impact, cost effectiveness of JE immunization, and the challenge of determining the disability following encephalitis.

CHAIR

Julie Jacobson

PATH, Seattle, WA, United States

Lyle Petersen

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

3:45 p.m.

STRATEGIES FOR THE CONTROL OF JE: A FIELD EVALUATION OF HIGH-RISK IMMUNIZATION IN ANDHRA PRADESH, INDIA

Rajshankar Ghosh

PATH, New Delhi, India

4:05 p.m.

JE VACCINES FOR ENDEMIC COUNTRIES: WHAT'S THE SOLUTION FOR DEVELOPING COUNTRIES

Mansour Yaich

PATH, Ferney, France

4:25 p.m.

MAKING SENSE OF DATA AT THE COUNTRY LEVEL: COST-EFFECTIVENESS ANALYSIS AND POLICY DECISIONS, EVIDENCE FROM FOUR ENDEMIC COUNTRIES

Chutima Suraratdecha

PATH, Seattle, WA, United States

4:45 p.m.

A SIMPLE TOOL FOR ASSESSING DISABILITY IN JAPANESE ENCEPHALITIS

Tom Solomon

University of Liverpool, Liverpool, United Kingdom

5:05 p.m.

POST-ENCEPHALITIS DISABILITY DETERMINATION IN THE DEVELOPED AND DEVELOPING WORLD

James J. Sejvar

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

Symposium 133

RBx11160/OZ277 The First Synthetic Trioxolane Antimalarial

Georgetown West

Wednesday, December 14 3:45 – 5:30 p.m.

The symposium will present the data which was used to select the first synthetic peroxide antimalaria to go into clinical development and the Phase I first time in humans data. The plans for the clinical development of this new antimalarial will be presented.

CHAIR

J. C. Craft

Medicines for Malaria Venture, Geneva, Switzerland

Vijay K. Batra

Ranbaxy Laboratories Limited, New Delhi, India

3:45 p.m.

ACTIVITY PROFILE OF SYNTHETIC TRIOXOLANE OF ANTI-MALARIALS

Sergio Wittlin

Swiss Tropical Institute, Basel, Switzerland

4:15 p.m.

SELECTION OF A SYNTHETIC TRIOXOLANE CANDIDATE FOR DEVELOPMENT

William N. Charman

Monash University, Melbourne, Australia

4:40 p.m.

HUMAN SAFETY AND PHARMACOKINETICS OF RBX 11160/OZ 277

Tim Mant

Guy's Drug Research Unit, London, United Kingdom

5:05 p.m.

CLINICAL DEVELOPMENT STRATEGY FOR RBX 11160/OZ 277

Nilanjan Saha

Ranbaxy Laboratories Limited, New Delhi, India

Scientific Session 135

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP) — Immunoparasitology II

Supported with funding from the Burroughs Wellcome Fund

International Ballroom West

Wednesday, December 14 3:45 – 5:30 p.m.

CHAIR

John H. Adams

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

Stuart J. Kahn

Infectious Disease Research Institute, Seattle, WA, United States

3:45 p.m.

1109

REDUCED TH1 CELL DEVELOPMENT FOLLOWING INFECTION WITH *LEISHMANIA MEXICANA*

Alice Hsu¹, Phillip Scott²

¹University of Pennsylvania, Philadelphia, PA; ²University of Pennsylvania, Philadelphia, PA

4 p.m.

1009

LIVE MICROFILARIAE OF *BRUGIA MALAYI* INDUCE CELL DEATH IN DENDRITIC CELLS THROUGH A TRAIL-DEPENDENT MECHANISM

Roshanak Tolouei Semnani¹, Françoise Meylan², Julia K. Gilden¹, Joseph Kubofcik¹, Richard Siegel², Thomas B. Nutman¹

¹National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²NIAMS, National Institutes of Health, Bethesda, MD, United States

4:15 p.m.

1010

A NATURALLY OCCURRING STRAIN OF *LEISHMANIA MAJOR* WHICH IS LACKING SIDE CHAIN GALACTOSE RESIDUES ON PHOSPHOGLYCANS REVEALS A ROLE FOR THE IMMUNE RESPONSE TO THE PRESENCE OF SUGARS

Charles Anderson¹, Steve M. Beverley², David L. Sacks¹

¹National Institute of Allergy and Infectious Diseases/National Institutes of Health, Bethesda, MD, United States, ²Washington University School of Medicine, St. Louis, MO, United States

4:30 p.m.

1011

LEISHMANIA SPECIES SELECTIVELY PRIME HUMAN DENDRITIC CELLS FOR INTERLEUKIN-12 PRODUCTION

Asha Jayakumar, Mary Ann McDowell

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

4:45 p.m.

1012

REGULATORY T CELL FUNCTION IN TANZANIAN INFANTS VARIES ACCORDING TO MATERNAL GRAVIDITY AND PLACENTAL MALARIA STATUS AT DELIVERY

Sanders K. Chai¹, Michal Fried¹, Theonest Mutabingwa², Patrick Duffy³

¹Mother Offspring Malaria Study, Seattle Biomedical Research Institute, Seattle, WA, United States, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³Walter Reed Army Institute of Research, Silver Spring, MD, United States

5 p.m.

1013

ROLE OF G α 12 SIGNALING DURING THE PROTECTIVE ADAPTIVE IMMUNE RESPONSE AGAINST *STRONGYLOIDES STERCORALIS* INFECTION IN MICE

Udaikumar M. Padigel¹, James J. Lee², David Abraham¹

¹Thomas Jefferson University, Philadelphia, PA, United States, ²Mayo Clinic, Scottsdale, AZ, United States

5:15 p.m.

1014

NKT CELL FUNCTION DURING *TRYPANOSOMA CRUZI* INFECTION

Stuart J. Kahn, Malcolm S. Duthie, Maria F. Kahn, Maria White

Infectious Disease Research Institute, Seattle, WA, United States

Poster Session B Dismantle

Exhibit Hall

Wednesday, December 14 5:30 – 7 p.m.

Plenary Session IV

International Ballroom Center

Wednesday, December 14 6 – 7:30 p.m.

Presidential Address and Annual Business Meeting

CHAIR

George Hillyer

University of Puerto Rico School of Medicine, San Juan, Puerto Rico

Edward T. Ryan

Massachusetts General Hospital, Boston, MA, United States

6 p.m.

INTRODUCTION

Duane Gubler

Asia-Pacific Institute of Tropical Medicine, Honolulu, HI, United States

6:15 p.m.

VIROLOGY AND TROPICAL MEDICINE: THEN, NOW AND WHITHER

Thomas P. Monath

Acambis Inc., Cambridge, MA, United States

6:45 p.m.

ASTMH ANNUAL BUSINESS MEETING

George Hillyer

University of Puerto Rico School of Medicine, San Juan, Puerto Rico

Thursday, December 15

Registration

Concourse Foyer

Thursday, December 15

7 - 10:30 a.m.

Symposium 136

Into the Woods: the Ecology and Natural History of Zoonotic Poxviruses

Monroe East

Thursday, December 15

8 - 9:45 a.m.

Orthopox viruses, within family Poxviridae, have a worldwide distribution and include multiple important pathogens of humans and other animals. Such viruses include variola (the agent that caused smallpox), monkeypox, vaccinia and cowpox viruses. Variola virus was historically responsible for more human fatalities than perhaps any other known viral pathogen. Despite this, the natural history, ecology, and evolutionary origins of most species within this genus are incompletely understood. Orthopox viruses have recently been implicated as sources of emerging human and livestock disease in Brazil and Africa, as (imported) agents of human and companion animal infections in the US, and as zoonotic components of rodent populations in Europe. This session will assemble an international panel of researchers who will present selected topics pertinent to bettering our understanding of the natural histories and ecologies of mammalian poxviruses.

CHAIR

Russell Regnery

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

Darin S. Carroll

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

8 a.m.

RABBITS AND POXVIRUSES: AN EVOLUTIONARY TALE

Thomas Yuill

University of Wisconsin, Madison, WI, United States

8:25 a.m.

COWPOX — A MODEL ZONOSIS

Malcolm Bennett

Faculty of Veterinary Science, University of Liverpool, Liverpool, United Kingdom

8:50 a.m.

GENETIC DIVERSITY OF VACCINIA VIRUS STRAINS ISOLATED FROM OUTBREAKS IN BRAZIL

Erna Gessien Kroon

Universidade Federal de Minas Gerais, Laboratório de Virus, Departamento de Microbiologia, Belo Horizonte, Brazil

9:15 a.m.

THE NATURAL HISTORY AND ECOLOGY OF ORTHOPOXVIRUSES

Darin S. Carroll

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

Symposium 137

The *Anopheles Gambiae* Genome: What Has It Taught So Far?

Monroe West

Thursday, December 15

8 - 9:45 a.m.

The complete *Anopheles gambiae* genome sequence was published in 2002. In this symposium we examine how the genome has been used by researchers to provide new insights into the biology of this important malaria vector and to explore new ways that it may be utilized in the future. Topics include the mosquito immune system, discovery of novel targets for the development of new insecticides, the genetics of insecticide resistance and insights into the basic evolutionary biology of this species.

CHAIR

Gregory C. Lanzaro

University of California, Davis, CA, United States

George Dimopoulos

Johns Hopkins University, Baltimore, United States

8 a.m.

POST GENOME SEQUENCE ANOPHELES GAMBIAE TRANSCRIPTOMIC ANALYSES

George Dimopoulos

Johns Hopkins University, Baltimore, MD, United States

8:30 a.m.

SYSTEMS BIOLOGY OF THE MOSQUITO INNATE IMMUNITY: NEGATIVE AND POSITIVE INTERACTIONS WITH THE MALARIA PARASITEGeorge K. Christophides
European Molecular Biology Lab, Heidelberg, Germany

8:55 a.m.

PROGRESS TOWARDS A SPECIFIC MICROARRAY FOR DETECTING INSECTICIDE RESISTANCE IN FIELD POPULATIONS OF MALARIA VECTORSHilary Ranson
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

9:20 a.m.

