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

ASTMH **54th**
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.						Chemoprophylaxis														
10:00 - 10:30 a.m.																				
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.			Exhibitor																	
2:00 - 2:30 p.m.			Set-Up																	
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.			Opening Reception																	
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.												

* Please note that Affiliate Meetings are by invitation only.

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

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 <i>p. 150</i>																			
12:15 - 12:30 p.m.																							
12:30 - 1:15 p.m.																							
1:15 - 1:30 p.m.																							
1:30 - 2:00 p.m.				Poster Session B Viewing			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>													
2:00 - 3:15 p.m.																							
3:15 - 3:45 p.m.			Coffee Break																				
3:45 - 5:30 p.m.	5pm							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 Session B																			
6:00 - 6:45 p.m.																							
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>								

Schedule-at-a-Glance

Thursday, December 15

Time	Concourse Foyer	Thouroughbred Exhibit Hall	Adams	Bancroft	Monroe East	Monroe West	Lincoln East	Lincoln West	Jefferson East	Jefferson West	Georgetown East	Georgetown West	International Ballroom East	Map	Caucus	State	Dupont	Edison	Farmgout
6:30 - 7:00 a.m.																			
7:00 - 7:30 a.m.	Registration	Speaker Ready Room (AV Prep Room)	Press Room #1	Press Room #2	Symposium 136	Symposium 137	Scientific Session 138	Scientific Session 139	Scientific Session 140	Symposium 141	Scientific Session 142	Scientific Session 143	Scientific Session 144		Affiliate Meeting	Committee Meeting Room			
7:30 - 8:00 a.m.					Poxviridae	An. gambiae Genome	Flavivirus IV West Nile	Helmiths I	Malaria Vaccine I	Arthropod Saliva	Chikungunya Virus	Clinical Trop Med III							
8:00 - 9:45 a.m.					p. 197	p. 197	p. 198	p. 199	p. 200	p. 201	p. 201	p. 202	Clinical Trop Med III		Fogarty International Center/NIH Meeting	Dengue Vaccine Initiative Board of Councilors Meeting			
9:45 - 10:15 a.m.		Coffee Break																	Affiliate Meeting
10:15 - Noon					Scientific Session 145	Scientific Session 146	Scientific Session 147	Scientific Session 148	Scientific Session 149	Symposium 150	Symposium 151	Symposium 152	Scientific Session 153						
	10:30am				Mesquias Biochem Med (to Med Gen II	Malaria BioPath III	Flavivirus V	Helmiths II	Malaria Vaccine II	Arthropod Saliva	Chikungunya Virus	Clinical Trop Med IV							
			2pm	2pm	p. 204	p. 205	p. 205	p. 207	p. 208	p. 209	p. 210	p. 210	p. 211					Certificate Exam Comm	
Noon - 12:15 p.m.																			
12:15 - 1:15 p.m.																			
1:15 - 3:00 p.m.																			
3:00 - 4:30 p.m.																			
4:30 - 5:00 p.m.																			
5:00 - 5:45 p.m.																			
5:45 - 6:30 p.m.																			
6:30 - 7:00 p.m.																			6a-5p

* Please note that Affiliate Meetings are by invitation only.

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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

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

Entomology

Chair: William Black
Kathryn Aultman
David Severson

Filariasis

Chair: Amy Klion
Sara Lustigman
Thomas Nutman
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



ASTMH Headquarters Staff

Sally Finney

Executive Director

Judy DeAcetis

Administrator

Sherri Kamensky

Administrator

Jennifer Waxman

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

Acambis Inc.
Techlab Inc.

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 Kamy¹, 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 Kalayanaroj², 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 Schlagenhauf
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. Gemperli⁵, K. Andriano⁵, C. Hatz⁶

¹Swiss Tropical Institute, Basel, Switzerland, ²Abt. fuer Infektions und Tropenmedizin der Universitaet, Muenchen, Germany, ³Groupe Hospitalier Pitié-Salpêtrière Departement 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. Conrad**¹, 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 NEOSPOA CANINUM TACHYZOITES REVEALS ANTI-PARASITIC ACTIVITY INDEPENDENT OF THE NITRO GROUP**Marco Esposito**¹, 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 Lehmann**¹, 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. Lupo**¹, 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. Singh**¹, 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)

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.

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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.

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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.

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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
