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American Society of Tropical Medicine and Hygiene
57th Annual Meeting



December 7–11, 2008

Sheraton New Orleans

New Orleans, Louisiana, USA

Supplement to

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



ASTMH Thanks the 57th Annual Meeting Supporters

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AMERICAN SOCIETY OF TROPICAL MEDICINE AND HYGIENE

57TH
ASTMH
ANNUAL
MEETING



See the ASTMH 57th Annual Meeting Abstract Book, included with your registration packet, to view the full text of abstracts presented at the annual meeting.

December 7-11, 2008
Sheraton New Orleans
New Orleans, Louisiana, USA

www.astmh.org





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

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

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 277.

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.

Questions

If you have any questions regarding the program or registration, visit the ASTMH registration desk in the Napoleon Ballroom on the fourth floor.

Schedule-at-a-Glance

Sunday, December 7, 2008

	Napoleon Ballroom 3rd floor	Napoleon Ballroom 3rd floor	Grand Ballroom AB 5th floor	Grand Ballroom C 5th floor	Grand Ballroom D 5th floor	Grand Ballroom E 5th floor	Oak Alley 4th floor	Rhythms I 2nd floor	Rhythms II/III 2nd floor	
7 - 7:30 a.m.										
7:30 - 8 a.m.										
8 - 8:30 a.m.										
8:30 - 9 a.m.										
9 - 9:30 a.m.										
9:30 - 10 a.m.										
10 - 10:30 a.m.										
10:30 - 11 a.m.										
11 - 11:30 a.m.			Pre-Meeting Course: Malaria Eradication							
11:30 a.m. - Noon										
Noon - 12:30 p.m.										
12:30 - 1 p.m.										
1 - 1:30 p.m.							Young Investigator Award Session A	Young Investigator Award Session B		
1:30 - 2 p.m.	Registration									
2 - 2:30 p.m.										
2:30 - 3 p.m.										
3 - 3:30 p.m.										
3:30 - 4 p.m.										
4 - 4:30 p.m.										
4:30 - 5 p.m.									Student Reception	
5 - 5:30 p.m.										
5:30 - 6 p.m.										
6 - 6:30 p.m.			1 Opening Plenary Awards Ceremony p. 54							
6:30 - 7 p.m.										
7 - 7:30 p.m.										
7:30 - 8 p.m.										
8 - 8:30 p.m.		Opening Reception								
8:30 - 9 p.m.										
9 - 9:30 p.m.										
9:30 - 10 p.m.										



Schedule-at-a-Glance

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Sunday, December 7, 2008 (continued)

	Bayside A 4th floor	Bayside B 4th floor	Bayside C 4th floor	Waterbury Ballroom 2nd floor	Grand Couteau 5th floor	Salon 816 8th floor	Salon 824 8th floor	Salon 817/821 8th floor
7 - 7:30 a.m.								
7:30 - 8 a.m.								
8 - 8:30 a.m.				ASTMH Council Meeting				
8:30 - 9 a.m.								
9 - 9:30 a.m.								
9:30 - 10 a.m.								
10 - 10:30 a.m.								
10:30 - 11 a.m.								
11 - 11:30 a.m.								ACAV SIE
11:30 a.m. - Noon								ACAV SIRACA
Noon - 12:30 p.m.								
12:30 - 1 p.m.	Young Investigator Award Session C	Young Investigator Award Session D	Young Investigator Award Session E					ACAV SALS
1 - 1:30 p.m.								
1:30 - 2 p.m.								
2 - 2:30 p.m.								
2:30 - 3 p.m.								
3 - 3:30 p.m.								
3:30 - 4 p.m.								
4 - 4:30 p.m.					ACMCIP Council Meeting	Clinical Group Council Meeting	ACME Council Meeting	ACAV Council Meeting
4:30 - 5 p.m.								
5 - 5:30 p.m.								
5:30 - 6 p.m.								
6 - 6:30 p.m.								
6:30 - 7 p.m.								
7 - 7:30 p.m.								
7:30 - 8 p.m.								
8 - 8:30 p.m.								
8:30 - 9 p.m.								
9 - 9:30 p.m.								
9:30 - 10 p.m.								



Schedule-at-a-Glance

Monday, December 8, 2008

	Napoleon Ballroom 3rd floor	Armstrong 8th floor	Cornet 8th floor	Gallery 1st floor	Rhythms I 2nd floor	Rhythms II/III 2nd floor	Waterbury 2nd floor	Napoleon A123 3rd floor
7:00 - 7:30 a.m.								
7:30 - 8:00 a.m.								
8:00 - 9:45 a.m.	Exhibits Open 9:30-10:30			2 Symposium <i>Amblyomma americanum</i> I p. 56	3 Symposium GIS Systems and Infectious Dis. p. 56	4 Symposium Clinical Updates p. 57	5 Symposium Natural Disasters p. 57	6 Scientific Session Malaria Vaccines I p. 57
9:45 - 10:15 a.m.	Coffee Break	Poster Session A Set-Up	Poster Session A Set-Up					
10:15 - Noon		Poster Session A Viewing	Poster Session A Viewing	14 Symposium <i>Amblyomma americanum</i> II p. 62	15 Symposium GIS: Malaria, Schistosomiasis p. 62	16 Symposium Tropical Medicine HTD p. 63	17 Scientific Session Bacteria I Water and Hygiene p. 63	18 Scientific Session Malaria Vaccines II p. 64
Noon - 12:15 p.m.								
12:15 - 12:30 p.m.								
12:30 - 12:45 p.m.	Exhibit Hall Open Light Lunch	26 Poster Session A Light Lunch p. 70	26 Poster Session A Light Lunch p. 70				27 Peace Corps Masters Programs p. 96	
12:45 - 1:15 p.m.								
1:15 - 1:30 p.m.								
1:30 - 3:15 p.m.	Exhibits Open 3-4			31 Scientific Session Malaria Immunology I p. 97	32 Symposium Traveling Child p. 99	33 Symposium Building Clinical Programs p. 99	34 Symposium Intestinal Microbiota p. 100	35 Symposium Plasmodia Pores, Channels, Transporters p. 100
3:15- 3:45 p.m.	Coffee Break							
3:45 - 5:30 p.m.		Poster Session A Viewing	Poster Session A Viewing	43 Scientific Session Malaria Immunology II p. 105	44 Symposium Malnutrition and Infection p. 106	45 Symposium Malaria Rx in Pregnancy p. 107		46 Scientific Session Malaria Markers Drug Resistance p. 107
5:30 - 6:00 p.m.								
6:00 - 6:45 p.m.								
6:45 - 7:00 p.m.								
7:00 - 7:30 p.m.		Poster Session A Dismantle	Poster Session A Dismantle	Satellite Symposium Antimalarial Partnerships p. 113		Satellite Symposium Japanese Encephalitis p. 113		
7:30 - 8:00 p.m.								
8:00 - 8:30 p.m.								
8:30 - 9:00 p.m.								

Schedule-at-a-Glance

Monday, December 8, 2008 (continued)

	Maurepas 3rd floor	Bayside A 4th floor	Bayside BC 4th floor	Grand Ballroom A 5th floor	Grand Ballroom B 5th floor	Grand Ballroom C 5th floor	Grand Ballroom D 5th floor	Grand Ballroom E 5th floor
7:00 - 7:30 a.m.				1A Gates Malaria Strategy p. 55				
7:30 - 8:00 a.m.								
8:00 - 9:45 a.m.	7 Symposium Field-Based Research p. 58		8 Symposium NTD Update: Latin American and Caribbean p. 59	9 Symposium ACMCIP Host Cell Encounters p. 59	10 Symposium HIV: Africa Beyond ART p. 60	11 Scientific Session Flavivirus I Dengue I p. 60	12 Symposium Career Development I p. 61	13 Symposium Rectal Artesunate p. 61
9:45 - 10:15 a.m.								
10:15 - Noon	19 Scientific Session Malaria - Mosquito: Transmission p. 65		20 Symposium HAT: Drug R&D p. 66	21 Symposium Host-Pathogen Genomic: <i>Plasmodium falciparum</i> p. 67	22 Scientific Session Helminths I: Taenia/ Cysticercosis p. 67	23 Scientific Session Flavivirus II Dengue II p. 68	24 Symposium Career Development II p. 69	25 Symposium Home Management Malaria ACT and Dx p. 69
Noon - 12:15 p.m.								
12:15 - 12:30 p.m.				28 Meet the Professors A Enigmatic Cases p. 96		29 Malaria Eradication Summary p. 96	30 Cochrane Reviews in Tropical ID p. 97	
12:30 - 12:45 p.m.			27A HAT Film p. 96					
12:45 - 1:15 p.m.								
1:15 - 1:30 p.m.								
1:30 - 3:15 p.m.	35A Symposium Malaria Indicator Surveys p. 101	36 Symposium Schistosomiasis Rx Strategies p. 101	37 Symposium Conflict-Affected Populations p. 102	38 Symposium Disease Eradication NTDs p. 102	39 Scientific Session Schistosomiasis I Epidemiology/ Control p. 103	40 Symposium ACME I Modified Vectors p. 104	41 Symposium Antimalarial Global Strategy p. 104	42 Symposium Trypanosomatid Path and Protection p. 105
3:15- 3:45 p.m.								
3:45 - 5:30 p.m.	47 Scientific Session Kinetoplastida I Mol Biol and Immun p. 108	48 Symposium Research Capacity Building p. 109	49 Late Breakers in Clinical Tropical Medicine p. 110	50 Late Breakers in Basic Science Molecular Biology p. 110	51 Scientific Session Schistosomiasis II Immunology/ Pathology p. 110	52 Symposium ACME II Modified Vectors p. 111	53 Symposium Antimalarial Market: Africa p. 111	54 Symposium NTDs: PPP p. 112
5:30 - 6:00 p.m.								
6:00 - 6:45 p.m.						55 Plenary II Craig Lecture p. 112		
6:45 - 7:00 p.m.								
7:00 - 7:30 p.m.				Satellite Symposium Pyronaridine- Artesunate p. 114			Satellite Symposium Artemether/ Lumefantrine Safety-Efficacy p. 114	
7:30 - 8:00 p.m.								
8:00 - 8:30 p.m.								
8:30 - 9:00 p.m.								

Schedule-at-a-Glance

Tuesday, December 9, 2008

	Napoleon Ballroom 3rd floor	Armstrong 8th floor	Cornet 8th floor	Gallery 1st floor	Rhythms I 2nd floor	Rhythms II/III 2nd floor	Waterbury 2nd floor	Napoleon A123 3rd floor	
7:00 - 7:30 a.m.									
7:30 - 8:00 a.m.									
8:00 - 9:45 a.m.	Exhibits Open 9:30-10:30			56 Symposium Severe <i>Falciparum</i> Malaria p. 115	57 Symposium Operations Research Schisto: Africa p. 116	58 Symposium <i>Plasmodium</i> Mosquito Interactions p. 116	59 Symposium Mosquito Foraging and Vector Mgmt. p. 117	60 Symposium ACT Private Sector p. 117	
9:45 - 10:15 a.m.	Coffee Break	Poster B Set-Up	Poster B Set-Up						
10:15 - Noon		Poster Session B Viewing	Poster Session B Viewing	69 Symposium Leprosy in U.S. p. 124	70 Scientific Session Helminths II Echinococcus p. 125	71 Symposium Vaccines for Intracellular Bacteria p. 126	72 Scientific Session Malaria Molecular Biology p. 126	73 Symposium Metabolic and Metagenomic Profiling p. 127	
Noon - 12:15 p.m.									
12:15 - 12:30 p.m.	Exhibit Hall Open Light Lunch	82 Poster Session B Light Lunch p. 134	82 Poster Session B Light Lunch p. 134			83 Malaria Eradication Community Role p. 162	84 R.E. Shope Legacy and Climate Change p. 162		
12:30 - 12:45 p.m.									
12:45 - 1:15 p.m.									
1:15 - 1:30 p.m.									
1:30 - 3:15 p.m.	Exhibits Open 3-4			87 Symposium Dengue: Antibodies Macrophages p. 164		88 Symposium Drug Screening Approaches p. 164	89 Symposium Malaria and School Children p. 165	90 Scientific Session Malaria Chemotherapy p. 165	
3:15- 3:45 p.m.	Coffee Break								
3:45 - 5:30 p.m.		Poster Session B Viewing	Poster Session B Viewing	97 Symposium Dengue Vaccines p. 171		98 Symposium <i>P. vivax</i> : Beyond Genomics p. 171	99 Symposium Malaria Outcome Analysis p. 172	100 Scientific Session Malaria Drug Development p. 172	
5:30 - 6:00 p.m.									
6:00 - 6:45 p.m.									
6:45 - 7:00 p.m.									
7:00 - 7:30 p.m.		Poster Session B Dismantle	Poster Session B Dismantle	Satellite Symposium Antimalarial Synergy p. 178					
7:30 - 8:00 p.m.									
8:00 - 8:30 p.m.									
8:30 - 9:00 p.m.									