GENOMIC ISLANDS OF SPECIATION IN *ANOPHELES GAMBIAE*Thomas Turner
*University of California, Davis, CA, United States***Scientific Session 138****Flavivirus IV — West Nile Virus***Lincoln East*

Thursday, December 15 8 – 9:45 a.m.

CHAIR

Robert B. Tesh*University of Texas Medical Branch, Galveston, TX, United States***Ted C. Pierson***National Institutes of Health, Bethesda, MD, United States*

8 a.m.

1015

MORPHOLOGICAL AND CYTOPATHOLOGICAL CHANGES ASSOCIATED WITH WEST NILE VIRUS REPLICATION IN TARGET TISSUES OF A *CULEX* MOSQUITO VECTOR**Yvette A. Girard**, Julie Wen, Violet Han, Bradley S. Schneider, Vsevolod Popov, Stephen Higgs
University of Texas Medical Branch, Galveston, TX, United States

8:15 a.m.

1016

PERSISTENT WEST NILE VIRUS INFECTION IN THE GOLDEN HAMSTER (*MESOCRICETUS AURATUS*)**Robert B. Tesh**, Marina Siirin, Hilda Guzman, Amelia P. Travassos da Rosa, Xiaoyan Wu, Tao Duan, Hao Lei, Marcio R. Nunes, Shu-Yuan Xiao
University of Texas Medical Branch, Galveston, TX, United States

8:30 a.m.

1017

A SINGLE NS3 AMINO ACID SUBSTITUTION MODULATES AVIAN VIRULENCE OF THE PATHOGENIC NORTH AMERICAN WEST NILE VIRAL STRAIN**Aaron C. Brault**¹, Stanley A. Langevin¹, Richard A. Bowen², Leslie Woods¹, Nicholas A. Panella³, Claire Y.-H. Huang³, Ann M. Powers³, Barry R. Miller³, Richard M. Kinney³
¹University of CA, Davis, Davis, CA, United States, ²Colorado State University, Fort Collins, CO, United States, ³Centers for Disease Control and Prevention, Fort Collins, CO, United States

8:45 a.m.

1018

TYPE I IFN PROTECTS AGAINST LETHAL WEST NILE VIRUS INFECTION THROUGH PKR AND RNASEL DEPENDENT AND INDEPENDENT MECHANISMS**Melanie A. Samuel**, Kevin Whitby, Anantha Marri, Michael S. Diamond
Washington University School of Medicine, St. Louis, MO, United States

9 a.m.

1019

THE MOLECULAR BASIS OF NEUTRALIZATION BY ANTIBODIES THAT RECOGNIZE DOMAINS I AND II OF WEST NILE VIRUS ENVELOPE PROTEIN**Theodore Oliphant**¹, Grant Nybakken¹, Christopher Nelson¹, Beverley Chen¹, Michael Engle¹, Theodore Pierson², Daved Fremont¹, Michael Diamond¹
¹Washington University School of Medicine, St Louis, MO, United States, ²National Institute of Health, Bethesda, MD, United States

9:15 a.m.

1020

THE DEVELOPMENT OF RAPID AND QUANTITATIVE METHODS FOR MEASURING ANTIBODY-MEDIATED NEUTRALIZATION AND ENHANCEMENT OF WEST NILE VIRUS INFECTIONJessica L. Ess¹, Theodore L. Oliphant², Qing Xu¹, Daved H. Fremont³, Michael S. Diamond⁴, **Ted C. Pierson**¹
¹Viral Pathogenesis Section, Laboratory of Viral Diseases, National Institutes of Health, Bethesda, MD, United States, ²Department of Molecular Microbiology, Washington University School of Medicine, St. Louis, MO, United States, ³Department of Pathology and Immunology, Washington University School of Medicine, St. Louis, MO, United States, ⁴Departments of Medicine, Molecular Microbiology, Pathology and Immunology, Washington University School of Medicine, St. Louis, MO, United States

9:30 a.m.

1021

WEST NILE VIRUS DIAGNOSTIC AND SURVEILLANCE NETWORK IN THE CARIBBEAN

Thierry Lefrancois¹, Kirk Douglas², Dane Coombs³, Nadin Thompson³, Reginal Thomas⁴, Sophie Molia¹, Nathalie Vachier¹, Bradley Blitvich⁵, Dominique Martinez¹

¹CIRAD, Petit Bourg, Guadeloupe, ²University of the West Indies, Bridgetown, Barbados, ³University of the West Indies, Port-of-Spain, Trinidad and Tobago, ⁴Veterinary Services, Roseau, Dominica, ⁵Colorado State University, Fort Collins, CO, United States

Scientific Session 139**Helminths I**

Lincoln West

Thursday, December 15

8 - 9:45 a.m.

CHAIR

Mark Eberhard

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

Peter M. Schantz

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

8 a.m.

1022

A TARGETED FUNCTIONAL GENOMIC ASSESSMENT OF LOCAL AND SYSTEMIC RESPONSES TO *TRICHURIS SUIS* INDICATES RESISTANCE OR SUSCEPTIBILITY TO ADULT WORM INFECTION

Joseph F. Urban, Ethiopia Beshah, Eudora Jones, Harry Dawson

United States Department of Agriculture, Beltsville Human Nutrition Research Center, Nutrient Requirements and Functions Laboratory, Beltsville, MD, United States

(ACMCIP Abstract)

8:15 a.m.

1023

ALTERNATIVELY ACTIVATED MACROPHAGES ACCUMULATE AT THE HOST: PARASITE INTERFACE AND CONTRIBUTE TO PROTECTION AGAINST A NEMATODE PARASITE

Robert M. Anthony¹, Joseph F. Urban², Farhang Alem³, Hossein Hamed³, Nico Van Rooijen⁴, William C. Gause³

¹USUHS, Bethesda, MD, United States, ²USDA, Beltsville, MD, United States, ³UMDNJ, Newark, NJ, United States, ⁴Vrije Universiteit, Amsterdam, Netherlands Antilles

(ACMCIP Abstract)

8:30 a.m.

1024

PROTEINS SECRETED BY *TRICHINELLA SPIRALIS* ALTER NUCLEOTIDE-INDUCED MIGRATION OF DENDRITIC CELLS

Sonja Kock, Kleoniki Gounaris

Imperial College London, London, United Kingdom

(ACMCIP Abstract)

8:45 a.m.

1025

IDENTIFICATION OF POTENTIAL MEDIATORS OF NURSE CELL TRANSFORMATION FROM *TRICHINELLA SPIRALIS*

David B. Guiliano, K. Gounaris, M. E. Selkirk

Imperial College London, London, United Kingdom

9 a.m.

1026

HOOKWORMS AND THE ALLERGIC RESPONSE TO HOUSE DUST MITES: CLINICAL AND IMMUNOLOGICAL ANALYSES

Prema Arasu, Rita C. Simoes, Hilary Jackson

North Carolina State University, Raleigh, NC, United States

(ACMCIP Abstract)

9:15 a.m.

1027

ABROGATION OF ALLERGIC INFLAMMATION BY *ASCARIS SUUM* PSEUDOCELOMIC FLUID (PCF)

Andrea M. Keane-Myers¹, Joseph Urban², Hillary Norris¹, Virgilio Bundoc¹, Agnieszka Boesen¹, Brittany Wetzel¹

¹National Institutes of Health, Rockville MD, MD, United States,

²USDA, Beltsville, MD, United States

9:30 a.m.

1028

INFLUENCE OF HELMINTH INFECTIONS ON THE CLINICAL COURSE AND IMMUNE RESPONSE OF CUTANEOUS LEISHMANIASIS PATIENTS INFECTED WITH *L. BRAZILIENSIS*

Seth O'Neal¹, Luiz Henrique Guimarães², Paulo Machado², Leda Alcantara³, Dan Morgan⁴, Sara Passos², Edgar Carvalho²

¹Oregon Health and Sciences University, Portland, OR, United States,

²Hospital Universitario Professor Edgard Santos, Salvador, Brazil,

³Universidade da Bahia, Salvador, Brazil, ⁴Weill Medical College of Cornell University, New York, NY, United States

(ACMCIP Abstract)

Scientific Session 140

Malaria — Vaccines I

Jefferson East

Thursday, December 15

8 – 9:45 a.m.

CHAIR

Martha Sedegah

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

Heng Wang

Peking Union Medical College, Beijing, China

8 a.m.

1029

WHEAT GERM CELL-FREE SYSTEM: A POWERFUL TOOL TO IDENTIFY NOVEL VACCINE CANDIDATES BASED ON THE *PLASMODIUM FALCIPARUM* GENOME DATABASE

Takafumi Tsuboi¹, Satoru Takeo¹, Hideyuki Iriko¹, Ling Jin¹, Eun-Taek Han¹, Osamu Kaneko², Jetsumon Sattabongkot³, Rachanee Udomsangpetch⁴, Tatsuya Sawasaki¹, Motomi Torii², Yaeta Endo¹

¹Cell-Free Science and Technology Research Center, Ehime University, Matsuyama, Ehime, Japan, ²Ehime University School of Medicine, Toon, Ehime, Japan, ³Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁴Faculty of Science, Mahidol University, Bangkok, Thailand

8:15 a.m.

1030

DEVELOPMENT OF AN ADENOVIRUS-VECTORED VACCINE AGAINST MALARIA: EFFECTS OF PROMOTER STRENGTH ON IMMUNOGENICITY AND PROTECTIVE EFFICACY

Denise L. Doolan¹, Maureen E. Stefaniak¹, Duncan McVey², Keith Limbach¹, Damodar ETTYREDDY², Noelle B. Patterson¹, Fe Baraceros¹, Joseph J. Campo¹, C. Richter King², Joseph T. Bruder²

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

²GenVec Inc, Gaithersburg, MD, United States

(ACMCIP Abstract)

8:30 a.m.

1031

IMPROVEMENT OF *PLASMODIUM FALCIPARUM* ERYTHROCYTE MEMBRANE PROTEIN-1 (PFEMP-1) VACCINE ANTIGENS USING DIRECTED MOLECULAR EVOLUTION

Volker Heinrichs¹, Emily Mundorff¹, Jack A. Lohre¹, Leslie L. West¹, Maria A. Kuznetsova¹, Tevis A. Howard², Moses M. Kortok², Kevin Marsh², Morris O. Makobongo³, Xia Liu³, Tracy A. LaClair³, Carole A. Long³, Robert G. Whalen¹, **Christopher P. Locher**¹

¹Maxygen, Inc., Redwood City, CA, United States, ²Kenya Medical Research Institute, Kilifi, Kenya, ³Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

8:45 a.m.

1032

A POLYEPITOPE MALARIA VACCINE RANDOMLY CONSTRUCTED BY EPITOPE SHUFFLING

Qiliang Cai, Gui-Ying Peng, Linyi Bu, Yahui Lin, Heng Wang
Peking Union Medical College, School of Basic Medicine, Beijing, China

(ACMCIP Abstract)

9 a.m.

1033

MSP1₄₂ BASED VACCINES: IMPROVING THE IMMUNOGENICITY OF ALHYDROGEL FORMULATIONS BY THE ADDITION OF CPG 7909

Sarimar Medina, Carole A. Long, Gelu Dobrescu, Joan A. Aebig, Andrew Orcutt, Hong Zhou, Samuel E. Moretz, Louis H. Miller, Allan Saul, Laura B. Martin

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

9:15 a.m.

1034

PROTECTION OF AOTUS NANCYMAI FROM *P. FALCIPARUM* BLOOD-STAGE INFECTIONS FOLLOWING IMMUNIZATION WITH A VACCINE FORMULATION CONTAINING MSP1-P42 AND MONTANIDE ISA51

David E. Clements¹, Teri Wong¹, Axel Lehrer¹, James T. Senda¹, Steven A. Ogata¹, Danielle N. DeSonier¹, David Waller¹, Tom Humphreys¹, George Hui², Tyrone Williams³, Douglas Nace³, JoAnn Sullivan³, William E. Collins³, John W. Barnwell³

¹Hawaii Biotech, Inc., Aiea, HI, United States, ²Dept. of Tropical Medicine, University of Hawaii, Honolulu, HI, United States, ³Div. of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States

9:30 a.m.

1035

AIMING FOR SUSTAINED HIGH-LEVEL ANTIBODY RESPONSES_ FORMULATION OF PFS25 AND PVS25 TRANSMISSION BLOCKING VACCINES

Yimin Wu¹, Aaron P. Miles¹, Lynn Lambert¹, Olga Muratova¹, Andrew Orcutt¹, David Keister¹, Sheila Bello¹, Jetsumon Sattabongkot², Louis Miller¹, Carole Long¹, Allan Saul¹

¹Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ²Armed Force Research Institute of Medical Sciences, Bangkok, Thailand

Symposium 141

8-Aminoquinolines: Past, Present and Future I

Jefferson West

Thursday, December 15 8 – 9:45 a.m.

8-Aminoquinolines are an important class of anti-infective drugs with promising utility against malaria, leishmaniasis and *Pneumocystis carinii* pneumonia (PCP). Their potential use in coccidiosis and trypanosomiasis has also been suggested. Primaquine has been the only drug available for treatment of relapsing malaria, while a few other 8-aminoquinolines are currently under development. 8-Aminoquinolines also show gametocytocidal and sporontocidal actions indicating their promising use in interruption of malaria transmission. Their use in chemoprophylaxis against malaria infection has also been evaluated. The most important safety concerns with these drugs are methemoglobinemia and hemolytic events, particularly in populations with glucose 6-phosphate dehydrogenase deficiencies. Biotransformation mechanisms, which appear to be central to anti-infective and hematological toxicities, are still not well understood. Recent studies have shown potential for development of stereoselective analogs with better efficacy and reduced toxicity. A symposium to discuss the critical issues related to their efficacy, toxicity and recent preclinical and clinical advancements would be a useful forum for advancing the development and utility of this class. This session will focus on use and development of 8-aminoquinolines for treatment and prophylaxis of malaria.

CHAIR

Babu L. Tekwani

National Center for Natural Products Research, University of Mississippi, University, MS, United States

CHAIR

Wilbur K. Milhous

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

Larry A. Walker

National Center for Natural Products Research, University of Mississippi, University, MS, United States

8 a.m.

INTRODUCTION- PRIMAQUINE AND ALTERNATE 8-AMINOQUINOLINES

Wilbur K. Milhous

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

8:15 a.m.

UPDATE ON 8-AMINOQUINOLINE TAFENOQUINE

Mark Fukuda

USA MC, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

8:45 a.m.

DEVELOPMENT OF AN 8-AMINOQUINOLINE (NPC1161) WITH ENANTIOSELECTIVE PHARMACOLOGICAL AND TOXICOLOGICAL PROFILE

Larry A. Walker

National Center for Natural Products Research, School of Pharmacy, University of Mississippi, University, MS, United States

9:15 a.m.

NEW BLOOD SCHIZONTOCIDAL 8-AMINOQUINOLINE ANTIMALARIALS

Rahul Jain

National Institute for Pharmaceutical Education and Research (NIPER), Chandigarh, India

Scientific Session 142

Schistosomiasis III – Epidemiology II

Georgetown East

Thursday, December 15 8 – 9:45 a.m.

CHAIR

Charles H. King

Case Western Reserve University, Cleveland, OH, United States

Jake Curtis

Case Western Reserve University, Cleveland, OH, United States

8 a.m.

1036

FACTORS AFFECTING THE TIME TO INFECTION OR REINFECTION WITH *SCHISTOSOMA HAEMATOBIMUM* AMONG SCHOOL-AGED CHILDREN IN COASTAL KENYA: A SURVIVAL ANALYSIS

Sudtida A. Satayathum¹, Eric M. Muchiri², Davy K. Koech³, Christopher C. Whalen¹, **Charles H. King**¹

¹Case Western Reserve University, Cleveland, OH, United States,

²Division of Vector Borne Diseases, Ministry of Health, Nairobi, Kenya,

³Kenya Medical Research Institute, Nairobi, Kenya

8:15 a.m.

1037

A MULTILEVEL ANALYSIS OF SCHISTOSOMIASIS RISK IN COASTAL KENYA

Melissa K. Van Dyke¹, Charles H. King², Eric M. Muchiri³, Mark L. Wilson¹

¹University of Michigan, Ann Arbor, MI, United States, ²Case

Western Reserve University, Cleveland, OH, United States, ³Division

of Vector-Borne Diseases, Ministry of Health, Nairobi, Kenya

8:30 a.m.

1038

RE-INVESTIGATING THE GLOBAL BURDEN OF DISEASE DUE TO *SCHISTOSOMA JAPONICUM*Julia L. Finkelstein¹, Stephen T. McGarvey², Mark D. Schleinitz³¹Department of Community Health, Brown University, Providence, RI, United States, ²International Health Institute, Department of Community Health, Brown University, Providence, RI, United States, ³Rhode Island Hospital, Providence, RI, United States

8:45 a.m.

1039

A LONGITUDINAL STUDY OF *S. JAPONICUM* INFECTION AND PREGNANCY OUTCOMESJennifer F. Friedman¹, Luz P. Acosta², Daria Manalo², Jemaima Yu², Mary Paz Urbina², Gretchen Langdon¹, Surendra Sharma³, Remigio Olveda², Jonathan D. Kurtis¹¹Brown University, Providence, RI, United States, ²Research Institute of Tropical Medicine, Manila, Philippines, ³Women and Infants Hospital, Providence, RI, United States

9 a.m.

1040

DHEAS PREDICTS RESISTANCE TO INFECTION WITH *S. JAPONICUM*Jonathan D. Kurtis¹, Remigio M. Olveda², Gretchen C. Langdon¹, Haiwei Wu¹, Stephen T. McGarvey¹, Archie O. Pablo², Tjalling Leenstra¹, Mario Jiz², Jennifer F. Friedman¹, Luz P. Acosta²¹Brown University, Providence, RI, United States, ²RITM, Manila, Philippines

9:15 a.m.

1041

THE ECOLOGY OF *BIOMPALARIA* SPECIES AND THEIR ROLE IN THE TRANSMISSION OF *SCHISTOSOMA MANSONI* AT BUTIABA ALONG LAKE ALBERT IN WESTERN UGANDAFrancis Kazibwe¹, Boniface Makanga², Chris Rubaire-Akiiki², John H. Ouma³, Curtis Kariuki⁴, Narcis Kabatereine¹, Mark Booth⁵, Russell Stothard⁶, Birgitte Vennervald⁷, Robert Sturrock⁸¹Ministry of Health, Vector Control Division - Uganda, Kampala, Uganda, ²Makerere University, Kampala, Uganda, ³Maseno University, Via Kisumu, Kenya, ⁴Division of Vector Borne Diseases, Nairobi, Kenya, ⁵Cambridge University, Cambridge, United Kingdom, ⁶Natural History Museum, London, United Kingdom, ⁷DBL Institute for Health Research and Development, Copenhagen, Denmark, ⁸London School of Hygiene and Tropical medicine, London, United Kingdom

9:30 a.m.

1042

IMPROVEMENT OF NUTRITIONAL STATUS AFTER TREATMENT OF *SCHISTOSOMA JAPONICUM*-INFECTED CHILDREN, ADOLESCENTS AND YOUNG ADULTSHannah M. Coutinho¹, Luz P. Acosta², Stephen T. McGarvey¹, Blanca Jarilla², Archie Pablo², Li Su¹, Daria L. Manalo², Remigio M. Olveda², Jonathan D. Kurtis¹, Jennifer F. Friedman¹¹International Health Institute, Brown University, Providence, RI, United States, ²Research Institute of Tropical Medicine, Manila, Philippines**Scientific Session 143****Bacteriology III — Respiratory/Other**

Georgetown West

Thursday, December 15

8 – 9:30 a.m.