Schedule-at-a-Glance

Schedule-at-a-Glance

Tuesday, December 9, 2008 (continued)

	Maurepas 3rd floor	Bayside A 4th floor	Bayside BC 4th floor	Grand Ballroom A 5th floor	Grand Ballroom B 5th floor	Grand Ballroom C 5th floor	Grand Ballroom D 5th floor	Grand Ballroom E 5th floor
7:00 - 7:30 a.m.							55A Gates NTD Strategy p. 115	
7:30 - 8:00 a.m.								
8:00 - 9:45 a.m.	61 Scientific Session Bacteriology II: Diarrhea Epi. and Treatment p. 118	62 Symposium Liver Fluke Cholangio- carcinoma p. 119	63 Scientific Session Clinical Tropical Medicine I p. 119	64 Symposium Vector and Disease Modeling p. 120	65 Scientific Session Filariasis I Immunology p. 121	66 Scientific Session Flavivirus III Dengue III p. 122	67 Symposium Global Health p. 123	68 Scientific Session Malaria Dx p. 123
9:45 - 10:15 a.m.								
10:15 - Noon	74 Symposium Innate Immunity: Protozoa p. 128	75 Scientific Session Bacteriology III p. 128	76 Scientific Session Clinical Tropical Medicine II p. 129	77 Symposium Artemisinin Resistance p. 130	78 Scientific Session Filariasis II Molecular Biology p. 131	79 Scientific Session Flavivirus IV West Nile Virus p. 132	80 Symposium Academic Global Health Programs p. 133	81 Symposium NTD Update: Africa p. 133
Noon - 12:15 p.m.								
12:15 - 12:30 p.m.			84A PATH MVI Sporozoite Vaccine p. 162	85 Meet the Professors B Enigmatic Cases p. 163			86 ASTMH Journal p. 163	86A NTD Film p. 164
12:30 - 12:45 p.m.								
12:45 - 1:15 p.m.								
1:15 - 1:30 p.m.								
1:30 - 3:15 p.m.			91 Scientific Session Mosquitoes: Vector Bio./Epi. p. 166	92 Scientific Session ACMCIP Mol. Parasitology p. 167	93 Scientific Session Anthropods/ Entomology p. 168	94 Symposium Clinical Group I p. 169	95 Symposium Malaria Vaccines p. 169	96 Scientific Session Schistosomiasis III Mol. Bio./ Biochem p. 170
3:15- 3:45 p.m.								
3:45 - 5:30 p.m.			101 Scientific Session Mosquitoes: Vector Biology/ Epidemiology II p. 173	102 Scientific Session ACMCIP Mol. Parasitology II p. 174	103 Scientific Session Ectoparasite- Borne Diseases p. 175	104 Symposium Clinical Group II p. 176	105 Symposium Malaria Syndrome Vaccines p. 176	106 Scientific Session Helminthic Coinfections p. 177
5:30 - 6:00 p.m.								
6:00 - 6:45 p.m.						107 Plenary III Comm. Fund. Lecture p. 178		
6:45 - 7:00 p.m.								
7:00 - 7:30 p.m.				Satellite Symposium Dihydroar- temisinin Piperazine p. 178			Satellite Symposium Artemether/ Lumefantrine Impact p. 179	
7:30 - 8:00 p.m.								
8:00 - 8:30 p.m.								
8:30 - 9:00 p.m.								

Schedule-at-a-Glance

Wednesday, December 10, 2008

	Napoleon Ballroom 3rd floor	Armstrong 8th floor	Cornet 8th floor	Gallery 1st floor	Rhythms I 2nd floor	Rhythms II/ III 2nd floor	Waterbury 2nd floor	Napoleon A123 3rd floor	
7:00 - 7:30 a.m.									
7:30 - 8:00 a.m.									
8:00 - 9:45 a.m.	Exhibits Open 9:30-10:30			108 Symposium Tick-Host: Post-Genomics p. 179	109 Symposium Genital Schisto and HIV p. 180	110 Scientific Session Malaria Epidemiology I p. 180	111 Symposium Remote Sensing Vector-borne Disease p. 181	112 Symposium <i>Wolbachia</i> p. 182	
9:45 - 10:15 a.m.	Coffee Break	Poster C Set-Up	Poster C Set-Up						
10:15 - Noon		Poster Session C Viewing	Poster Session C Viewing	121 Symposium Loiasis p. 187	122 Symposium Cestode Disease Burden p. 188	123 Scientific Session Malaria Epidemiology II p. 188	124 Symposium Update: Vector-Borne Brazil p. 189	125 Symposium Diagnostic Tools p. 190	
Noon - 12:15 p.m.	Exhibit Hall Open (Closes at 2:30 p.m.)	134 Poster Session C Light Lunch p. 194	134 Poster Session C Light Lunch p. 194						
12:15 - 12:30 p.m.									
12:30 - 12:45 p.m.							135 Pediatric TB p. 221	136 Science and Alarmists p. 221	
12:45 - 1:15 p.m.									
1:15 - 1:30 p.m.									
1:30 - 3:15 p.m.				139 Symposium Arthropod Saliva p. 222	140 Scientific Session Filariasis III Epidemiology I p. 222	141 Symposium Severe <i>Vivax</i> Malaria p. 223	142 Symposium Global Enteric GEMS Study p. 224	143 Symposium IT in Research and Training p. 224	
3:15- 3:45 p.m.		Poster Session C Viewing	Poster Session C Viewing						
3:45 - 5:30 p.m.				152 Symposium Antimalarial Rx Discovery p. 231	153 Scientific Session Filariasis IV Epidemiology II p. 231	154 Symposium Dengue in Travelers p. 232	155 Symposium West Nile Virus Heterogeneity p. 233	156 Symposium <i>Yersinia pestis</i> p. 233	
5:30 - 6:00 p.m.									
6:00 - 6:45 p.m.									
6:45 - 7:00 p.m.									
7:00 - 7:30 p.m.		Poster Session C Dismantle	Poster Session C Dismantle						
7:30 - 8:00 p.m.									
8:00 - 8:30 p.m.									
8:30 - 9:00 p.m.									

Schedule-at-a-Glance

Wednesday, December 10, 2008 (continued)

	Maurepas 3rd floor	Bayside A 4th floor	Bayside BC 4th floor	Grand Ballroom A 5th floor	Grand Ballroom B 5th floor	Grand Ballroom C 5th floor	Grand Ballroom D 5th floor	Grand Ballroom E 5th floor
7:00 - 7:30 a.m.								
7:30 - 8:00 a.m.								
8:00 - 9:45 a.m.	113 Symposium Cholera p. 182	114 Scientific Session Pneumonia RTI and TB p. 182	115 Symposium APCs and Helminths p. 184	116 Symposium Fogarty Intl. Ctr Developing Leaders p. 184	117 Symposium Refugees and Immigrants p. 185	118 Scientific Session Flavivirus V p. 185	119 Scientific Session ACMCIP Cellular Parasitology I p. 186	120 Symposium Antimalarials and G6PD p. 187
9:45 - 10:15 a.m.								
10:15 - Noon	126 Symposium Diarrhea and Poverty p. 190	127 Scientific Session HIV Tropics p. 190	128 Symposium Avian Influenza p. 191	129 Symposium Launching Careers BWF-ASTMH p. 192	130 Symposium Clinical Research Mali p. 192	131 Symposium ACAV Yellow Fever p. 193	132 Scientific Session ACMCIP Cellular Parasitology II p. 193	133 Symposium Non-hemolytic 8-aminoquino- lines p. 194
Noon - 12:15 p.m.								
12:15 - 12:30 p.m.			136A Malaria Film p. 221	137 Meet the Professors C Enigmatic Cases p. 221				138 Wellcome Trust Res. Fellowships p. 222
12:30 - 12:45 p.m.								
12:45 - 1:15 p.m.								
1:15 - 1:30 p.m.								
1:30 - 3:15 p.m.	144 Scientific Session Malaria Drug Resistance p. 225	145 Scientific Session Viruses I p. 226	146 Scientific Session Mosquito Biochem. Mol. Biology Genetics I p. 227	147 Symposium Malaria Immunity and Anemia BWF p. 227	148 Scientific Session Protozoa p. 228	149 Symposium Vector Management I p. 229	150 Symposium Chagas: Women and Children p. 229	151 Scientific Session Helminths III Nematodes p. 230
3:15- 3:45 p.m.								
3:45 - 5:30 p.m.	157 Symposium Vector Transmission Blocking p. 234	158 Scientific Session Viruses II p. 234	159 Scientific Session Mosquito Biochem. Mol. Bio. Genetics II p. 235	160 Symposium Update: IPTi Malaria p. 236	161 Symposium Cerebral Malaria p. 237	162 Symposium Vector Management II p. 237	163 Symposium Chagas: U.S. p. 238	164 Scientific Session Helminths IV p. 238
5:30 - 6:00 p.m.								
6:00 - 6:45 p.m.						165 Plenary IV Presidential Address Business Meeting p. 239		
6:45 - 7:00 p.m.								
7:00 - 7:30 p.m.								
7:30 - 8:00 p.m.								
8:00 - 8:30 p.m.								
8:30 - 9:00 p.m.								

Schedule-at-a-Glance

Thursday, December 11, 2008

	Napoleon Ballroom 3rd floor	Gallery 1st floor	Waterbury 2nd floor	Napoleon 3rd floor	Bayside A 4th floor	Bayside BC 4th floor	Grand Ballroom C 5th floor	Grand Ballroom D 5th floor	Grand Ballroom E 5th floor
7:00 - 7:30 a.m.									
7:30 - 8:00 a.m.									
8:00 - 9:45 a.m.		166 Symposium Dengue: Latin America p. 239	167 Symposium Nipah and Hendra p. 240	168 Scientific Session Malaria Biology and Patho- genesis I p. 240	169 Symposium Helminth Drug Resistance p. 241	170 Symposium Transgenic Mosquito Fitness p. 242	171 Scientific Session Clinical Tropical Medicine III p. 242	172 Scientific Session ACMCIP Immuno- parasitology I p. 244	173 Scientific Session Kinetoplastida II Epi/Dx/Rx p. 244
9:45 - 10:15 a.m.	Coffee Break								
10:15 - Noon		174 Symposium Disease Burden Dengue p. 245	175 Symposium VHFs p. 246	176 Scientific Session Malaria Biology and Pathogenesis II p. 246	177 Symposium Sepsis in Tropics p. 247	178 Scientific Session Mosquito Insecticide Resistance p. 248	179 Scientific Session Clinical Tropical Medicine IV p. 248	180 Scientific Session ACMCIP Immuno- parasitology II p. 249	181 Symposium Influenza in Tropical Countries p. 250

Affiliate Group Meeting Schedule

Saturday, December 6

DoD-GEIS Malaria Drug Resistance Surveillance II
Salon 816/820
8 a.m. – 5 p.m.

Blantyre Malaria Project Think Tank for the Blantyre Autopsy Study
Crescent
8:30 a.m. – 5 p.m.

Fogarty International Center Grants Writing Workshop
Estherwood
9 a.m. – 5 p.m.

WARN Board Meeting
Off-site Meeting
9 a.m. – 8 p.m.

Liverpool School of Tropical Medicine AWOL Consortium
Cornet
9 a.m. – 5 p.m.

Sunday, December 7

Medicines for Malaria Venture Conference Room
Estherwood and Rampart
7 a.m. – 7 p.m.

Novartis Pharma Conference Room
Gallier AB
7 a.m. – 7 p.m.

Novartis Vaccines Conference Room
Oakley
7 a.m. – 7 p.m.

Pfizer Conference Room
Poydras
7 a.m. – 7 p.m.

sanofi-aventis Conference Room
Grand Chenier
7 a.m. – 7 p.m.

PATH Malaria Vaccine Initiative RTS,S Vaccine CTPC
Off-site Meeting
8 a.m. – 6 p.m.

Bill & Melinda Gates Foundation Meeting
Crescent
9 a.m. – 5 p.m.

Fogarty International Center Grants Writing Workshop
Grand Couteau
9 a.m. – Noon

UMass Medical School Dengue Hemorrhagic Fever Project Annual Investigators Meeting
Off-site Meeting
9 a.m. – 5 p.m.

WARN Board Meeting
Off-site Meeting
9 a.m. – 5 p.m.

Liverpool School of Tropical Medicine AWOL Management Committee and ESAC
Off-site Meeting
9 a.m. – 5 p.m.

MR4 Science Advisory Committee Meeting
Off-site Meeting
10 a.m. – 3 p.m.

International Society of Travel Medicine GeoSentinel Site Directors Meeting
Westin New Orleans Canal Place
1 p.m. – 5 p.m.

CDC Emerging Infections Meeting
Salon 828
3:30 p.m. – 5:30 p.m.

Monday, December 8

Medicines for Malaria Venture Conference Room
Estherwood and Rampart
7 a.m. – 7 p.m.

Novartis Pharma Conference Room
Gallier AB
7 a.m. – 7 p.m.

Novartis Vaccines Conference Room
Oakley
7 a.m. – 7 p.m.

Pfizer Conference Room
Poydras
7 a.m. – 7 p.m.

sanofi-aventis Conference Room
Grand Chenier
7 a.m. – 7 p.m.

sanofi-aventis R & D Ferroquine
Salon 828
7 a.m. – 10 a.m.

Bill & Melinda Gates Foundation Meeting
Crescent
9 a.m. – 5 p.m.

London School of Hygiene and Tropical Medicine Alumni Reception
Waterbury
7:30 p.m. – 9:30 p.m.