CHAIR

LeAnne M. Fox

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

Andre Bafica

National Institutes of Health, Bethesda, MD, United States

8 a.m.

1043

A MULTI-VILLAGE PNEUMONIC PLAGUE OUTBREAK - AMPANOTOKANA, MADAGASCAR, JANUARY 2005Larissa Minicucci¹, Hanitra Rahantarisoa², Jennifer Bracher¹, Rodisse Andrianasolo³, Robin Randriamanantsoa³, Mamy Rakotondrainibe², Martin Schriefer¹, Brook Yockey¹, Jean Randriambeloso³, Jacob Kool¹¹Centers for Disease Control and Prevention, Fort Collins, CO, United States, ²Prospect International S.A.R.L., Antananarivo, Madagascar, ³Ministry of Health and Family Planning, Antananarivo, Madagascar

8:15 a.m.

1044

A MULTI-CENTER OBSERVATIONAL STUDY OF CLINICAL OUTCOME FOLLOWING AMOXICILLIN TREATMENT OF NON-SEVERE PNEUMONIA IN CHILDREN 2-59 MONTHS OF AGELeAnne M. Fox¹, Stanley Thula², Tran Tan Tram³, William B. MacLeod¹, Patricia L. Hibberd⁴, Olivier Fontaine⁵, Donald M. Thea¹, Shamim Qazi⁵¹Center for International Health and Development, Boston University School of Public Health, Boston, MA, United States, ²Department of Pediatrics and Child Health, University of Natal Medical School, Durban, South Africa, ³Pediatric Hospital #1, Ho Chi Minh City, Viet Nam, ⁴Clinical Research Institute, Tufts-New England Medical Center, Boston, MA, United States, ⁵Department of Child and Adolescent Health and Development, World Health Organization, Geneva, Switzerland

8:30 a.m.

1045

INCIDENCE AND CLINICAL CHARACTERISTICS OF ACINETOBACTER INFECTION AMONG CHILDREN < 5 Y/O IN A DHAKA URBAN SLUM

W. Abdullah Brooks, Doli Goswami, Anowar Hossain, Korshed Alam, Kamrun Nahar, Dilruba Nasreen, Noor Ahmed, Robert F. Breiman, Stephen Luby

ICDDR,B: Centre for Health and Population Research, Dhaka, Bangladesh

8:45 a.m.

1046

A UNIQUE SUBSET OF HUMANS B CELLS WHICH RESPONDS TO NEISSERIA MENINGITIDIS PORB

Lisa M. Ganley-Leal, Lee M. Wetzler

Boston University School of Medicine, Boston, MA, United States

9 a.m.

1047

TOLL-LIKE RECEPTOR (TLR)9 REGULATES TH1 RESPONSES AND COOPERATES WITH TLR2 IN MEDIATING OPTIMAL RESISTANCE TO MYCOBACTERIUM TUBERCULOSIS

Andre Bafica, Charles Scanga, Carl Feng, Alan Sher

National Institutes of Health, Bethesda, MD, United States

9:15 a.m.

1048

EARLY AND LATE INFECTION WITH MYCOBACTERIUM TUBERCULOSIS MODULATES THE IMMUNE RESPONSE PATTERN IN TOXOCARIASIS

Fabiani G. Frantz¹, Rogério S. Rosada², Walter M. Turato¹, Camila M. Peres¹, Célio L. Silva², Lúcia H. Faccioli¹

¹*FCFRP/Universidade de São Paulo, Ribeirão Preto, Brazil,*

²*FMRP/Universidade de São Paulo, Ribeirão Preto, Brazil*

(ACMCIP Abstract)

Scientific Session 144

Clinical Tropical Medicine III

International Ballroom East

Thursday, December 15

8 – 9:45 a.m.

CHAIR

Monique Wasunna

Kenya Medical Research Institute, Nairobi, Kenya.

Alan M. Spira

Travel Medicine Center, Beverly Hills, CA, United States

8 a.m.

1049

EFFECTIVENESS OF INSECTICIDE TREATED NETS IN REDUCING ALL-CAUSE MORTALITY AMONG CHILDREN IN SUB-SAHARAN AFRICA: A QUANTITATIVE REVIEW OF FOUR LARGE CLINICAL TRIALS

Katherine B. Goodwin, Lone Simonsen

National Institutes of Health, Bethesda, MD, United States

8:15 a.m.

1050

EFFECT OF HIV INFECTION ON RESPONSE TO CHLOROQUINE PLUS SULPHADOXINE-PYRIMETHAMINE TREATMENT FOR UNCOMPLICATED MALARIA IN UGANDAN PATIENTS

Pauline K. Byakika¹, Edward Ddumba¹, Ann Gasasira¹, Grant Dorsey², Moses Kanya¹

¹*Makerere University, Kampala, Uganda,* ²*University of California San Francisco, California, CA, United States*

8:30 a.m.

1051

SEVERE MALARIA IN CHILDREN UNDER FIVE YEARS IN AREAS WITH LOW, MODERATE AND HIGH TRANSMISSION INTENSITY IN UGANDA

Richard Idro¹, Judith Aloyo², Lam Mayende³, Edward Bitarakwate⁴, Chandy C. John⁵, George W. Kivumbi²

¹*Makerere University/Mulago Hospital, Kampala, Uganda,*

²*Makerere University, Kampala, Uganda,* ³*Masafu Health Center,*

Busia, Uganda, ⁴*Kabale Hospital, Kabale, Uganda,* ⁵*Case Western Reserve University, Cleveland, OH, United States*

8:45 a.m.

1052

USE OF A REFRACTOMETER TO ASSESS THE QUALITY OF ANTIMALARIAL DRUGS COLLECTED IN THE LAO PDR

Michael D. Green¹, Latsamy Vongsack², Ot Manolin², Sivong Sengaloundeth³, Lampheth Khounsaknalath², Chansapha Pamanivong², Ofelia Villalva Rojas¹, Paul N. Newton⁴

¹*US Centers for Disease Control and Prevention, Atlanta, GA,*

United States, ²*Food and Drug Quality Control Center, Ministry of Health,*

Vientiane, Lao People's Democratic Republic, ³*Food and Drug Department, Ministry of Health, Vientiane, Lesotho,*

⁴*Centre for Clinical Vaccinology and Tropical Medicine, Churchill Hospital,*

University of Oxford, UK, Wellcome Trust-Mahosot Hospital-Oxford

Tropical Medicine Research Collaboration, Vientiane, Lao People's

Democratic Republic

9 a.m.

1053

EFFICACY OF MILTEFOSINE (IMPAVIDO®) FOR MUCOCUTANEOUS LEISHMANIASIS IN BOLIVIA

Jaime Soto¹, Julia Toledo¹, Rolando Parra², Margarita Balderrama², Jaime Rea², Ana Gomez³, Jaime Ardiles⁴, Paula Soto¹, Luis Valda⁴, Herbert Sindermann⁵, Gerlind Anders⁶, Jurgen Engel⁶, Jonathan Berman⁷

¹FADER / Cibic, Bogotá, Colombia, ²Proyecto Oscar, Palos Blancos, Bolivia, ³Hospital Local, Palos Blancos, Bolivia, ⁴Hospital de Clinicas, La Paz, Bolivia, ⁵Zentaris AG, Frankfurt, Germany, ⁶Zentaris, AG, Frankfurt, Germany, ⁷ABF, Rockville, MD, United States

9:15 a.m.

1054

A PHASE II DOSE-RISING STUDY OF SITAMAQUINE FOR THE TREATMENT OF VISCERAL LEISHMANIASIS IN KENYA

Monique Wasunna¹, Juma R. Rashid¹, Jane Mbu¹, George Kirigi¹, Hudson Lodenyo¹, Antony J. Sabin², John Horton³, J. Mark Felton²

¹Center for Clinical Research, Kenya Medical Research Institute, Nairobi, Kenya, ²GlaxoSmithKline, Greenford, United Kingdom, ³Liverpool University, Liverpool, United Kingdom

9:30 a.m.

1055

RANDOMIZED PLACEBO CONTROL STUDY WITH ORAL PENTOXIFYLLINE COMBINED WITH PENTAVALENT ANTIMONY IN MUCOSAL LEISHMANIASIS

Paulo Machado¹, Helio Lessa¹, Marcus Lessa¹, Luis Henrique Guimarães¹, Amélia Ribeiro Jesus¹, Warren D. Johnson², **Edgar Marcelino Carvalho**¹

¹Federal University of Bahia, Salvador, Brazil, ²Cornell University, New York, NY, United States

Coffee Break

Exhibit Hall

Thursday, December 15

9:45 – 10:15 a.m.

Scientific Session 145**Mosquitoes — Biochemistry, Molecular Biology and Molecular Genetics II**

Monroe East

Thursday, December 15

10:15 – Noon

CHAIR

Zach N. Adelman

University of California Irvine, Irvine, CA, United States

Stephen L. Dobson

University of Kentucky, Lexington, KY, United States

10:15 a.m.

1056

IMPACT OF PLASMODIUM INFECTION ON THE FITNESS OF TRANSGENIC MOSQUITOES IMPAIRED FOR MALARIA TRANSMISSION

Mauro T. Marrelli, Chaoyang Li, Marcelo Jacobs-Lorena
Johns Hopkins University, Baltimore, MD, United States

10:30 a.m.

1057

POPULATION DYNAMICS OF HERVES TRANSPOSABLE ELEMENT IN ANOPHELES GAMBIAE

Ramanand A. Subramanian¹, Channa Aluvihare¹, Edward Peckham¹, Wilhelmine Meeraus², Peter Atkinson³, Christopher Curtis², Derek Charlwood⁴, David A. O'Brochta¹

¹University of Maryland Biotechnology Institute, College Park, MD, United States, ²London School of Tropical Medicine and Hygiene, London, United Kingdom, ³University of California, Riverside, CA, United States, ⁴Danish Bilharziasis Laboratory, Charlottenlund, Denmark

10:45 a.m.

1058

FEMALE GERMLINE-SPECIFIC EXPRESSION OF TRANSGENES IN AE. AEGYPTI USING THE ENDOGENOUS NANOS CONTROL SEQUENCES

Zach N. Adelman¹, Nijole Jasinskiene², Sedef Onal², Ken E. Olson³, Anthony A. James²

¹Virginia Tech, Blacksburg, VA, United States, ²University of California, Irvine, Irvine, CA, United States, ³Colorado State University, Ft. Collins, CO, United States

11 a.m.

1059

PROGRESS TOWARD MANIPULATING MOSQUITO DISEASE VECTOR POPULATIONS VIA RELEASES OF WOLBACHIA INFECTED MOSQUITOES**Stephen L. Dobson**

University of Kentucky, Lexington, KY, United States
(ACMCIP Abstract)

11:15 a.m.

1060

GENERATION OF ARTIFICIAL WOLBACHIA INFECTIONS IN AEDES MOSQUITO AND MANIPULATION OF POPULATION WITH CYTOPLASMIC INCOMPATIBILITY

Zhiyong Xi, Jeffry L. Dean, Cynthia Khoo, Stephen L. Dobson

University of Kentucky, Lexington, KY, United States

11:30 a.m.

1061

CHARACTERIZATION OF MOSQUITO *OSKAR* ORTHOLOGOUS GENES FOR THE DEVELOPMENT OF A TRANSPOSABLE ELEMENT-BASED GENE DRIVE MECHANISM

Jennifer Juhn, Anthony A. James
University of California, Irvine, CA, United States

11:45 a.m.

1062

DEVELOPING RNAI-BASED TRANSGENIC RESISTANCE AGAINST DENGUE-2 VIRUS IN *Aedes aegypti*

Alexander W. Franz¹, Irma Sanchez-Vargas¹, Zach N. Adelman², Emily A. Travanty¹, Carol D. Blair¹, Barry J. Beaty¹, Anthony A. James², Kenneth E. Olson¹
¹Colorado State University, Fort Collins, CO, United States,
²University of California, Irvine, Irvine, CA, United States

Scientific Session 146

Malaria — Biology and Pathogenesis III

Monroe West

Thursday, December 15 10:15 a.m. – Noon

CHAIR

Sanjai Kumar

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

Rick Fairhurst

National Institutes of Health, Rockville, MD, United States

10:15 a.m.

1063

HEMOGLOBIN C PHENOTYPE ON A NORMAL ERYTHROCYTE BACKGROUND

Graciela Oстера, Rick Fairhurst, Nathaniel Brittain, Thomas Wellem
National Institutes of Health, Rockville, MD, United States
(ACMCIP Abstract)

10:30 a.m.

1064

CLINICAL AND HAEMATOLOGIC INDICES IN *PLASMODIUM FALCIPARUM*-INFECTED CHILDREN WITH THE SICKLE-CELL HAEMOGLOBIN GENE IN WESTERN KENYA

Richard O. Otieno¹, John Michael Ong'echa¹, Collins Ouma¹, Tom Were¹, Chris Keller², E. N. Waindi³, John M. Vulule⁴, Douglas J. Perkins²

¹University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, ²Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, ³Maseno University, Kisumu, Kenya, ⁴Centre for Vector Biology and Control Research, Kisumu, Kenya
(ACMCIP Abstract)

10:45 a.m.

1065

COMPLEMENT RECEPTOR 1 POLYMORPHISMS ASSOCIATED WITH RESISTANCE TO SEVERE MALARIA IN KENYA

Vandana Thathy¹, Joann M. Moulds², Bernard Guyah¹, Walter Otieno¹, Jose A. Stoute³

¹US Army Medical Research Unit-Kenya and the Kenya Medical Research Institute, NAIROBI, Kenya, ²LifeShare Blood Centers, Shreveport, LA, United States, ³The Walter Reed Army Institute of Research, Silver Spring, MD, United States

11 a.m.

1066

ASSOCIATION OF CO-EXISTING ERYTHROCYTE POLYMORPHISMS, OVALOCYTOSIS AND HEMOGLOBIN LEVELS IN MOROBE, PAPUA NEW GUINEA

Sheral S. Patel¹, Svetlana Katsnelson², John C. Reeder³, James W. Kazura²

¹Eastern Connecticut Health Network, Manchester, CT, United States, ²Case Western Reserve University, Cleveland, OH, United States, ³Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea
(ACMCIP Abstract)

11:15 a.m.

1067

DISTINCT HEMATOLOGICAL CHARACTERISTICS OF MALARIAL ANEMIA IN YOUNG CHILDREN PRESENTING AT A RURAL DISTRICT HOSPITAL IN WESTERN KENYA

John Michael Ong'echa¹, Chris Keller², Collins Ouma¹, Tom Were¹, Richard Otieno¹, John M. Vulule³, Richard D. Day⁴, Sandra S. Kaplan⁵, Douglas J. Perkins²

¹University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, ²Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, ³Centre for Vector Biology and Control Research, Kisumu, Kenya, ⁴Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, ⁵University of Pittsburgh Medical Center, Pittsburgh, PA, United States

11:30 a.m.

1068

CHANGES IN HUMAN GENE EXPRESSION DURING UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA**James M. Colborn**¹, Joni Ylostalo¹, Ousmane A. Koita², Ousmane Cissé², Donald J. Krogstad¹¹Tulane University, New Orleans, LA, United States, ²University of Bamako, Bamako, Mali

(ACMCIP Abstract)

11:45 a.m.

1069

VARIATION OF *P. FALCIPARUM* IN VIVO TRANSCRIPTOMES IN PATIENTS WITH MILD AND SEVERE DISEASE**Johanna Daily**¹, Karine G. Le Roch², Dauoda Ndiaye³, Yingyao Zhou², Omar Ndir³, Soulyemane Mboup³, Elizabeth Winzeler⁴, Dyann Wirth¹¹Harvard School of Public Health, Boston, MA, United States, ²Genomics Institute of the Novartis Research Foundation, San Diego, CA, United States, ³Faculty of Medicine and Pharmacy, Cheikh Anta Diop University, Dakar, Senegal, ⁴Department of Cell Biology, The Scripps Research Institute, La Jolla, CA, United States**Scientific Session 147****Flavivirus V***Lincoln East*

Thursday, December 15 10:15 a.m. – Noon

CHAIR

Rebeca Rico-Hesse*Southwest Foundation for Biomedical Research, San Antonio, TX, United States***Timothy H. Burgess***Naval Medical Research Center, Silver Spring, MD, United States*

10:15 a.m.

1070

POTENTIAL DIFFERENCES IN SIGN RECEPTOR UTILIZATION AND NEUTRALIZATION BY AMERICAN AND ASIAN GENOTYPE DENGUE-2 VIRUSES

Nicole C Martin, Tadeusz Kochel, Jorge Pardo, Kevin R Porter, Timothy H Burgess

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

10:30 a.m.

1071

DC-SIGN NEUTRALIZATION ASSAY DEMONSTRATES HIGH SEROTYPE SPECIFICITY WITH PAIRED SERA FROM PRIMARY DENGUE INFECTIONSStephen J. Thomas¹, Jorge Pardo², Nicole C. Martin², Timothy Endy¹, Sharone Green³, Kevin R. Porter², Timothy H. Burgess²¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Naval Medical Research Center, Silver Spring, MD, United States, ³University of Massachusetts Medical School, Worcester, MA, United States

10:45 a.m.

1072

CTL SPECIFIC FOR A NOVEL EPITOPE IN THE DENGUE 1 NS5 PROTEIN ARE DIFFERENTIALLY ACTIVATED BY DENGUE 2 AND DENGUE 3 VARIANT EPITOPES WHICH FUNCTION AS ALTERED PEPTIDE LIGANDS**Allison Imrie**¹, Janet Meeks¹, Zhengshan Zhao¹, Alexandra Gurary¹, Paul Kitsutani², Paul Effler²¹University of Hawaii at Manoa, Honolulu, HI, United States, ²Hawaii State Department of Health, Honolulu, HI, United States

11 a.m.

1073

JAPANESE ENCEPHALITIS VIRUS ENTERS C6/36 MOSQUITO CELLS THROUGH V-ATPASE-DEPENDENT CLATHRIN-MEDIATED ENDOCYTOSISWei-Chun Chai, **Wei-June Chen***Chang Gung University, Tao-Yuan, Taiwan Republic of China*

11:15 a.m.

1074

GENETIC AND BIOLOGICAL DETERMINANTS OF VIRAL DISSEMINATION FROM THE MOSQUITO MIDGUT: YELLOW FEVER VIRUS IN *Aedes aegypti***Kate L. McElroy**, Konstantin A. Tsetsarkin, Yvette A. Girard, Charles McGee, Dana L. Vanlandingham, Stephen Higgs
University of Texas Medical Branch, Galveston, TX, United States

11:30 a.m.

1075

PHYLOGENETIC ANALYSIS BASED ON THE ENVELOPE AND NS5 NUCLEOTIDE SEQUENCES OF AN ILHEUS VIRUS ISOLATE FROM A FEBRILE HUMAN PATIENT IN ECUADOR**Barbara W. Johnson**¹, Vidal Felices², Cristhopher Cruz², Carolina Guevara², James Olson², Tadeusz Kochel²¹Division of Vector-Borne Infectious Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States, ²U.S. Naval Medical Research Center Detachment, Lima, Peru

11:45 a.m.

1076

VIREMIA, MORBIDITY AND MORTALITY OF *P. LEUCOPUS* FOLLOWING POWASSAN VIRUS INOCULATION

Gregory D. Ebel, Kristen A. Bernard, Laura D. Kramer
Wadsworth Center, Slingerlands, NY, United States

Scientific Session 148

Helminths II

Lincoln West

Thursday, December 15 10:15 a.m. – Noon

CHAIR

Mark Eberhard

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

Peter M. Schantz

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

10:15 a.m.