Tuesday, December 9

Medicines for Malaria Venture Conference Room
Estherwood and Rampart
7 a.m. – 7 p.m.

Novartis Pharma Conference Room
Gallier AB
7 a.m. – 7 p.m.

Novartis Vaccines Conference Room
Oakley
7 a.m. – 7 p.m.

Pfizer Conference Room
Poydras
7 a.m. – 7 p.m.

sanofi-aventis Conference Room
Grand Chenier
7 a.m. – 7 p.m.

National Institutes of Health/NIAID Collaborators Meeting
Salon 829
7 a.m. – 9 a.m.

CBR Project Meetings
Salon 828
7 a.m. – 7 p.m.

Bill & Melinda Gates Foundation Meeting
Crescent
9 a.m. – 5 p.m.

Tulane Department of Tropical Medicine Alumni Reception
World Trade Center of New Orleans
7 p.m. – 9 p.m.

Fogarty International Center GID Network Meeting
Grand Couteau
7 p.m. – 10 p.m.

Wednesday, December 10

Medicines for Malaria Venture Conference Room
Estherwood and Rampart
7 a.m. – 7 p.m.

Novartis Pharma Conference Room
Gallier AB
7 a.m. – 7 p.m.

Novartis Vaccines Conference Room
Oakley
7 a.m. – 7 p.m.

Pfizer Conference Room
Poydras
7 a.m. – 7 p.m.

sanofi-aventis Conference Room
Grand Chenier
7 a.m. – 7 p.m.

PATH Malaria Vaccine Initiative MALVA Funders Group Meeting
Grand Couteau
8 a.m. – 6 p.m.

Bill & Melinda Gates Foundation Meeting
Crescent
9 a.m. – 5 p.m.

Tulane SPHTM Chagas Disease: Trypanosoma cruzi Infection: Women and Children, a Vulnerable Population
Maurepas
12:15 p.m. – 1:15 p.m.

USUHS Achee Gates ITM
Salon 828
4 p.m. – 7 p.m.

PATH Malaria Vaccine Initiative AMA-1 Investigators Consortium
Oak Alley
6 p.m. – 9 p.m.

WARN Meeting
Bayside A
7:30 p.m. – 9:30 p.m.

Thursday, December 11

Medicines for Malaria Venture Conference Room
Estherwood and Rampart
7 a.m. – 7 p.m.

Novartis Pharma Conference Room
Gallier AB
7 a.m. – Noon

Novartis Vaccines Conference Room
Oakley
7 a.m. – Noon

Pfizer Conference Room
Poydras
7 a.m. – 7 p.m.

sanofi-aventis Conference Room
Grand Chenier
7 a.m. – 7 p.m.

PAHO-CDC Flavivirus Diagnostic Algorithm for the Americas
Salon 828
9 a.m. – 4:30 p.m.

Bill & Melinda Gates Foundation Meeting
Grand Couteau
Noon – 5 p.m.

Friday, December 12

Bill & Melinda Gates Foundation Meeting
Maurepas
8 a.m. – 5 p.m.

**Note:
Affiliate
group
meetings are
by invitation
only.**





ASTMH Council, Committee and Subgroup Meetings

www.astmh.org

Sunday, December 7

ASTMH Council Meeting

Waterbury

8 a.m. – 3:30 p.m.

ACAV SIE Subcommittee Meeting

Salon 817/821

11 a.m. – Noon

ACAV SIRACA Subcommittee Meeting

Salon 817/821

Noon – 2 p.m.

ACAV SALS Subcommittee Meeting

Salon 817/821

2 p.m. – 3:30 p.m.

ACAV Council Meeting

Salon 817/821

3:30 p.m. – 5:30 p.m.

ACMCIP Council Meeting

Grand Couteau

3:30 p.m. – 5:30 p.m.

ACME Council Meeting

Salon 824

3:30 p.m. – 5:30 p.m.

Clinical Group Council Meeting

Salon 816

3:30 p.m. – 5:30 p.m.

Young Investigator Award Committee Meeting

Oak Alley

3:30 p.m. – 5 p.m.

Monday, December 8

ASTMH Diploma Course Directors Meeting

Salon 829

7 a.m. – 8 a.m.

Public Policy and Advocacy Leadership Committee Meeting

Salon 816

7 a.m. – 8 a.m.

Burroughs Wellcome Fund/ASTMH Fellowship Committee Meeting

Salon 828

Noon – 2 p.m.

Certificate Exam Executive Committee Meeting

Salon 829

12:15 p.m. – 1:15 p.m.

Clinical Group Education Curriculum Meeting

Salon 816

12:15 p.m. – 1:15 p.m.

Tuesday, December 9

Clinical Group Past Presidents Meeting

Salon 824

Tuesday, December 9, 7 a.m. – 8 a.m.

Education Committee Meeting

Salon 816

7 a.m. – 8 a.m.

Journal Editorial Board Meeting

Salon 817/821

7 a.m. – 8 a.m.

CME/Courses Committee Meeting

Salon 816

12:15 p.m. – 1:15 p.m.

Wednesday, December 10

Scientific Program Committee

Oak Alley

7 a.m. – 8 a.m.

ASTMH Past Presidents Meeting

Grand Couteau

7 a.m. – 8 a.m.

Web Site Committee Meeting

Salon 816

7 a.m. – 8 a.m.

Membership Committee Meeting

Salon 816

12:15 p.m. – 1:15 p.m.

Certificate Exam Committee Meeting

Salon 829

12:15 p.m. – 1:15 p.m.

Thursday, December 11

ASTMH Council Meeting

Grand Couteau

7:30 a.m. – 9:30 a.m.

Meeting Room Sign-Up

Rooms 816 and 824 on the eighth floor are designated for committee meetings and other group meetings. Meeting room reservations are available on a first-come, first-served basis. Use the sign-up sheets located outside these rooms to reserve meeting time for your group.

ASTMH Subgroup Tables

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



ASTMH 57th Annual Meeting

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American Society of Tropical Medicine and Hygiene

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ASTMH Scientific Program Committee

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Diarrhea and Bacterial Illness

Chair: Ed Ryan
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James Hughes
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Entomology

Chair: William Black
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Chair: Amy Klion
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Steven Williams

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

Kinetoplastida

Chair: Rick Tarleton
Barbara Burleigh
Diane McMahon-Pratt

Late Breakers in Clinical Tropical Medicine

Barbara Herwaldt
David McNeeley

Late Breakers in Basic Science/Molecular Biology

Greg Ebel
Stefan Kappe

Meet the Professors

Anne McCarthy

Malaria

Chair: Carol Sibley
Jeanne Courval
Johanna Daily
Mary Hamel
Chandy John
Sanjai Kumar
Miriam Laufer
Myaing Nyunt
Chris Plowe
Laurence Slutsker
Joe Vinetz
Sarah Volkman
Kim Williamson
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Molecular Parasitology

Chair: Sarah Volkman
David Abraham
John Adams
Barbara Burleigh
Daniel Carucci
Brian Cooke
Don Harn
Stuart Kahn
Peter Kima
Barbara Mann
Diane McMahon-Pratt
Peter Melby
Evan Secor
Joe Vinetz
David Williams
Kim Williamson
Tom Wynn

Opportunistic and Anaerobic Protozoa

Chair: Thaddeus Graczyk
Beth Kirkpatrick
Barbara Mann
Upinder Singh

Pneumonia, Respiratory Infections and Tuberculosis

Chair: Abdullah Brooks
Rob Breiman
Davidson Hamer
Keith Klugman

Schistosomiasis-Helminths

Chair: Evan Secor
Miguel Staderker
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Chair: Stephen Dumler
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Sam Telford

Tropical HIV and Co-Infections

Chair: Jean Nachega
Elizabeth Barnett
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Virology

Chair: Rebeca Rico-Hesse
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Stephen Calderwood; Ravi Durvasula; Richard Guerrant; Regina LaRocque;
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Sarah Volkman**Public Policy and Advocacy Leadership**Kent Campbell, *Chair*
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Travel Awards

James LeDuc, *Chair*
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Joe Vinetz; Sarah Volkman

Update Course in Clinical Tropical Medicine and Travelers' Health

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

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Young Investigator Award

Peter Zimmerman, *Chair*
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Affiliate membership is an opportunity for a company, corporation, foundation or other type of organization to support ASTMH and its mission. Affiliate members designate one individual to serve as the main contact and receive society mailings. Affiliate membership benefits include:

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

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

ASTMH Affiliate Members**Donor**

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2008 Travel Awards

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

Ambroise Ahouidi

*Le Dantec Hospital & Cheikh Anta Diop
Dakar, Senegal
Abstract 1212*

Sheri Anderson

*University of Florida
Vero Beach, Florida, USA
Abstract 692*

Maria Arevalo

*University of Rochester
Rochester, New York, USA
Abstract 11*

Emmanuel Arinaitwe

*Makerere University-UCSF Malaria Research
Collaboration
Kampala, Uganda
Abstract 729*

Puji Asih

*Eijkman Institute for Molecular Biology
Jakarta, Indonesia
Abstract 196*

April Bobenchik

*University of Connecticut Health Center
Farmington, Connecticut, USA
Abstract 938*

Richelle Charles

*Massachusetts General Hospital
Boston, Massachusetts, USA
Abstract 414*

Patchanee Chootong

*Mahidol University
Bangkok, Thailand
Abstract 628*

Astrid Cienfuegos

*Universidad de Antioquia
Medellin, Colombia
Abstract 686*

Kelsey Deus

*Colorado State University
Fort Collins, Colorado, USA
Abstract 770*

Anne Dickson

*University of Iowa
Iowa City, Iowa, USA
Abstract 350*

Luc Djogbénou

*Institut de Recherche pour le
Développement/Centre de Recherche
Entomologique de Cotonou
Cotonou, Benin
Abstract 765*

Papa Drame

*Institut de Recherche pour le
Développement
Dakar, Senegal
Abstract 1219*

Brett Ellis

*Centro de Pesquisas Aggeu Magalães
(CPqAM), FIOCRUZ
Recife, Brazil
Abstract 907*

Christen Fornadel

*Johns Hopkins Bloomberg School
of Public Health
Baltimore, Maryland, USA
Abstract 252*

Kwadwo Frempong

*Noguchi Memorial Institute for Medical
Research
Accra, Ghana
Abstract 235*

Dionicia Gamboa

*Instituto de Medicina Tropical "Alexander
Von Humboldt" Universidad Peruana
Cayetano Heredia
Lima, Peru
Abstract 559*

Phillip George

*Virginia Tech University
Blacksburg, Virginia, USA
Abstract 675*

Bruno Ghersi

*Naval Medical Research Center Detachment
Lima, Peru
Abstract 719*

Kathryn Griffiths

*University of Wisconsin-Oshkosh
Oshkosh, Wisconsin, USA
Abstract 519*

Aaron Harris

*Tufts University School of Medicine
Boston, Massachusetts, USA
Abstract 415*

Yan Hu

*University of California, San Diego
La Jolla, California, USA
Abstract 1178*

Alisa Junpee

*Chulalongkorn University
Bangkok, Thailand
Abstract 526*

Muhammed Khan

*ICDDR
Dhaka, Bangladesh
Abstract 1131*

Cynthia Khoo

*Colorado State University
Fort Collins, Colorado, USA
Abstract 1085*

Joseph Koroma

*Ministry of Health and Sanitation
Freetown, Sierra Leone
Abstract 135*

Fiona Lovegrove

*University of Toronto
Toronto, Ontario, Canada
Abstract 1184*

Robin Moudy

*Wadsworth Center/New York State
Department of Health
Albany, New York, USA
Abstract 806*

Erick Muok

*Kenya Medical Research Institute
Kisumu, Kenya
Abstract 788*

James Mutunga

*Virginia Tech University
Blacksburg, Virginia, USA
Abstract 1216*

Agnes Mwakingwe

*Albert Einstein College of Medicine
Bronx, New York, USA
Abstract 928*

Norah Mwebaza

*Makerere University
Kampala, Uganda
Abstract 84*

Joaniter Nankabirwa

*Makerere University
Kampala, Uganda
Abstract 725*

Samuel Nsohya

*Makerere University
Kampala, Uganda
Abstract 591*

Charles Obonyo

*Kenya Medical Research Institute
Kisumu, Kenya
Abstract 953*

Sarah Olson

*University of Wisconsin-Madison
Madison, Wisconsin, USA
Abstract 685*

Pamela Orjuela-Sánchez

*University of São Paulo
São Paulo, Brazil
Abstract 211*

Collins Ouma

*University of New Mexico/KEMRI
Kisian, Kenya
Abstract 1230*

Surendra Kumar Prajapati

*National Institute of Malaria Research
Delhi, India
Abstract 224*

Edsel Salvana

*University Hospitals Case Medical Center
and National Institutes of Health – University
of the Philippines
Manila, The Philippines
Abstract 380*

Anne Spichler

*Health Municipality Secretariat of Sao Paulo
Sao Paulo, Brazil
Abstract 444*

Maria de Jesus Trovoada

*Instituto Gulbenkian de Ciência
Oeiras, Portugal
Abstract 227*

Matt Tucker

*University of South Florida
Tampa, Florida, USA
Abstract 1122*

Iskra Tuero

*Universidad Peruana Cayetano Heredia
Lima, Peru
Abstract 452*

Bhagyashree Manivannan Uradey

*Victoria University of Wellington
Wellington, New Zealand
Abstract 742*

Tom Were

*University of New Mexico/KEMRI
Kisumu, Kenya
Abstract 339*

**2008 American Committee of
Medical Entomology (ACME)
Travel Awards****Nicole L. Gottdenker**

*University of Georgia
Athens, Georgia, USA
Abstract 768*

Meera Venkatesan

*Johns Hopkins Bloomberg School
of Public Health
Baltimore, Maryland, USA
Abstract 676*



ASTMH 57th Annual Meeting

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Continuing Medical Education Accreditation

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

Continuing Medical Education Credits

The American Society of Tropical Medicine and Hygiene designates this educational activity for a maximum of 31.75 *AMA PRA Category 1 Credit(s)*[™]. Physicians should claim only credit commensurate with the extent of their participation in the activity.