1077

VISCERAL LARVA MIGRANS ASSOCIATED WITH INGESTION OF EARTHWORM: CLINICAL EVOLUTION IN AN ADOLESCENT PATIENT

Peter M. Schantz¹, Antonella Cianferoni², Lynda Schneider², Daniel Brown², Leanne Fox³

¹*Division of Parasitic Diseases, Centers For Disease Control and Prevention, Atlanta, GA, United States*, ²*Division of Immunology, Children's Hospital, Boston, MA, United States*, ³*Center For International Health and Development, Boston University School of Public Health, Boston, MA, United States*

10:30 a.m.

1078

NO ADDITIONAL ADVERSE BIRTH EVENTS FOLLOWING MEBENDAZOLE ADMINISTRATION IN PREGNANCY

Theresa W. Gyorkos¹, Martin Casapia², Renee Larocque¹, Eduardo Gotuzzo³

¹*McGill University, Montreal, PQ, Canada*, ²*Asociacion Civil Selva Amazonica, Iquitos, Peru*, ³*Universidad Peruana Cayetano Heredia, Lima, Peru*

10:45 a.m.

1079

POPULATION-BASED SURVEY OF INTESTINAL HELMINTH INFECTIONS WITH A FOCUS ON TAENIASIS AMONG RESIDENTS OF EL PASO, TEXAS AND CIUDAD JUAREZ, MEXICO

Casey E. Barton¹, Jack Bristol², Lillian Mayberry³, Victor Cardenas², Karen Snowden⁴

¹*University of Texas Health Science Center School of Public Health, Houston, TX, United States*, ²*University of Texas School of Public Health, El Paso Regional Campus, El Paso, TX, United States*, ³*University of Texas El Paso, El Paso, TX, United States*, ⁴*Texas A&M University College of Veterinary Medicine, College Station, TX, United States*

11 a.m.

1080

CYSTICERCOSIS HOTSPOTS SURROUNDING *TAENIA SOLIUM* TAPEWORM CARRIERS

Andres G. Lescano¹, Hector H. Garcia¹, Robert H. Gilman², M. Claudia Guezala³, Victor C. Tsang⁴, Cesar M. Gavidia³, Silvia Rodriguez⁵, Lawrence H. Moulton², Justin A. Green⁶, Carmen Taquiri¹, Armando E. Gonzalez³

¹*Universidad Peruana Cayetano Heredia, Lima, Peru*, ²*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*, ³*Universidad Nacional Mayor de San Marcos, Lima, Peru*, ⁴*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁵*Instituto de Ciencias Neurologicas, Lima, Peru*, ⁶*Imperial College, London, United Kingdom*

11:15 a.m.

1081

COPROANTIGEN DETECTION FOR EARLY AND ACCURATE ASSESSMENT OF TAENIASIS TREATMENT

Javier A. Bustos¹, Silvia Rodriguez¹, Juan Jimenez¹, Andres G. Lescano², Luz Moyano¹, Guillermo Gonzalez¹, James C. Allan³, Armando E. Gonzalez⁴, Robert H. Gilman¹, Victor C.W. Tsang⁵, Hector H. Garcia¹, for the Cysticercosis Working Group in Peru⁶

¹*Departamento de Microbiologia, Universidad Peruana Cayetano Heredia, Lima, Peru*, ²*Facultad de Salud Publica y Administracion, Universidad Peruana Cayetano Heredia, Lima, Peru*, ³*Department of Biological Sciences, University of Salford, Salford, United Kingdom*, ⁴*School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru*, ⁵*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁶*Universidad Peruana Cayetano Heredia, Lima, Peru*

11:30 a.m.

1082

HUMAN TAENIASIS: DIAGNOSIS AND ASSESSMENT

Juan Jimenez¹, Silvia Rodriguez¹, Min Z. Levine², Humberto Zamora¹, Yesenia Castillo¹, James Allan³, Armando E. Gonzalez⁴, Victor W. Tsang², Robert H. Gilman¹, Hector H. Garcia¹, For Cysticercosis Working Group in Peru⁵

¹Departamento de Microbiología, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States,

³Department of Biological Sciences, University of Salford, Salford, United Kingdom, ⁴School of Veterinary Medicine, Universidad de San Marcos, Lima, Peru, ⁵Universidad Peruana Cayetano Heredia, Lima, Peru

(ACMCIP Abstract)

11:45 a.m.

1083

DETECTION OF TAENIA SOLIUM TAENIASIS BY MICROSCOPY, COPROANTIGENS AND SEROLOGY USING A RECOMBINANT ANTIGEN

Mary Luz Rodriguez¹, Silvia Rodriguez¹, Luz M. Moyano¹, Guillermo Gonzalvez¹, Min Levine², Victor CW Tsang², Armando E. Gonzalez³, Robert H. Gilman⁴, James C. Allan⁵, Humberto Zamora⁴, Carmen Taquiri⁴, Hector H. Garcia⁴, for the Cysticercosis Working Group in Peru⁶

¹Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Division of Parasitic Diseases, Centers for Disease and Control and Prevention, Atlanta, GA, United States, ³School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁴Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru, ⁵Department of Biological Sciences, University of Salford, Salford, United Kingdom, ⁶Universidad Peruana Cayetano Heredia, Lima, Peru

Scientific Session 149**Malaria – Vaccines II**

Jefferson East

Thursday, December 15

10:15 a.m. – Noon

CHAIR

Alassane Dicko

MRTC/DEAP/FMPOS, Bamako, Mali

Ann Stewart

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

10:15 a.m.

1084

DOUBLE-BLIND, RANDOMIZED, CONTROLLED, PHASE 1 STUDY OF THE AMA1-C1/ALHYDROGEL® VACCINE FOR PLASMODIUM FALCIPARUM MALARIA, IN SEMI-IMMUNE MALIAN ADULTS

Alassane Dicko¹, David J. Diemert², Issaka Sagara¹, Moussa Sogoba¹, Mohamed B. Niamele¹, Mahamadoun H. Assadou¹, Ousmane Guindo¹, Beh Kamate¹, Mounirou Baby¹, Mady Sissoko¹, Gregory Mullen², Mahamadou Sissoko¹, Siddhartha Mahanty², Mahamadou A. Thera¹, Amagana Dolo¹, Carole Long², Dapa A. Diallo¹, Louis H. Miller², Allan Saul², Ogobara K. Doumbo¹

¹Malaria Research and Training Center, Bamako, Mali, ²National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

10:30 a.m.

1085

AMA1-C1/ALHYDROGEL® VACCINE FOR PLASMODIUM FALCIPARUM MALARIA INDUCES CROSS-REACTIVE ANTIBODIES TO A NON-VACCINE AMA1 ALLELE IN MALIAN ADULTS

David J. Diemert¹, Alassane Dicko², Amagana Dolo², Moussa Sogoba², Issaka Sagara², Andrew Orcutt¹, Dapa A. Diallo², Siddhartha Mahanty¹, Louis H. Miller¹, Carole Long¹, Allan Saul¹, Ogobara K. Doumbo², Gregory Mullen¹

¹National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ²Malaria Research and Training Center, Bamako, Mali

10:45 a.m.

1086

DEVELOPMENT OF A SPOOROZITE CHALLENGE MODEL FOR PLASMODIUM VIVAX IN HUMAN VOLUNTEERS

Olga L. Fernandez¹, Maria R. Manzano², Bermans Murrain¹, Pedro Blanco¹, Felipe Zamora¹, Alejandro Jordan¹, Ricardo Palacios³, Juan Diego Velez⁴, Arevalo-Herrera Myriam¹, Sócrates Herrera¹

¹Malaria Vaccine and Drug Testing Center, Cali, Colombia,

²Immunology Institute, Cali, Colombia, ³Praca Marisa Marques-

University Sao Pablo, Sao Pablo, Brazil, ⁴Fundación Clínica Valle de Lili, Cali, Colombia

11 a.m.

1087

P. FALCIPARUM MULTI-ANTIGEN ADENOVIRUS VECTORED-VACCINE IS IMMUNOGENIC IN BOTH HOMOLOGOUS AND HETEROLOGOUS BOOST REGIMENS IN A YUCATAN SWINE MODEL OF MALARIA

Noelle B. Patterson¹, Joseph J. Campo¹, Maureen E. Stefaniak¹, Joseph Bruder², Keith Limbach¹, Greg Mullen³, C. Richter King², Aaron P. Miles³, Louis H. Miller³, Carole Long³, Allan Saul³, Denise L. Doolan¹

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

²GenVec, Inc., Gaithersburg, MD, United States, ³National Institutes of Health Malaria Vaccine Development Branch (MVDB), Rockville, MD, United States

11:15 a.m.

1088

THE EFFECT OF IMMUNIZATION INTERVAL ON THE IMMUNOGENICITY AND PROTECTIVE EFFICACY OF A MULTISTAGE *PLASMODIUM KNOWLESII* DNA PRIME/POXVIRUS BOOST VACCINE IN CYNOMOLGUS MONKEYS

Walter R. Weiss¹, George Jiang¹, Solomon Conteh¹, Nannette Parra², Nancy O. Richie¹, Anais Valencia¹, Priti Singh¹, Keith Limbach¹, Daniel J. Carucci³, Martha Sedegah¹, Gary T. Brice⁴, Denise L. Doolan¹, **Thomas L. Richie¹**

¹Naval Medical Research Center Malaria Program, Silver Spring, MD, United States, ²Armed Forces Radiobiology Research Institute, Bethesda, MD, United States, ³Foundation for the National Institutes of Health, Bethesda, MD, United States, ⁴Naval Medical Research Unit # 2, Jakarta, Indonesia

(ACMCIP Abstract)

11:30 a.m.