Register for CME Credit

The CME documentation fee is \$100. CME certificates will be mailed six-to-eight weeks after the annual meeting. Complete your CME evaluation form online. Visit the ASTMH Cyber Café and complete your online CME Attendance and Evaluation Form while at the meeting. Or access the evaluation form at www.astmh.org/cme.

Full Disclosure Policy Affecting CME Activities

Consistent with ASTMH policy, faculty for this meeting are expected to disclose any economic or other personal interests that create, or may be perceived as creating, a conflict related to the material discussed. All conflicts of interest must be resolved prior to the annual meeting. In addition, consistent with ASTMH policy, faculty are expected to disclose to attendees at the beginning of their presentation(s) any product mentioned during their presentation that is not labeled for the use under discussion or is still investigational. This policy is intended to allow you to form your own judgments about such material.



General Meeting Information

Pre-Meeting Course Registration Hours

Napoleon Ballroom Registration Desk (Fourth Floor)

Friday, December 5	4 p.m. – 6 p.m.
Saturday, December 6	7 a.m. – 1:30 p.m.

Annual Meeting Registration Hours

Napoleon Ballroom (Fourth Floor)

Sunday, December 7	9:30 a.m. – 6 p.m.
Monday, December 8	7 a.m. – 5 p.m.
Tuesday, December 9	7 a.m. – 5 p.m.
Wednesday, December 10	7 a.m. – 5 p.m.
Thursday, December 11	7 a.m. – 10:30 a.m.

Messages and Emergency Calls

A message board will be available near the ASTMH registration desk. Check the message board often to retrieve your messages. Phone calls should be directed to +1-504-525-2500, the main switchboard of the Sheraton New Orleans. Callers should ask to be connected to the ASTMH registration desk. Faxes can be sent to the hotel at +1-504-595-5552.

Badges/Access Control

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

Replacement Badge

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

Spouse/Guest Registration

(Only for those outside the tropical medicine field)

Spouse/guest registration includes admission to the opening reception on Sunday, admission to the exhibit hall, plenary sessions and poster sessions only.

Food Functions

The following food functions are included in the registration fee:

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

Hotel Information

The Sheraton New Orleans is the site of all annual meeting activities.

Sheraton New Orleans
500 Canal Street
New Orleans, Louisiana 70131
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Hotel Parking

Parking at the Sheraton New Orleans is currently \$30.18 for overnight valet parking with in/out privileges. If you choose to self-park, a garage is located directly across the street from the hotel. The rate is \$28 for 24 hours with no in/out privileges.

Americans with Disabilities Act

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

Exhibits

Napoleon Ballroom, Fourth Floor

Exhibit Hall

The ASTMH 57th Annual Meeting features an exposition of displays by leading suppliers and vendors. A complete exhibitor and supporter directory is included on page 32.

Exhibit Hours

Sunday, December 7	7:30 p.m. – 9:30 p.m.
Monday, December 8	9:30 a.m. – 10:30 a.m.
	Noon – 1:30 p.m.
	3 p.m. – 4 p.m.
Tuesday, December 9	9:30 a.m. – 10:30 a.m.
	Noon – 1:30 p.m.
	3 p.m. – 4 p.m.
Wednesday, December 10	9:30 a.m. – 10:30 a.m.
	Noon – 2:30 p.m.

Solicitations

Sales and promotional activities are restricted to exhibitors and must take place in their assigned exhibit area. Solicitations by unauthorized persons are strictly prohibited.

Cyber Café

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

Press Room

The press room is located in the Ellendale and Evergreen rooms on the fourth floor. ASTMH press kits are available. Media announcements and other details can be found in the press room. Press room hours of operation are:

Sunday, December 7	10 a.m. – 4 p.m.
Monday, December 8	7:30 a.m. – 6:30 p.m.
Tuesday, December 9	7:30 a.m. – 6:30 p.m.
Wednesday, December 10	8 a.m. – 6:30 p.m.
Thursday, December 11	8 a.m. – Noon

Employment Opportunities

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

Career Center

Our online Career Center, available at www.astmh.org, features a wide range of available positions in the tropical medicine and hygiene field. Members can now post resumes anonymously and search for jobs by keyword, location and job type. Employers can set up an account, post open positions on the ASTMH Web site, buy classified ad space in the *American Journal of Tropical Medicine and Hygiene* and search the ASTMH resume bank for qualified applicants.

Camera/Recording Restrictions

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.

Meeting Room Directory

First Floor

Gallery Ballroom

Second Floor

Lagniappe (Cyber Café)
Waterbury Ballroom
Rhythms I
Rhythms II
Rhythms III

Third Floor

Maurepas
Napoleon Ballroom (Registration, Exhibit Hall)
Napoleon A123
Napoleon C123

Fourth Floor

Bayside A
Bayside BC
Crescent
Edgewood
Ellendale (Press Room)
Estherwood
Evergreen (Press Room)
Gallier

Fourth Floor (continued)

Nottoway (Speaker Ready Room)
Oak Alley
Oakley

Fifth Floor

Grand Ballroom A
Grand Ballroom B
Grand Ballroom C
Grand Ballroom D
Grand Ballroom E
Grand Chenier
Grand Couteau
Rampart

Eighth Floor

Armstrong Ballroom (Poster Hall)
Cornet (Poster Hall)
Salon 801
Salon 816 (Meeting Room Sign-Up)
Salon 817/821
Salon 824 (Meeting Room Sign-Up)
Salon 828
Salon 829



ASTMH 57th Annual Meeting

www.astmh.org

The American Journal of Tropical Medicine and Hygiene

Trial Journal Subscriptions

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

ASTMH Journal Symposium

Preparation and Review of Scientific Manuscripts for the American Journal of Tropical Medicine & Hygiene Mid-Day Session 86

Tuesday, December 9
12:15 p.m. – 1:15 p.m.
Grand Ballroom D

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

Program Information

Annual Meeting Audio Recordings

Can't figure out how to be in two places at once? Problem solved! With so much cutting-edge science available at the ASTMH conference, you can now purchase audio recordings of sessions you missed. Visit the sales desk in the registration area to purchase a CD and/or multimedia CD-ROM of the conference sessions from IntelliQuest Media. Discounts will be extended for on-site orders. Contact IntelliQuest Media at 866-651-2586 or visit www.intelliquestmedia.com.

Late Breaker Abstracts

Late Breaker Abstract Session 49

Late Breakers in Clinical Tropical Medicine

Monday, December 8
3:45 p.m. – 5:30 p.m.
Bayside BC

Late Breaker Abstract Session 50

Late Breakers in Basic Science/Molecular Biology

Monday, December 8
3:45 p.m. – 5:30 p.m.
Grand Ballroom A

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 afternoon. Poster late breaker presentations will take place during the poster sessions on Monday, Tuesday and Wednesday. A schedule of late breaker abstract presentations can be found in your registration packet.

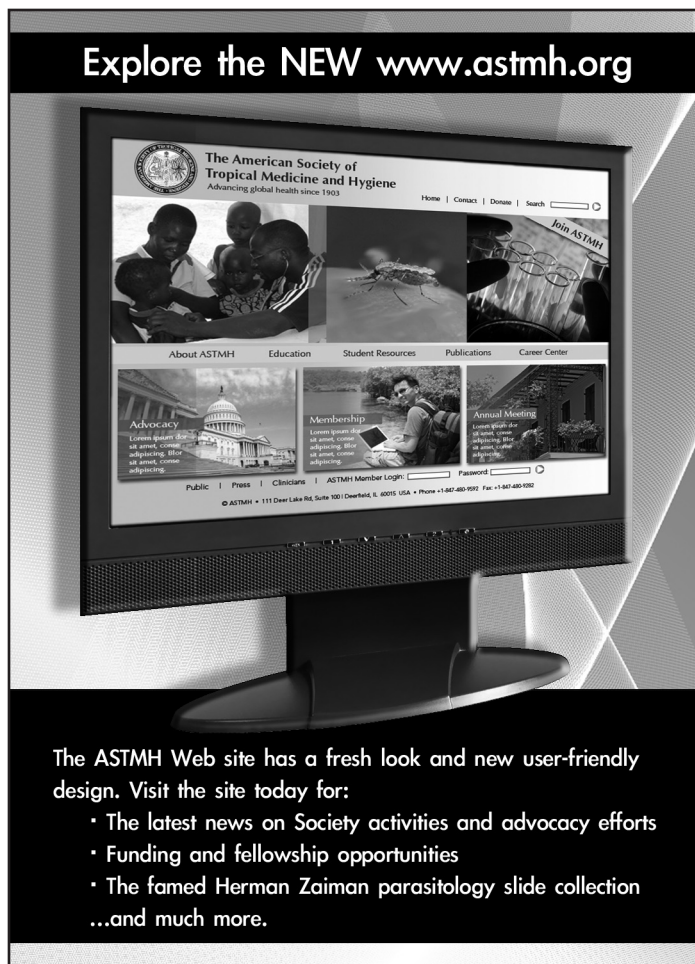
Meet the Professors

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

ACMCIP Abstracts

Throughout this book, you will notice that some abstracts are followed by the notation "(ACMCIP abstract)." This notation means the abstract submitter indicated that the abstract pertains to molecular, cellular or immunoparasitology. ACMCIP refers to the American Committee of Molecular, Cellular and Immunoparasitology, an ASTMH subgroup. For more information, go to <http://www.astmh.org/sic/acmcip.cfm>.

Explore the NEW www.astmh.org



The ASTMH Web site has a fresh look and new user-friendly design. Visit the site today for:

- The latest news on Society activities and advocacy efforts
- Funding and fellowship opportunities
- The famed Herman Zaiman parasitology slide collection
- ...and much more.



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

*Events featuring light meals denoted with an asterisk.

Young Investigator Award Presentations

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

Oak Alley, Rhythms I, Bayside A, Bayside B, Bayside C

Student Reception*

Sunday, December 7, 4 p.m. – 5 p.m.

Rhythms III/II

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

Symposium Session 12: Careers in Tropical Medicine – The Paths to Success Part I

Monday, December 8, 8 a.m. – 9:45 a.m.

Grand Ballroom D

Symposium Session 24: Careers in Tropical Medicine – The Paths to Success Part II

Monday, December 8, 10:15 a.m. – Noon

Grand Ballroom D

Mid-Day Session Session 27: Grad School or Peace Corps...Why Not Do Both?

Monday, December 8, 12:15 p.m. – 1:15 p.m.

Waterbury

Meet the Professors Session 28: Meet the Professors A: Enigmatic and Teaching Cases*

Monday, December 8, 12:15 p.m. – 1:15 p.m.

Grand Ballroom A

Symposium Session 80: Global Health Programs in University Settings: What's Out There

Tuesday, December 9, 10:15 a.m. – Noon

Grand Ballroom D

Meet the Professors Session 85: Meet the Professors B: Enigmatic and Teaching Cases*

Tuesday, December 9, 12:15 p.m. – 1:15 p.m.

Grand Ballroom A

Mid-Day Session Session 86: Preparation and Review of Scientific Manuscripts for the *American Journal of Tropical Medicine & Hygiene*

Tuesday, December 9, 12:15 p.m. – 1:15 p.m.

Grand Ballroom D

Symposium Session 129: Launching Careers in Tropical Disease Research: Progress Reports from The Burroughs Wellcome Fund/ASTMH Fellows

Wednesday, December 10, 10:15 a.m. – Noon

Grand Ballroom A

Meet the Professors Session 137: Meet the Professors C: Enigmatic and Teaching Cases*

Wednesday, December 10, 12:15 p.m. – 1:15 p.m.

Grand Ballroom A

Mid-Day Session Session 138: Wellcome Trust Public Health and Tropical Medicine Fellowships Masterclass

Wednesday, December 10, 12:15 p.m. – 1:15 p.m.

Grand Ballroom D

Elsevier Student Book Award Applicants

This award recognizes excellence in clinically-oriented research presented by students (within six months of completing undergraduate or master's level training, including medical undergraduate degrees) or those in graduate medical training, of work submitted and presented (oral or poster) at the ASTMH Annual Meeting. Support these young scientists by attending their presentations throughout the conference.

Abstract 61

Evaluation of Multi-Drug Therapy for Hansen's Disease in the U.S.A. Using Daily Rifampin

Mara Dacso

Abstract 97

Management of Childhood Diarrheal Disease in Gondar, Ethiopia

Rishi Mediratta

Abstract 322

Malaria Potentiates Experimental Mycobacterial Infection *in vitro* and *in vivo*

Michael Hawkes

Abstract 476

An Assessment of Blood Volumes in Relation to Symptom Resolution in Severely Anemic Malawian Children

Michael Esan

Abstract 506

Analysis of the Transcriptomic Response to West Nile Virus Infection in the Equine Host

Melissa Bourgeois

Abstract 653

The Status of the PfMSP3 N-Terminus as a Vaccine Candidate: Cross-Reactive Antibodies in Hypoendemic Transmission

Stephen Jordan

Abstract 765

Insensitive Acetylcholinesterase (ace-1R) of *Anopheles gambiae s.s.*: Events of Introgression and Duplication Between the M and S Molecular Forms

Luc Djogbenou

Abstract 827

Caring for the Mother and Child in an Integrated Health System: The Utility of a Postnatal Bridging Card

Eugene Richardson

Abstract 828

Biology is Destiny or Social Status Meets Sero-Status? Determinants of HIV Infection in Africa

Ashley Fox

Abstract 955

Detection of *Plasmodium knowlesi* by Real-Time PCR

Ngolela Babady

Abstract 1122

Examination of the Molecular Basis of Resistance to Artemisinin Drugs in *Plasmodium falciparum*

Matt Tucker

Abstract 2497

In vivo Assessment of Serum Th1 and Th2 Cytokines in Patients with Hydatid Cysts of the Liver

Francesca Tamarozzi



Clinical Session Guide

www.astmh.org

Clinical Pre-Meeting Course:

Malaria Eradication:

Calibrating Aspirations, Technology and Commitment

Saturday, December 6, 1 p.m. - 7:15 p.m.

Napoleon C123

Sunday, December 7, 7:30 a.m. - 3 p.m.

Grand Ballroom AB

Plenary Session I: Opening Plenary Session and Awards Ceremony

Sunday, December 7, 5:30 p.m. - 7:30 p.m.

Grand Ballroom

Symposium Session 4

Clinical Updates in Leishmaniasis, Chagas Disease, Leptospirosis and Tuberculosis

Monday, December 8, 8 a.m. - 9:45 a.m.

Rhythms IIIII

Symposium Session 16

Tropical Medicine in a Temperate Climate

Monday, December 8, 10:15 a.m. - Noon

Rhythms IIIII

Meet the Professors 28

Meet the Professors A: Enigmatic and Teaching Cases

Monday, December 8, 12:15 p.m. - 1:15 p.m.

Grand Ballroom A

Symposium Session 32

The Traveling Child: Medical Advice and Advances

Monday, December 8, 1:30 p.m. - 3:15 p.m.

Rhythms I

Late Breaker Session 49

Late Breakers in Clinical Tropical Medicine

Monday, December 8, 3:45 p.m. - 5:30 p.m.

Bayside BC

Plenary Session II: Charles Franklin Craig Lecture

Monday, December 8, 6 p.m. - 6:45 p.m.

Grand Ballroom C

Scientific Session 63

Clinical Tropical Medicine I

Tuesday, December 9, 8 a.m. - 9:45 a.m.

Bayside BC

Scientific Session 76

Clinical Tropical Medicine II

Tuesday, December 9, 10:15 a.m. - Noon

Bayside BC

Meet the Professors 85

Meet the Professors B: Enigmatic and Teaching Cases

Tuesday, December 9, 12:15 p.m. - 1:15 p.m.

Grand Ballroom A

Symposium Session 94

Clinical Group I

Tuesday, December 9, 1:30 p.m. - 3:15 p.m.

Grand Ballroom C

Symposium Session 104

Clinical Group II

Tuesday, December 9, 3:45 p.m. - 5:30 p.m.

Grand Ballroom C

Plenary Session III: Commemorative Fund Lecture

Tuesday, December 9, 6 p.m. - 6:45 p.m.

Grand Ballroom C

Symposium Session 117

Presumptive Therapy and Medical Screening of Migrating Refugees and Immigrants

Wednesday, December 10, 8 a.m. - 9:45 a.m.

Grand Ballroom B

Symposium Session 121

Post-Treatment Reactions in Loiasis: Clinical and Programmatic Implications

Wednesday, December 10, 10:15 a.m. - Noon

Gallery

Meet the Professors 137

Meet the Professors C: Enigmatic and Teaching Cases

Wednesday, December 10, 12:15 p.m. - 1:15 p.m.

Grand Ballroom A

Symposium Session 141

Benign Tertian Malaria? Examining Severe Disease Caused by *Plasmodium Vivax*

Wednesday, December 10, 1:30 p.m. - 3:15 p.m.

Rhythms IIIII

Symposium Session 154

Dengue in International Travelers

Wednesday, December 10, 3:45 p.m. - 5:30 p.m.

Rhythms IIIII

Plenary IV: Presidential Address and ASTMH Annual Business Meeting

Wednesday, December 10, 6 p.m. - 7:30 p.m.

Grand Ballroom C

Scientific Session 171

Clinical Tropical Medicine III

Thursday, December 11, 8 a.m. - 9:45 a.m.

Grand Ballroom C

Scientific Session 179

Clinical Tropical Medicine IV

Thursday, December 11, 10:15 a.m. - Noon

Grand Ballroom C

Poster Sessions

Armstrong Ballroom, Eighth Floor

Three poster sessions will be held at the ASTM 57th Annual Meeting in The Armstrong Ballroom on the eighth floor. There are additional times for poster viewing (presenters need not be in attendance during these time periods). We encourage attendees to visit the poster hall throughout the day. Poster viewing time is scheduled each day in the morning and afternoon.

Poster Session Schedule

Poster Session A Monday, December 8

Set-Up	9:45 a.m. – 10:15 a.m.
Presentations	Noon – 1:30 p.m.
Viewing	10:15 a.m. – Noon 1:30 p.m. – 7 p.m.
Dismantle	7 p.m. – 8 p.m.

Poster Session B Tuesday, December 9

Set-Up	9:45 a.m. – 10:15 a.m.
Presentations	Noon – 1:30 p.m.
Viewing	10:15 a.m. – Noon 1:30 p.m. – 7 p.m.
Dismantle	7 p.m. – 8 p.m.

Poster Session C Wednesday, December 10

Set-Up	9:45 a.m. – 10:15 a.m.
Presentations	Noon – 1:30 p.m.
Viewing	10:15 a.m. – Noon 1:30 p.m. – 7 p.m.
Dismantle	7 p.m. – 8 p.m.

Online Program

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 can be found in the Online Program Planner.

Speaker Ready Room and Audiovisual Facilities

Nottoway Room, Fourth Floor

Audio-visual preview and submission facilities are provided beginning Sunday, December 7 at noon in the Nottoway Room on the fourth floor. All oral presentations must use PowerPoint. Load your presentation in the Speaker Ready Room 24 hours prior to your session. If you are unable to do so, and you are speaking that day, please visit the Speaker Ready Room on the morning of your talk as early as possible.

Your presentation should be saved on a floppy disk, CD-R or memory stick. The CD-R should be in a version that can be read on any PC CD-ROM. If you use a Mac, make sure that your presentation is readable via PC PowerPoint. If your presentation includes a video and/or audio segment, it is very important that you visit the Speaker Ready Room and advise the AV techs of the video and/or audio piece.

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

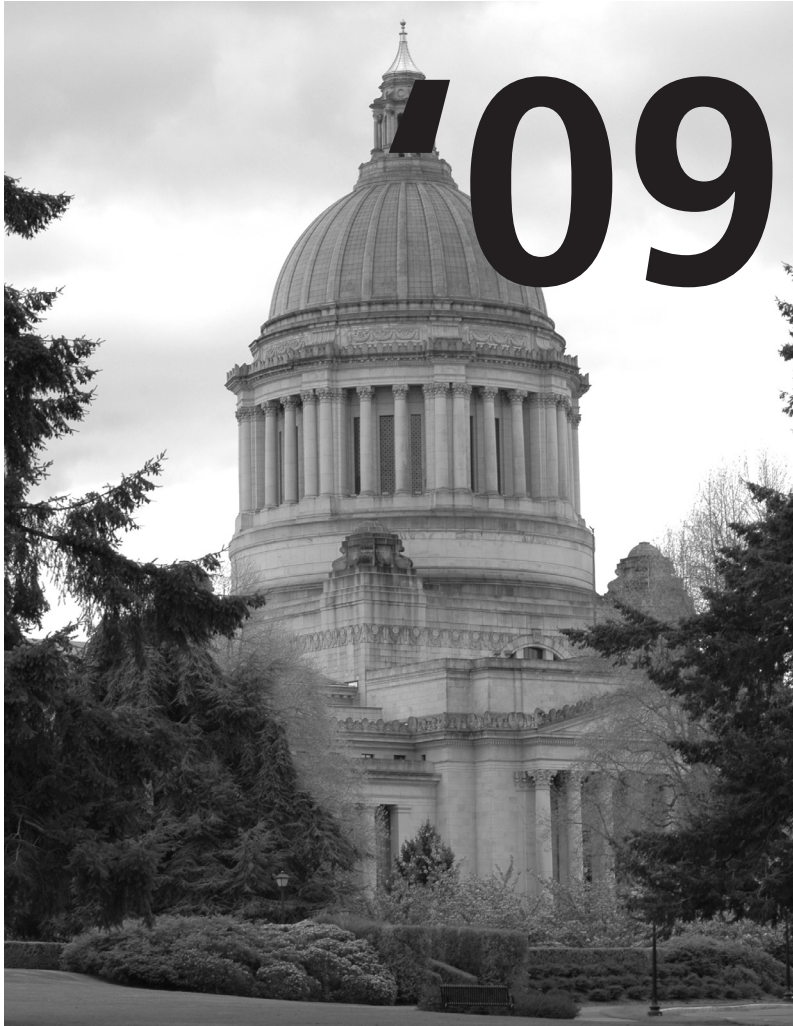
We strongly encourage you to pre-load your presentation in the Speaker Ready Room 24 hours prior to presentation time.

Speaker Ready Room Hours

Sunday, December 7	Noon – 6 p.m.
Monday, December 8	7 a.m. – 6 p.m.
Tuesday, December 9	7 a.m. – 6 p.m.
Wednesday, December 10	7 a.m. – 6 p.m.
Thursday, December 11	7 a.m. – Noon



MARK YOUR CALENDAR!



**ASTMH 58th Annual Meeting
November 18-22, 2009
Marriott Wardman Park
Washington, DC, USA**



**ASTMH 59th Annual Meeting
November 3-7, 2010
Atlanta Marriott Marquis
Atlanta, Georgia, USA**

American Society of Tropical Medicine and Hygiene

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Workers in Tropical Medicine Video Presentation

Napoleon Ballroom

Workers in Tropical Medicine:

Oral History Project Re-Initiated

Selected biographical videos of ASTMH members who have made important contributions to the field of tropical medicine will be shown at the annual meeting. A viewing station in the Napoleon Ballroom 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
- Karl Johnson



Alsta and Ottis Causey

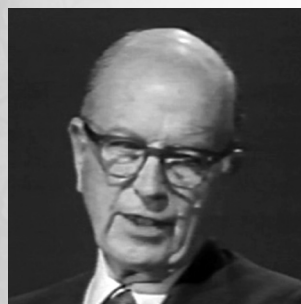


Thomas H. Weller

And others.....



Robert Coatney



Alexander Langmuir



Telford H. Work



57TH
ASTMH
 ANNUAL
 MEETING



William C. Reeves



Jordi Casals-Ariet



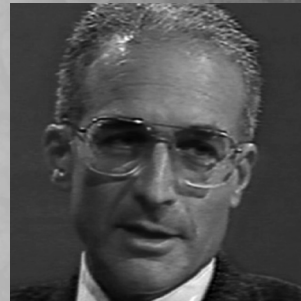
Karl Johnson



Albert Sabin



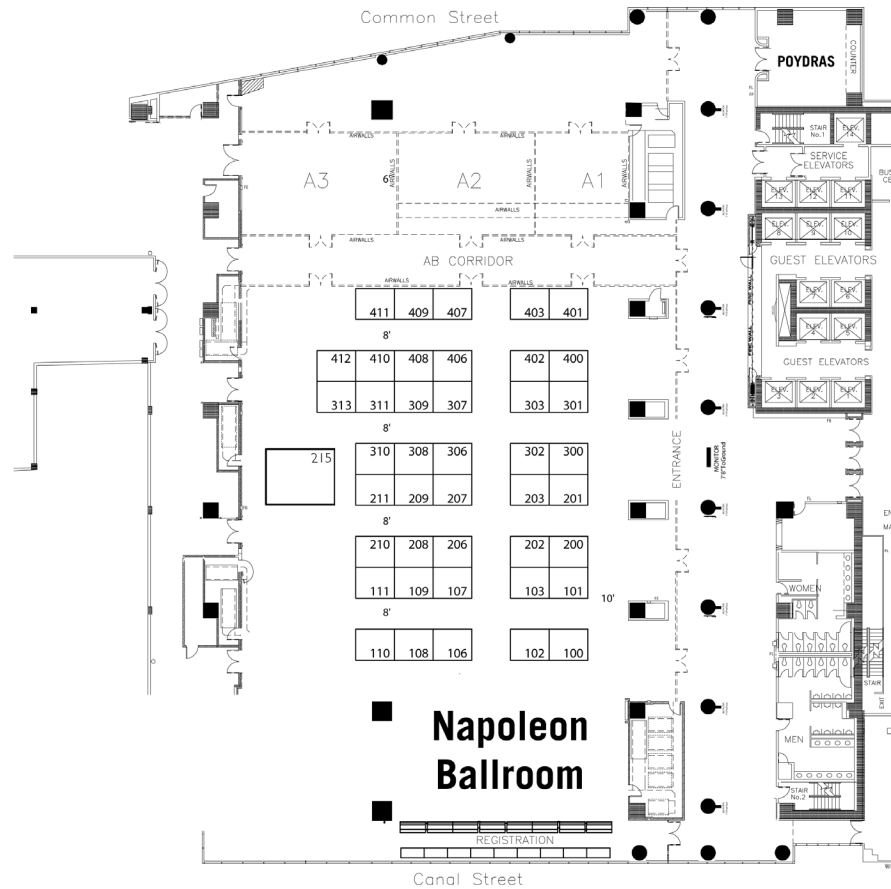
Karl F. Meyer



Thomas P. Monath



Exhibitor and Supporter Directory



Africa Health Placements (South Africa)

Contact: Therese Hansen
 1820 9th Ave W.
 Seattle, WA 98119
 Suite 265
 Dunkeld West Centre
 Johannesburg, South Africa
 Phone: 206-465-8824 USA +27 011 3281300 (South Africa)
 Fax: +27 011 3281301
 E-mail: theresehansen@gmail.com
 www.ahp.org.za
 Booth 111
 Africa Health Placements (AHP) is a South African non-profit organization recruiting Doctors to work in South Africa's rural hospitals. Broad-based clinical practice focuses on maternal and child health, infectious diseases and emergency care. AHP will assist you in finding a suitable position and provide you with highly-skilled registration/visa/logistical support.