1089

HETEROLOGOUS PRIME-BOOST IMMUNIZATION WITH EPIDERMAL GENE GUN ADMINISTERED *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN (CSP) ENCODING DNA AND INTRAMUSCULAR RTS,S/AS02A IN RHESUS MONKEYS GENERATES ROBUST CUTANEOUS DELAYED-TYPE HYPERSENSITIVITY RESPONSES AGAINST CSP C TERMINUS

Douglas S. Walsh¹, Montip Gettayacamin², Jeffrey A. Lyon¹, Wolfgang W. Leitner³, Ann Stewart¹, Sathit Pichyangkul², Panita Gosi², Pongsri Tongtawe², Carolyn A. Holland¹, Nelly Kolodny¹, Joe Cohen⁴, Gerald Voss⁴, Ripley Ballou⁴, D. Gray Heppner, Jr.¹, D. Gray Heppner¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²US Army Medical Component, Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand, ³Dermatology Branch, National Institutes of Health, Bethesda, MD, United States, ⁴GlaxoSmithKline Biologicals, Rixensart, Belgium

11:45 a.m.

1090

HETEROLOGOUS PRIME-BOOST WITH ADENOVIRUS35-VECTORED CS AND RECOMBINANT PROTEIN RTS,S/AS01B GREATLY ENHANCES IMMUNE RESPONSES TO *P. FALCIPARUM* CS

V. Ann Stewart¹, Shannon M. McGrath¹, Maria Grazia Pau², Pascal Mettens³, Patrice Dubois³, Jerome H. Custers², Marie-Ange Demoitié³, Olga Ophorst², Joseph Shott¹, Babak Bayat³, Marie-Noelle Donner³, Marie-Claude Dubois³, Jaap Goudsmit², Joe Cohen³, D. Gray Heppner¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Cruceff Holland BV, Leiden, Netherlands, ³GlaxoSmithKline Biologicals, Rixensart, Belgium

(ACMCIP Abstract)

Symposium 150

8-Aminoquinolines: Past, Present and Future II

Jefferson West

Thursday, December 15

10:15 a.m. – Noon

8-Aminoquinolines are an important class of anti-infective drugs with promising utility against malaria, leishmaniasis and *Pneumocystis carinii* pneumonia (PCP). Their potential use in coccidiosis and trypanosomiasis has also been suggested. Primaquine has been the only drug available for treatment of relapsing malaria, while a few other 8-aminoquinolines are currently under development. 8-Aminoquinolines also show gametocytocidal and sporontocidal actions indicating their promising use in interruption of malaria transmission. Their use in chemoprophylaxis against malaria infection has also been evaluated. The most important safety concerns with these drugs are methemoglobinemia and hemolytic events, particularly in populations with glucose 6-phosphate dehydrogenase deficiencies. Biotransformation mechanisms, which appear to be central to anti-infective and hematological toxicities, are still not well understood. Recent studies have shown potential for development of stereoselective analogs with better efficacy and reduced toxicity. A symposium to discuss the critical issues related to their efficacy, toxicity and recent preclinical and clinical advancements would be a useful forum for advancing the development and utility of this class. This session will focus on use and development of 8-aminoquinolines for treatment of emerging and neglected infectious diseases and also on the issues related to their toxicity and metabolism.

CHAIR

Babu L. Tekwani

University of Mississippi, University, MS, United States

Simon Croft

DNDi, Geneva, Switzerland

Larry Walker

University of Mississippi, University, MS, United States

10:15 a.m.

INTRODUCTION: 8-AMINOQUINOLINES IN TREATMENT OF EMERGING AND NEGLECTED INFECTIOUS DISEASES

Simon Croft

DNDi, Geneva, Switzerland

10:30 a.m.

SITAMAQUINE — SO WHERE ARE WE?

Mark Felton

GlaxoSmithKline, Middlesex, United Kingdom

11 a.m.

G6PDH DEFICIENCY: IMPLICATIONS IN PUBLIC HEALTH AND DRUG DEVELOPMENT

Colin Ohrt

Walter Reed Army Institute of Research, Germantown, MD, United States

11:30 a.m.**METABOLISM AND TOXICITY OF 8-AMINOQUINOLINES — SOME NEW DIRECTIONS**

Babu L. Tekwani

*University of Mississippi, University, MS, United States***Symposium 151****Arthropod Salivary Gland Proteins and Their Potential as Vaccine Targets***Georgetown East*

Thursday, December 15 10:15 a.m. – Noon

The salivary glands of numerous arthropod vectors of disease contain potent factors that modulate blood flow and/or inflammation/immunity. The vasomodulatory factors help the vector obtain a blood meal. The immunomodulatory factors can dramatically affect the immune response of the host and enhance pathogen transmission by arthropods. It has been observed that vaccinating against components of the salivary glands or gut of arthropods can protect the host from infestation with the arthropod or infection with pathogens transmitted by arthropods. These results suggest that multi-subunit vaccines that target the pathogen itself as well as arthropod vaccine targets may be the most effective at controlling arthropods and arthropod-borne pathogens since these vaccines would target several facets of the life cycle of the pathogens and their vectors.

CHAIR

Richard G. Titus*Colorado State University, Fort Collins, CO, United States***Jesus G. Valenzuela***National Institutes of Health, Rockville, MD, United States***10:15 a.m.****ARTHROPOD SALIVARY GLAND IMMUNOMODULATORS AND ANTI-ARTHROPOD VACCINES — OVERVIEW AND POTENTIAL**

Richard G. Titus

*Colorado State University, Ft. Collins, CO, United States***10:45 a.m.****FUNCTIONAL GENOMIC APPROACHES TO SEARCH FOR VECTOR-BASED VACCINES**

Jesus G. Valenzuela

*National Institutes of Health, Rockville, MD, United States***11:10 a.m.****SALIVARY GLAND PROTEINS AND THE IMMUNOLOGY OF THE TICK-HOST-PATHOGEN INTERFACE**

Stephen Wikel

*University of Connecticut Health Center, Farmington, CT, United States***11:35 a.m.****MOSQUITO-HOST INTERACTIONS AND VIRUS TRANSMISSION**

Stephen Higgs

*University of Texas Medical Branch, Galveston, TX, United States***Symposium 152****Chikungunya Virus — A New “Emerging” Pathogen***Georgetown West*

Thursday, December 15 10:15 a.m. – Noon

Chikungunya virus (CHIKV) is a member of the genus Alphavirus in the family Togaviridae. The virus was first isolated by Ross in 1953 during the epidemic of a dengue-like illness that occurred in Newala district of Tanzania. Since that initial outbreak, CHIKV virus has continued to cause sporadic epidemics in Africa and Southeast Asia. However, within the past five years, CHIKV outbreaks have become more frequent, affecting India, Indonesia, Lamu and Mombasa in Kenya, the Indian Ocean Islands of Comoros and Mauritius, and most recently, areas in Somalia. This symposium aims to bring awareness to the significant problems arising due to CHIKV by describing the recent resurgence of the virus and implications for future surveillance and control programs.

CHAIR

Robert F. Breiman*Centers for Disease Control and Prevention Kenya, Kisumu, Kenya***Ann M. Powers***Centers for Disease Control and Prevention, Fort Collins, CO, United States***10:15 a.m.****HISTORICAL PERSPECTIVE OF CHIKUNGUNYA VIRUS EPIDEMIOLOGY AND OUTBREAKS**

Donald S. Burke

*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States***10:35 a.m.****EPIDEMIOLOGIC FINDINGS FROM RECENT MAJOR OUTBREAKS OF CHIKUNGUNYA VIRUS IN EAST AFRICA**

Kibet Sergon

*Field Epidemiology and Laboratory Training Program, Kenya Ministry of Health, Nairobi, Kenya***11 a.m.****ENTOMOLOGICAL INVESTIGATIONS OF A CHIKUNGUNYA VIRUS OUTBREAK IN THE UNION OF THE COMOROS**

Rosemary C. Sang

Center for Virologic Research, Kenya Medical Research Institute, Nairobi, Kenya

11:25 a.m.

THE REEMERGENCE OF CHIKUNGUNYA VIRUS IN INDONESIA

Andrew L. Corwin
US Naval Medical Research Unit No. 2, Jakarta, Indonesia

11:45 a.m.

THE FUTURE OF CHIKUNGUNYA VIRUS: PREVENTION, CONTROL, AND POSSIBILITIES

Barry R. Miller
Centers for Disease Control and Prevention, Division of Vector-Borne Infectious Diseases, Fort Collins, CO

Scientific Session 153

Clinical Tropical Medicine IV

International Ballroom East

Thursday, December 15 10:15 - 11:45 a.m.

CHAIR

Parsotam R. Hira

Kuwait University, Kuwait City, Kuwait

Eli Schwartz

Sheba Medical Center, Tel hashomer, Israel

10:15 a.m.

1091

SCHISTOSOMIASIS IN RETURNING ISRAELI TRAVELERS

Eli Schwartz¹, Eyal Meltzer¹, Galit Artom¹, Etti Marva², Mark Assous²

¹Sheba Medical Ctr, Tel hashomer, Israel, ²Ministry of Health, Jerusalem, Israel

10:30 a.m.

1092

DEC ALONE VERSUS DEC PLUS ALBENDAZOLE FOR CONTROL OF BANCROFTIAN FILARIASIS IN PAPUA NEW GUINEA

Moses J. Bockarie¹, Livingstone Tavul¹, Will Kastens¹, Daniel J. Tisch², James W. Kazura²

¹PNGIMR, Madang, Papua New Guinea, ²Case Western Reserve University, Cleveland, OH, United States

10:45 a.m.

1093

FLUID RESUSCITATION FOR DENGUE SHOCK SYNDROME — THE EVIDENCE FROM FORMAL RANDOMISED AND BLINDED INTERVENTION TRIALS IN VIETNAM

Bridget Wills¹, Nguyen M. Dung², Ha T. Loan², Dong T. Tam², Tran T. Thuy², Le T. Minh², Tran V. Diet², Nguyen T. Hao², Nguyen V. Chau², Kasia Stepniewska¹, Nicholas J. White¹, Jeremy J. Farrar¹

¹Oxford University Clinical Research Unit, Ho Chi Minh City, Viet Nam, ²Hospital for Tropical Diseases, Ho Chi Minh City, Viet Nam

11 a.m.