American Society for Microbiology (ASM Press)

Contact: Jaclynn Martin
 1752 N St., NW
 Washington, DC 20036-2904
 Phone: 202-737-3600
 Fax: 202-942-9342
 E-mail: books@asmusa.org
 Booth 103
 ASM Press, the book publishing division of the American Society for Microbiology, will be exhibiting a selection of texts, references and general interest titles at the meeting. Be sure to stop by the ASM Press booth to see all the new offerings and classic titles in the microbiological sciences. ASM Press offers a 10 percent discount on all purchases made at the meeting.

Bill & Melinda Gates Foundation

P.O. Box 23350
 Seattle, WA 98102
 Phone: 206-709-3100
 E-mail: info@gatesfoundation.org
 Guided by the belief that every life has equal value, the Bill & Melinda Gates Foundation works to help all people lead healthy, productive lives. In developing countries, it focuses on improving people's health and giving them the chance to lift themselves out of hunger and extreme poverty. In the United States, it seeks to ensure that all people—especially those with the fewest resources—have access to the opportunities they need to succeed in school and life. Based in Seattle, the foundation is led by CEO Jeff Raikes and co-chair William H. Gates Sr., under the direction of Bill and Melinda Gates and Warren Buffett. www.gatesfoundation.org



Exhibitor and Supporter Directory

Burroughs Wellcome Fund/The Wellcome Trust

Contact: Jean Kramarik
21 TW Alexander Drive
Research Triangle Park, NC 27709-3901
Phone: 919-991-5122
Fax: 919-991-5182
E-mail: jkramarik@bwfund.org
Booth 202

The Burroughs Wellcome Fund is an independent private foundation dedicated to advancing the biomedical science by supporting research and other scientific and educational activities. The Wellcome Trust is an independent charity funding research to improve human and animal health.

Carramore International Ltd

Contact: Alasdair Grant
Units 10-11
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Miry Lane
Holmfirth HD9 7RW
United Kingdom
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Fax: +44 1484 690 456
E-mail: a.grant@carramore.com
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Clinical Research Management

Contact: Caylee Ortega
411 Aviation Way
Suite 220
Frederick, MD 21701
Phone: 301-620-1987
Fax: 301-662-2236
E-mail: cortega@clinicalrm.com
Booth 402

Clinical Research Management, Inc. is a full service clinical research organization (CRO) providing a full range of clinical research services to support pre-clinical testing, product manufacturing, regulatory compliance and managing clinical trials.

Drugs for Neglected Diseases *initiative* (DNDi)

Contact: Michelle French
7 World Trade Center, 250 Greenwich St., 40th Fl.
New York, NY 10007-2157
Phone: 212-298-3743
Fax: 212-300-3673
E-mail: mfrench@dndi.org
Booth 209

DNDi is a needs-driven, not-for-profit product development partnership working to research and develop new treatments for neglected diseases such as sleeping sickness (HAT), visceral leishmaniasis (VL), Chagas disease, and malaria. Founded in 2003 by four publicly-funded research institutes from India, Malaysia, Kenya, and Brazil along with Institut Pasteur and MSF, DNDi has developed the largest ever R&D portfolio for the kinetoplastid diseases and has already released two new anti-malarial drugs. For further information, visit www.dndi.org.

Elsevier Saunders Mosby Churchill Publishers

Contact: Steven Lowry
PO Box 360446
Birmingham, AL 35236
Phone: 205-542-7755
Fax: 205-988-3352
E-mail: s.lowry@elsevier.com
Booth 200

The latest in Medical Publications for health professionals. New Cook and Zumia Manson's Tropical Medicine text with on line version. New Jong Travel and Tropical Medicine Manual. Also the 2008 CDC Health Information and Travel Guide.

European Malaria Vaccine Initiative

Contact: Roland Ventura
c/o Statens Serum Instiut
Building 202/323
AR TilleriveJ5
Copenhagen-S, DK-2300
Denmark
Phone: +45 32 68 3798
Fax: +45 32 68 3144
E-mail: oly@ssi.dk

Booth 411
The European Malaria Vaccine Initiative (EMVI) contributes financially and technically to nationally and internationally funded malaria vaccine research and development. EMVI provides a funding mechanism to further experimental vaccine candidates through to limited industrial production and early phase clinical trials, in close collaboration with the African Malaria Network Trust. In addition, EMVI provides a forum for academics, industry, regulatory agencies and vaccine producers interested in developing an efficacious and affordable malaria vaccine.



Exhibitor and Supporter Directory

GlaxoSmithKline

Three Franklin Plaza
1600 Vine Street
Philadelphia, PA 19101
Phone: 800-366-8900
www.gsk.com
Booth 400

GlaxoSmithKline is a leading research-based pharmaceutical company with a powerful combination of skills to discover and deliver innovative medicines. We offer a number of programs to support effective health management strategies and improve patient care. Please visit our exhibit to learn more about our products.

Insect Shield Repellent Technology

Contact: Jason Griffin
814 West Market Street
Greensboro, NC 27401
Phone: 336-272-4157
Fax: 336-275-7604
E-mail: publicrelations@buzzoff.com
Booth 206

Insect Shield® Repellent Technology provides long-lasting, effective and odorless insect protection. The durable protection provided by Insect Shield apparel, gear and global health products is the result of years of research and testing. Insect Shield products combine the patent-pending Insect Shield process with a proprietary formulation of the insect repellent permethrin. Insect Shield® has been proven and registered by the United States Environmental Protection Agency (EPA) to repel many species of insects including those that can carry dangerous diseases. For more information please visit www.insectshield.com.

International Association for Medical Assistance to Travelers (IAMAT)

40 Regal Road
Guelph, ON N1K 1B5 Canada
Phone: 519-836-0102
Fax: 519-836-3412
E-mail: info@iamat.org

IAMAT is a non-profit organization dedicated to travel health. As an advocate for travelers' health, IAMAT has provided independent and accurate travel health advice since 1960. The organization also coordinates a network of highly qualified doctors worldwide for travelers in need of medical attention during their journey. Since 2002, IAMAT has awarded scholarships and grants to doctors and nurses from developing countries to study and train in the field of travel medicine. IAMAT was founded by the late Dr. Vincenzo Marcolongo, a specialist in tropical medicine who dedicated his life to the prevention of infectious diseases in travelers.

International Society of Travel Medicine

Contact: Brenda Bagwell
2386 Clower St., Suite A102
Snellville, GA 30078
Phone: 770-736-7060
Fax: 770-736-0313
E-mail: admindir@istm.org
Booth 303

The International Society of Travel Medicine (ISTM) is committed to the promotion of healthy and safe travel. In cooperation with national and International health care providers, academic centers, the travel industry and the media. ISTM advocates and facilitates education, service and research activities in the field of travel medicine.

London School of Hygiene & Tropical Medicine

Contact: Paul Shanley
50 Bedford Square
London WC1B 3DP
United Kingdom
Phone: +44-20-7299-4646
Fax: +44 73323-0638
E-mail: registry@lshtm.ac.uk
Booth 307

The School offers 18 London-based taught Masters degrees (1 year FT/ 2 years PT) and four via distance learning. Research students can undertake either the MPhil/PhD programme or DrPH (Doctor of Public Health). Masters courses are comprised of a broad range of modules taught by expert academic staff. These modules are also offered as part of our Short Study Programme, which includes Diploma, Certificate and shorter courses covering all aspects of the School's work.

Macro International Inc.

Contact: Erin Eckert
11785 Beltsville Dr.
Suite 300
Beltsville, MD 20705
Phone: 301-572-0200
Fax: 301-572-0991
Booth 408

Macro International is dedicated to improving lives worldwide through social research and health informatics. We work with governments, businesses, and international organizations to assess emerging public health challenges, improve interventions, and expand the impact of successful programs.



Exhibitor and Supporter Directory

Malaria Research and Reference Reagent Resource Center (MR4)

Contact: Timothy T. Stedman
10801 University Blvd
Manassas, VA 20110
Phone: 703-365-2765
Fax: 703-365-2774
E-mail: malaria@atcc.org
Booth 310

The Malaria Research and Reference Reagent Resource Center (MR4) provides a central resource for reagents, protocols, information and workshops to the international malaria research community. Supported by the National Institutes of Health (NIH) National Institute of Allergy and Infectious Diseases (NIAID), the MR4 repository collects and distributes parasites, mosquito vectors, and many other biological reagents, free of production charges, to registered malaria research laboratories. MR4 is managed through the American Type Culture Collection (ATCC).

Mary Ann Liebert, Inc.

Contact: Lisa Pierce
140 Huquenot St.
New Rochelle, NY 10801
Phone: 914-740-2100
Fax: 914-740-2101
E-mail: info@liebertpub.com
Take One Table

Mary Ann Liebert, Inc., recognized as a Certified Woman-Owned Business, is a privately held, fully integrated media company known for establishing authoritative peer-reviewed journals in promising areas of science, biomedical research, and law, including Vector-Borne and Zoonotic Disease and Foodborne Pathogens and Disease, both Medline-Indexed Journals. A complete list of the firm's over 60 journals, books and news magazines is available at www.liebertpub.com. Visit our display in the 'Take One' Area!

Medicines for Malaria Venture

Contact: Anna Wang
Route de Pre-Bois 20
CH-1215 Geneva 15
Switzerland
Phone: +41 22 799 4060
Fax: +41 22 799 4061
E-mail: wanga@mmv.org
Booth 207

Medicines for Malaria Venture (MMV) is a non-profit organization created to discover, develop and deliver effective and affordable antimalarial drugs through public-private partnerships. Our vision is a world in which these innovative medicines will cure and protect the millions at risk of malaria and help to ultimately eradicate this terrible disease.

Merrick & Company-Facilities, Science and Technology Unit

Contact: Dr. Robert (Ross) Graham
2450 South Peoria Street
Aurora, CO 80014-5475
Phone: 703-680-6086
Fax: 703-680-6086
E-mail: ross.graham@merrick.com
Booth 409

Merrick & Company is an employee-owned, national A/E design firm, with over 400 employees located in Colorado, New Mexico, Georgia and Canada. Founded in 1955, Merrick provides full service architecture and engineering, construction management, and commissioning services to Federal clients including the USDA, DOD, DOE and DHS as well as universities and institutions, international and private clients. We have been a single-source provider of services for analytical, research laboratories and high containment facilities for over 20 years with our area of expertise originally focused on agencies and facilities involved in animal and plant research. Merrick is consistently registered in the top 200 of Engineering News Record's "Top 500 Design Firms" and has received numerous quality achievement awards for outstanding service since its inception. We are committed to sustainable design practices and our design firm has consistently implemented sustainable design principles in not only energy conservation, but pollution prevention, waste reduction, and recycled materials on all designs.

National Institute of Allergy and Infectious Diseases

Contact: Julie Marquardt
6610 Rockledge Drive MSC 6612
Bethesda, MD 20892-6612
Phone: 866-284-4107
Booth 208

The National Institute of Allergy and Infectious Diseases conducts and supports basic and applied research to better understand, treat, and ultimately prevent infectious, immunologic, and allergic diseases. NIAID staff will distribute printed information and answer questions on these subjects. Recruiters will be present to discuss employment opportunities at NIAID.

Exhibitor and Supporter Directory

National Research Council of the National Academies

Contact: Judith K. Nyquist, Ph.D.
3541 39th Street NW, Keck 568
Washington, DC 20001
Phone: 202-334-2760
Fax: 202-334-2759
E-mail: jnyquist@nas.edu
Booth 203

The National Research Council of the National Academies offers awards in all areas of science and engineering for postdoctoral and senior research to be conducted at participating U.S. government laboratories and affiliated centers. Awards include generous stipend, relocation, professional travel and health insurance. Duration is one year renewable up to three years. For detailed information, including instructions on how to apply online, see www.national-academies.org/rap. Annual application deadlines: February 1, May 1, August 1, November 1.

Novartis Pharma AG.

Contact: Nadia elMasry
Forum 2-P03, Novartis Pharma AG-Malaria Initiatives
Basel, CH-4056
Switzerland
Phone: +44 61 324 5015
Fax: +41 61 324 2146
E-mail: nadia.elmasry@novartis.com
Booth 215

Novartis offers a wide range of healthcare products through our Pharmaceuticals, Vaccines and Diagnostics, Sandoz and Consumer Health Divisions. Our complementary healthcare businesses address the changing needs of patients and societies worldwide. With innovative pharmaceuticals at the core, we are also a global leader in generics, vaccines and consumer health products. We believe this targeted portfolio best meets the challenges and opportunities in a dynamically changing healthcare environment.

Novartis Vaccines

Contact: Laura Wesolowski
350 Massachusetts Ave.
Cambridge, MA 02139
Phone: 862-778-6299
E-mail: laura.wesolowski@novartis.com
Booth 410

Novartis Vaccines and Diagnostics is a division of Novartis focused on the development of preventive treatments. The division has two businesses: Novartis Vaccines and Chiron. Novartis Vaccines is the world's fifth-largest vaccines manufacturer and second-largest supplier of flu vaccines in the US. The division's products also include meningococcal, pediatric and travel vaccines. Chiron, the blood testing and molecular diagnostics business, is dedicated to preventing the spread of infectious diseases through the development of novel blood-screening tools that protect the world's blood supply.

Paladin Labs

Contact: Fernando Koremblum
6111 Royalmount Ave. #102
Montreal, Quebec H4P 2T4
Canada
Phone: 514-340-1112 x 3034
514-340-1112
Fax: 514-340-7836
E-mail: fkoreembl@paladin-labs.com
Booth 109

IMPAVIDO (Miltefosine), Impavido® is the first oral drug for the treatment of visceral and cutaneous leishmaniasis. Impavido® has been proven to be highly effective and less toxic than current therapies.

Pfizer, Inc.

Contact: Richa Chandra
50 Pequot Ave., MS6025-B3112
New London, CT 06320
Phone: 860-732-5532
Fax : 860-686-6128

E-mail: richa.s.chandra@pfizer.com
Pfizer Inc: Working together for a healthier world™
Founded in 1849, Pfizer is the world's largest research-based pharmaceutical company taking new approaches to better health. We discover, develop, manufacture and deliver quality, safe and effective prescription medicines to treat and help prevent disease for both people and animals. We also partner with healthcare providers, governments and local communities around the world to expand access to our medicines and to provide better quality health care and health system support. At Pfizer, more than 80,000 colleagues in more than 90 countries work every day to help people stay happier and healthier longer and to reduce the human and economic burden of disease worldwide.

Public Library of Science (PLOS)

Contact: Shabnam Sigman
185 Berry Street, Suite 3100
San Francisco, CA 94107
Phone: 415-624-1201
Fax: 415-546-4090
E-mail: plos@plos.org
Booth 101

Public Library of Science (PLOS.org) is committed to making the world's scientific and medical literature a freely available public resource. Our open access, peer-reviewed journals (PLOS Neglected Tropical Diseases, PLOS Pathogens, PLOS Biology, PLOS Medicine, PLOS Genetics, PLOS Computational Biology, and PLOS ONE) reach the widest possible audience. Everything we publish is automatically deposited in PubMed Central---making it easy for researchers to be NIH-compliant.

Exhibitor and Supporter Directory

QBC Diagnostics

Contact: Tom Fuller
200 Innovation Blvd
Suite 212
State College, PA 16803
Phone: 814-231-7660
Fax: 814-231-3118
E-mail: qbcsales@qbcdiag.com
Booth 401

QBC Diagnostics combines point-of-care medicine with advanced tropical disease diagnosis, creating a versatile laboratory package serving remote locations with tropical health concerns. The QBC Autoread provides a unique, simple hematology system, affording a CBC analysis from a finger stick. Combined with the fluorescent capabilities of the ParaLens, clinicians are provided with the highest level of sensitivity for the diagnosis of many tropical diseases. The QBC suite of instruments will significantly expand your tropical diagnostic capabilities.

Royal Society of Tropical Medicine and Hygiene

Contact: Gerri McHugh
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London WC1B 3DP
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Fax: +44 207 436 1389
E-mail: gerri.mchugh@rstmh.org
Booth 106

The objectives of the Society are to promote and advance the study, control and prevention of diseases in man and other animals in the tropics and sub-tropics, facilitate discussion and exchange of information among those who are interested in tropical diseases and international health, and generally to promote the work of those interested in these objectives.

Salix Pharmaceuticals, Inc.

Contact: Mark Droke
1700 Perimeter Park Drive
Morrisville, NC 27560
Phone: 919-862-1000
Fax: 919-862-1095
Booth 108
Salix Pharmaceuticals, Inc. follows a competitive strategy of in-licensing late-stage pharmaceutical products to treat GI diseases. The Salix portfolio includes COLAZAL®, XIFAXAN®, OsmoPrep®, MOVIPREP®, AZASAN®, ANUSOL-HC®, PROCTOCORT®, PEPCID® Oral Suspension, and DIURIL® Oral Suspension. Exceptional customer service, a dedicated specialty sales force, and quality products underscore Salix's commitment to the gastroenterology community.

sanofi-aventis

Contact: Frederique Bornier
82 Avenue
Raspail Gentilly Cedex
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Fax: +33 14 124 5784
E-mail: frederique.bornier@sanofi-aventis.com
Booth 306 and 308

Sanofi-aventis, a leading global pharmaceutical company, discovers, develops and distributes therapeutic solutions to improve the lives of everyone. Sanofi-aventis is listed in Paris (EURONEXT : SAN) and in New York (NYSE : SNY).

sanofi pasteur

Contact: Kim Quinn
Discovery Dr.
Swiftwater, PA 18370
Phone: 570-957-3473
Fax: 800-565-5756
E-mail: kim.quinn@sanofipasteur.com
Booth 300 and 302

Sanofi Pasteur Inc., the vaccines division of sanofi aventis Group, provides pediatric, adult, and travel vaccines for diseases such as diphtheria, tetanus, pertussis, polio, *Haemophilus influenzae* type b, influenza, rabies, Japanese encephalitis, typhoid fever, yellow fever, and meningococcal disease. To learn more about our products, visit our exhibit.

Sawyer Products

Contact: Amy Reed
605 7th Ave N
Safety Harbor, FL 34695
Phone: 800-356-7811
Fax: 727-725-1954
E-mail: feedback@sawyer.com
Booth 403

Sawyer Products has been providing the highest available technology in insect repellents and sun blocks to the market since 1984. Our most recent addition to our product line is the newest, most technically advanced water filtration system. Using Hollow Fiber Membranes we have achieved the highest level of bacterial and viral protection available while eliminating chemicals, pumping and wait time for your water. Our filters are rated for 1 MILLION Gallons of Water.

Scimedx Corporation

Contact: Michael Petrone
100 Ford Rd.
Suite 100-08
Denville, NJ 07834
Phone: 973-625-8822
Fax: 973-625-8796
E-mail: info@scimedx.com
Booth 100

Scimedx Corporation is a highly flexible diagnostic manufacturer with over 30 years of experience in the autoimmune and infectious disease testing market. Scimedx's recent acquisition of PanBio's IFA and Latex Infectious assays makes them the number one manufacturer of IFA tests worldwide. IFA products include West Nile, RSV, VZV, R, rickettsii, E. chaffeensis and HHV 6, 7, & 8. Also included in Scimedx's extensive viral and infectious menu of assays are rapid tests for Malaria and Dengue Fever.

Exhibitor and Supporter Directory

SCYNEXIS, Inc.

Contact: Terry Marquardt
PO Box 12878
Research Triangle Park, NC 27709-2878
Phone: 919-544-8600
Fax: 919-544-8697
E-mail: terry.marquardt@scynexis.com
Booth 309 and 311

SCYNEXIS is a premier drug discovery and development company that delivers effective and innovative drug pipeline solutions for human and animal health to pharmaceutical and global health partners on either a fee-for-service or a shared risk basis. SCYNEXIS has developed highly productive capabilities to discover and develop drug compounds from early discovery with assay development and screening, through lead optimization and candidate selection, and beyond proof of concept in humans with cGMP synthesis and manufacturing.

Shin Poong Pharm. Co. LTD.

Contact: Soon Pil Lim
748-31 Yoksam-Dong, Kanfnam-Gu
Seoul 135-925
Korea
Phone: +82 2 2189 3475
Fax: +82 2 2189 2866
E-mail: splim@Shinpoong.co.kr
Booth 406

Shin Poong has been a major worldwide supplier of API as well as finished formulation for mebendazole and albendazole which are treatments for soil-transmitted helminthiasis, and praziquantel, which is treatment for schistosomiasis through public sector business with WHO and World Bank since the mid 1980's. Major schistosomiasis eradication campaigns carried out with praziquantel include Delta project in Egypt and China Project. Also Shin Poong is developing a new ACT anti-malarial drug with Medicines for Malaria Venture (MMV) and WHO since 1999.

sigma-tau SpA

Contact: Andreas Diedenhofen MD
Director, International Medical Marketing Affairs
Socio Unico
Via Pontina km 30,400
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Phone: +39 06 9139.36.28
Fax: +39 06 9139.40.00

Email: andreas.diedenhofen@sigma-tau.it

Sigma-Tau Pharmaceuticals, Inc.

Contact: Marc Tewey, MBA
Vice President, Commercial Operations
9841 Washingtonian Blvd., Ste 500
Gaithersburg, MD 20878
Phone: 301-670-1518
Fax: 301-948-1862

Email: Marc.Tewey@sigmatau.com

Sigma-Tau is a leading research-based pharmaceutical company headquartered in Pomezia, Italy with more than 2,500 employees worldwide. Sigma-Tau focuses its research and development on cardiovascular disease, metabolism, oncology, immunology, and the central and peripheral nervous systems. Sigma-Tau is also dedicated to creating novel therapies for the unmet needs of patients with rare diseases. Truly unique in its field, Sigma-Tau places its considerable scientific resources behind the discovery, development and distribution of compounds that benefit the few. Sigma-Tau has operating subsidiaries throughout Europe and the United States and maintains a presence in all of the world's major pharmaceutical markets.

Sustainable Sciences Institute (NGO)

Contact: Josefina Coloma
870 Market St., Suite 764
San Francisco, CA 94102
Phone: 415-772-0939
Fax: 415-772-9059

E-mail: ssi@ssilink.org

Take One Table

Sustainable Sciences Institute (SSI) is an international NGO, dedicated to developing scientific capacity in areas with pressing health problems, via education, training, and support of locally relevant scientific projects. By building local health research capacity, SSI empowers developing country researchers to solve infectious disease problems in their communities. By providing training in low-cost and appropriate techniques, SSI promotes sustainability, and strengthens the local research and health infrastructure in the areas of laboratory, epidemiology, manuscript and grant writing, bioinformatics, bioethics, and information and communication technologies for health.

Exhibitor and Supporter Directory

TechLab, Inc.

2001 Kraft Drive
Blacksburg, VA 24060-6358
Phone: 540-953-1664
Fas: 540-953-1665
E-mail: techlab@techlab.com

TechLab, Inc. develops, manufactures and distributes rapid non-invasive intestinal diagnostics in the areas of intestinal inflammation, antibiotic associated diarrhea and parasitology. The company continues its research on markers of intestinal inflammation, the toxins of *Clostridium difficile*, amebiasis and vaccine development. TechLab is registered with the U.S. Food and Drug Administration and is ISO 13485 certified.

The University of Chicago Press

Contact: Jennifer Ringblom
1427 East 60th Street
Chicago, IL 60637
Phone: 773-702-7363
Fax: 773-834-7201
E-mail: jringblom@press.uchicago.edu
Booth 210

Established in 1891, the University of Chicago Press is the largest American university press. The Press currently publishes nearly 50 leading journals and serials, in a wide range of disciplines including The Journal of Infectious Diseases, Clinical Infectious Diseases, and Infection Control & Hospital Epidemiology. Chicago also publishes approximately 250 books a year, and has published 11,000 books since its founding.

Tulane University Department of Tropical Medicine

Contact: Ron Cail
1440 Canal St. 2210
New Orleans, LA 70112
Phone: 504-988-5199
Fax: 504-988-7313
E-mail: rcail@tulane.edu
Booth 201

Department of Tropical Medicine Degree Programs:
> MSPH (Master's of Science in Public Health)
> MPH & TM (Master's of Science in Public Health)
> PhD (Doctorate of Philosophy in Parasitology)
> Diploma Course in Traveler's Health

University of Pennsylvania / EuPathDB

Contact: Omar Harb, Ph.D.
1403 Blockley Hall Center for Bioinformatics
Philadelphia, PA 19104-6021
Phone: 215-746-7019
Fax: 215-573-3111
E-mail: oharb@pcbi.upenn.edu
Booth 301
The Eukaryotic Pathogens database (www.EuPathDB.org) is an integrated database for protozoan pathogens and provides a functional resource for *Cryptosporidium spp.*, *Giardia lamblia*, *Plasmodium spp.*, *Toxoplasma gondii* and *Trichomonas vaginalis*. EupathDB provides a venue to analyze and query functional data from each of the maintained organisms, including transcript and protein expression evidence, population biology data (isolates and single nucleotide polymorphisms), gene annotations and orthology profiles. EupathDB representatives will answer questions, help with queries and distribute materials.