1094

EFFECT OF MANNITOL AS ADJUNCT THERAPY ON THE CLINICAL OUTCOME OF CHILDHOOD CEREBRAL MALARIA IN MULAGO HOSPITAL: A RANDOMISED CLINICAL TRIAL

Beatrice E. Namutangula, James K. Tumwine, Grace Ndeezi, Justus S. Byarugaba
Makerere University, Kampala, Uganda

11:15 a.m.

1096

PLACENTAL MALARIA INCREASES RESISTANCE OF PRIMIGRAVID OFFSPRING TO P. FALCIPARUM PARASITEMIA, BUT DECREASES RESISTANCE OF MULTIGRAVID OFFSPRING

Theonest K. Mutabingwa¹, **Melissa C. Bolla**², Jin-Long Li², Gonzalo J. Domingo², Xiaohong Li³, Michal Fried², Patrick E. Duffy²

¹Muheza Designated District Hospital, Muheza-Tanga, Tanzania, United Republic of, ²Seattle Biomedical Research Institute, Seattle, WA, United States, ³Fred Hutchinson Cancer Research Center, Seattle, WA, United States

11:30 a.m.

1097

EPIDEMIOLOGY OF MICROSPORIDIA IN PERUVIAN CHILDREN

Vitaliano A. Cama¹, Ynes R. Ortega², Robert H. Gilman³, Lilia Cabrera⁴, Sara Crawford⁵, Manuela Verastegui⁴, Hector H. Garcia⁴, Caryn Bern⁵, Lihua Xiao⁵

¹Centers for Disease Control-AREF, Atlanta, GA, United States, ²University of Georgia, Griffin, GA, United States, ³Johns Hopkins University, Baltimore, MD, United States, ⁴UPCH, Lima, Peru, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

Certificate Exam Committee Meeting

Edison

Thursday, December 15 11:30 a.m. - 4 p.m.

ASTMH 54th Annual Meeting Adjourns

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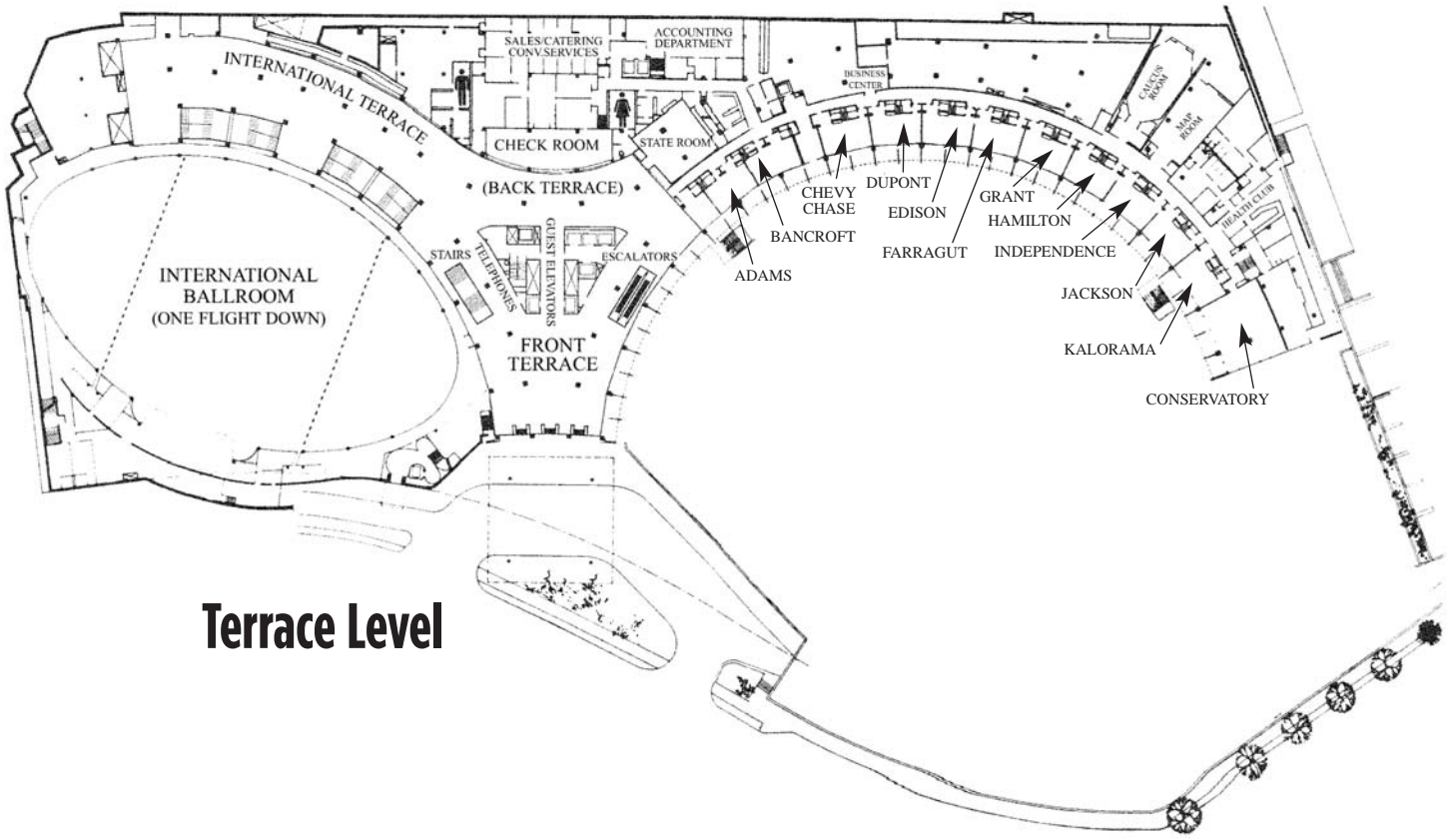
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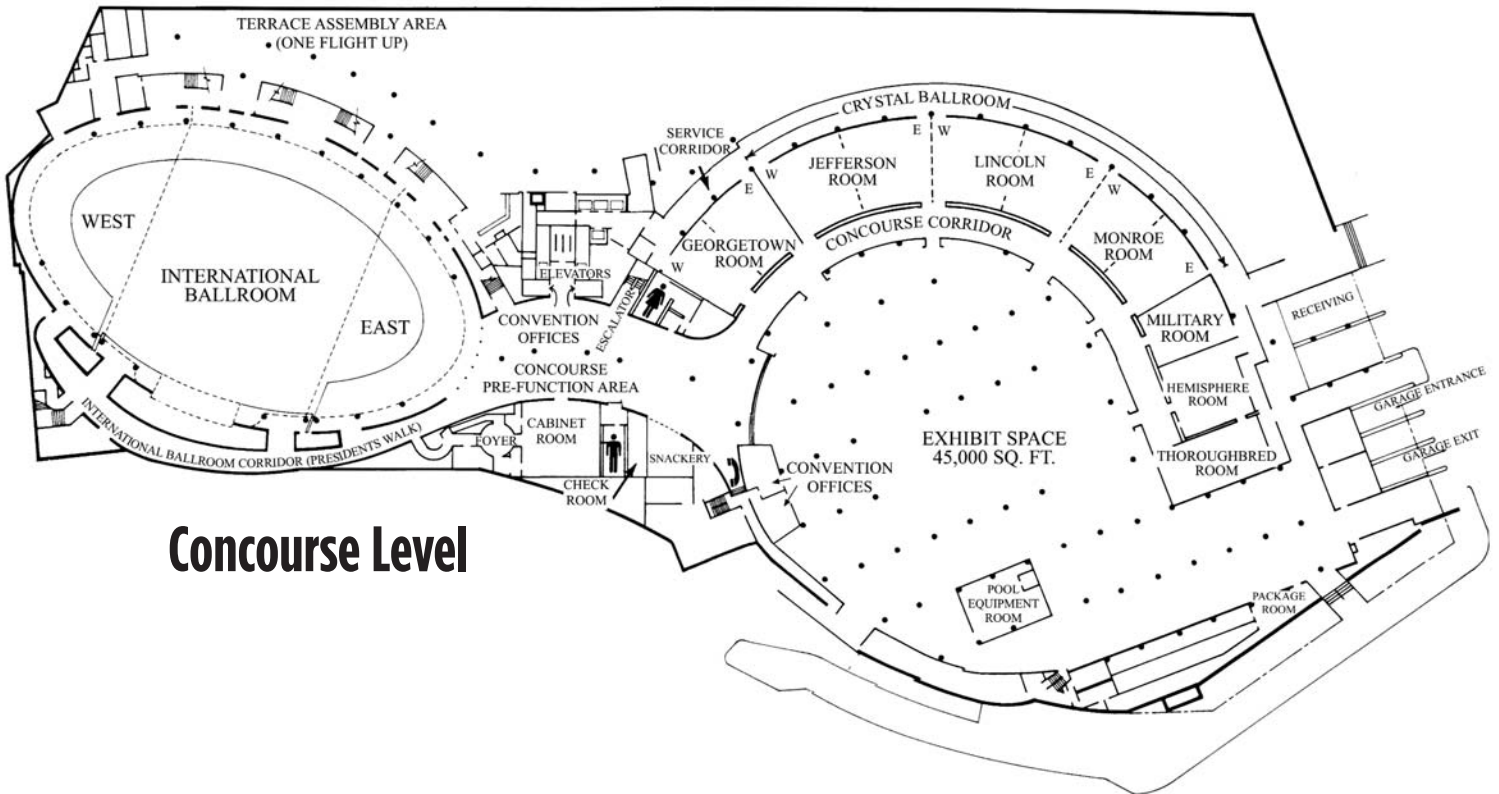
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