University of Texas Medical Branch

Contact: Amy Ogden
301 University Blvd
Galveston, TX 77555-111
Phone: 409-772-8460
Fax: 409-772-8921
E-mail: alogden@utmb.org
Booth 211 and Take One Table

Walter Reed Army Institute of Research

Peter D'Arpa
503 Robert Grant Avenue
Silver Spring, MD 20910-7500
Phone: 301-319-7549
Fax: 301-319-9743
E-mail: peter.darpa@us.army.mil
Booth 102

WRIAR is DoD's largest biomedical research laboratory. WRIAR conducts bench-to-bedside R&D -- developing diagnostics, vaccines and drugs to detect, prevent and treat traumatic injuries and infectious diseases. With facilities in the US for human sleep studies, veterinary medicine, pilot GMP vaccine/biological manufacture, and a dedicated clinical trials center -- and overseas laboratories in Asia and Africa conducting product development where tropical diseases are endemic -- WRIAR, independently and through collaboration with university and industry partners, is improving soldier and world health.

WHO/TDR

Contact: Jamie Guth
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Geneva 27 1211
Switzerland
Phone: +41 79 441 2289
Fax: +41 22 791 4854
E-mail: guthj@who.int
Booth 407
Documentation and information about the UNDP/ UNICEF/World Bank/WHO Special Programme for Research and Training in Tropical Diseases.

Friday, December 5**Pre-Meeting Course Registration***Gallery***Friday, December 5, 4 p.m. – 6 p.m.****Saturday, December 6****Pre-Meeting Course Registration***Napoleon Ballroom Registration Desk***Saturday, December 6, 7 a.m. – 1:30 p.m.****ASTMH Certificate of Knowledge Exam***Napoleon B123***Saturday, December 6, 8 a.m. – Noon****Pre-Meeting Course****Whole Genome Association Studies:
Understanding the Genetic Basis of
Susceptibility to Infectious Diseases***Napoleon A123***Saturday, December 6, 8:30 a.m. – 4:30 p.m.**

This course targets scientists, physicians, clinicians, graduate students and educators with interests in the rapidly evolving field of whole genome association studies and how these approaches can be used to understand the basis for susceptibility or resistance to infectious diseases. Topics will include an overview of whole genome association, a review of the state-of-the-art in technology development, an overview of computational analyses and biostatistics and a discussion of some of the bioethical considerations associated with these studies.

CHAIR

Daniel J Carucci
United Nations Foundation, Washington, DC, United States

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

Dominic Kwiatkowski
Wellcome Trust Center for Human Genetics, Oxford, United Kingdom

8:30 a.m.**COFFEE AND LIGHT CONTINENTAL BREAKFAST****9 a.m.****INTRODUCTION – COURSE GOALS AND OUTLINE**

Daniel J. Carucci
United Nations Foundation, Washington, DC, United States

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

Dominic Kwiatkowski
Wellcome Trust Center for Human Genetics, Oxford, United Kingdom

9:15 a.m.**INTRODUCTION TO WHOLE GENOME ASSOCIATION STUDIES**

Dominic Kwiatkowski
Wellcome Trust Center for Human Genetics, Oxford, United Kingdom

10 a.m.**TECHNOLOGIES AND APPROACHES**

Speaker to be announced

10:45 a.m.**COMPUTATIONAL ANALYSES AND BIostatISTICS**

Paul DeBakker
Broad Institute, Cambridge, MA, United States

11:30 a.m.**LUNCH (ON YOUR OWN)****1 p.m.****BIOETHICAL ISSUES IN WHOLE GENOME ASSOCIATION STUDIES**

Abdoulaye Djimde
University of Bamako, Bamako, Mali

1:30 p.m.**WHOLE GENOME ASSOCIATION STUDIES (MALARIA)**

Kerrin Small
Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom

2 p.m.**WHOLE GENOME ASSOCIATION STUDIES (HIV)**

Dongliang Ge
Duke Institute, Durham, NC, United States

3 p.m.**BREAK****3:30 p.m.****WHOLE GENOME ASSOCIATION STUDIES (TUBERCULOSIS)**

Fred Vannberg
Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom



ASTMH 57th Annual Meeting

www.astmh.org

Sunday, December 7

4 p.m.

PANEL DISCUSSION: IMPLICATION FOR IMPACT ON DISEASES OF THE DEVELOPING WORLD

Moderator

John Reeder
Burnet Institute for Medical Research and Public Health, Melbourne, VIC, Australia

Pre-Meeting Course

Malaria Eradication: Calibrating Aspirations, Technology and Commitment

Supported with funding from the Bill & Melinda Gates Foundation

Napoleon C123

Saturday, December 6, 1 p.m. – 5:45 p.m.

In the past five years, there has been an enormous change in the financing and implementation of malaria prevention and treatment to meet agreed upon uptake goals, and this process had already been accelerated under the concept of "Scaling up for Impact," which is based on the potential for higher impact when the control program is scaled up rapidly rather than incrementally. A number of countries, supported by major financing agencies, have made commitments to drive malaria control interventions up to optimize impact. This course is designed to provide the participant an exposure to experts in the range of relevant topics to review the historical and contemporary issues that frame global malaria control strategies and programming. The course will focus on providing participants a broad interactive opportunity to learn about the rationale, feasibility and strategic approaches to intensification of malaria control.

CHAIR

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

Bernard Nahlen
President's Malaria Initiative, U.S. Agency for International Development, Washington, DC, United States

David Brandling-Bennett
Bill & Melinda Gates Foundation, Seattle, WA, United States

1 p.m.

INTRODUCTION — COURSE GOALS AND OUTLINE

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

Bernard Nahlen
President's Malaria Initiative, U.S. Agency for International Development, Washington, DC, United States

David Brandling-Bennett
Bill & Melinda Gates Foundation, Seattle, WA, United States

1:15 p.m.

MALARIA CONTROL OVERVIEW 2000-2008

Bernard Nahlen
President's Malaria Initiative, U.S. Agency for International Development, Washington, DC, United States

Mac Otten
World Health Organization, Geneva, Switzerland

2:30 p.m.

LESSONS ON ERADICATION

Randall Packard
Johns Hopkins University, Baltimore, MD, United States

Linda Venczel
Bill & Melinda Gates Foundation, Seattle, WA, United States

3:30 p.m.

MALARIA CONTROL: CONTROL- ELIMINATION- ERADICATION- COUNTRY CASE PERSPECTIVES

Hoda Yousef Atta
World Health Organization, Cairo, Egypt.

Abdullah Ali
Zanzibar Malaria Control Program, Zanzibar, United Republic of Tanzania.

Keith Carter
Pan American Health Organization, Hyattsville, MD, United States

5 p.m.

SUMMARY OF KEY ISSUES FROM DAY 1 AND CONTENT FOR DAY 2

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

Sunday, December 7

Pre-Meeting Course

Malaria Eradication: Calibrating Aspirations, Technology and Commitment

Supported with funding from the Bill & Melinda Gates Foundation

Grand Ballroom AB

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

7:30 a.m.

COFFEE AND CONTINENTAL BREAKFAST

8 a.m.

THE EPIDEMIOLOGIC FRAMEWORK FOR ELIMINATION AND ERADICATION

Richard W. Steketee
PATH, Seattle, WA, United States

8 a.m.

THE EPIDEMIOLOGIC FRAMEWORK FOR ELIMINATION AND ERADICATION

G. Dennis Shanks
Australian Army Malaria Institute, Enoggera, QLD, Australia

Detailed Program

9:30 a.m.

THE RESEARCH AGENDA: MAPPING AND FILLING GAPS IN OUR KNOWLEDGE AND TOOLS TO ELIMINATION AND ERADICATION

Pedro Alonso
*Centro de Investigacao em saude de Manhica (CISM),
Barcelona, Spain*

10:30 a.m.

BREAK

11:30 a.m.

THE POLITICAL AND FINANCING REQUIREMENTS FOR MALARIA ERADICATION

Richard Feachem
*University of California at San Francisco, San Francisco, CA,
United States*

12:30 p.m.

LUNCH (ON YOUR OWN)

1:30 p.m.

A GLOBAL MALARIA STRATEGIC AND BUSINESS PLAN

James Banda
World Health Organization, Geneva, Switzerland
Regina Rabinovich
Bill & Melinda Gates Foundation, Seattle, WA, United States

2:45 p.m.

WRAP-UP

David Brandling-Bennett
Bill & Melinda Gates Foundation, Seattle, WA, United States

ASTMH Council Meeting

Waterbury
Sunday, December 7, 8 a.m. – 3:30 p.m.

Registration

Napoleon Ballroom
Sunday, December 7, 9:30 a.m. – 6 p.m.

Press Room

Ellendale/Evergreen
Sunday, December 7, 10 a.m. – 4 p.m.

Young Investigator Award Poster Set-Up

Sunday, December 7, 10 a.m. – 10:45 a.m.
Information about location posted at ASTMH registration desk.

Cyber Cafe

Lagniappe
Sunday, December 7, Noon – 6 p.m.

ACAV SIE Subcommittee Meeting

Salon 817/821
Sunday, December 7, 11 a.m. – Noon

Young Investigator Award Presentations

*In Honor of William A. Petri, Sr.
In Memory of Annie Liberati
Supported with funding from TechLab, Inc.*

ASTMH will present the Young Investigator Award to outstanding young researchers during the 57th Annual Meeting. This award encourages developing young scientists to pursue careers in various aspects of tropical disease research.

Young Investigator Award Session A

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

JUDGES

Subash Babu
National Institutes of Health, Bethesda, MD, United States
Stephen Davies
Uniformed Services University of the Health Sciences, Bethesda, MD, United States
Daniel J. Tisch
Case Western Reserve University, Cleveland, OH, United States

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CARING FOR THE MOTHER AND CHILD IN AN INTEGRATED HEALTH SYSTEM: THE UTILITY OF A POSTNATAL BRIDGING CARD

Eugene Richardson¹, Robert Pattinson², Anne-Marie Bergh², Elsie Etsane², Jenny Makin²
¹*Yale University School of Medicine, New Haven, CT, United States*, ²*University of Pretoria, Pretoria, South Africa*



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LANDSCAPE GENETICS REVEALS FOCAL TRANSMISSION OF *ASCARIS LUMBRICOIDES*

Charles D. Criscione¹, Dan Sudimack², Joel D. Anderson³, Janardan Subedi⁴, Dev R. Rai², Ram P. Upadhayay², Bharat Jha⁵, Kimberly D. Williams⁶, Sarah Williams-Blangero², Timothy J. Anderson²

¹Department of Biology, Texas A&M University, College Station, TX, United States, ²Department of Genetics, Southwest Foundation for Biomedical Research, San Antonio, TX, United States, ³Perry R. Bass Marine Fisheries Research Station, Coastal Fisheries Division, Texas Parks and Wildlife Department, Palacios, TX, United States, ⁴Department of Sociology and Gerontology, Miami University, Oxford, OH, United States, ⁵Tribhuvan University Institute of Medicine, Kathmandu, Nepal, ⁶Lifespan Health Research Center, Department of Community Health, Boonshoft School of Medicine, Wright State University, Dayton, OH, United States

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DIAGNOSTIC ACCURACY OF *LEISHMANIA* OLIGOC-TEST FOR THE DIAGNOSIS OF CUTANEOUS LEISHMANIASIS IN PERU

Diego Espinosa¹, Andrea K. Boggild², Stijn Deborggraeve³, Thierry Laurent⁴, Cristian Valencia¹, César Miranda-Verástegui¹, Alejandro Llanos-Cuentas¹, Thierry Leclipteux⁴, Jean-Claude Dujardin³, Philippe Büscher³, Jorge Arévalo¹

¹Instituto de Medicina Tropical "Alexander von Humboldt", Universidad Peruana Cayetano Heredia, Lima, Peru, ²Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, ON, Canada, ³Department of Parasitology, Institute of Tropical Medicine, Antwerp, Belgium, ⁴Coris BioConcept, Gembloux, Belgium

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ANTI-*WOLBACHIA* ANTIBODIES MAY DECREASE THE LIKELIHOOD OF ACUTE ADENOLYMPHANGITIS IN LYMPHATIC FILARIASIS

Edsel Maurice T. Salvana¹, Katrin Daehnel², Amy G. Hise³, Eric Pearlman², Daniel J. Tisch³, James W. Kazura³

¹Division of Infectious Diseases and HIV Medicine, University Hospitals Case Medical Center and Case Western Reserve University, Cleveland, OH, United States, ²Department of Ophthalmology, University Hospitals Case Medical Center and Case Western Reserve University, Cleveland, OH, United States, ³Center for Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States

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MEMORY B CELL RESPONSES IN PATIENTS WITH DEHYDRATING DIARRHEA CAUSED BY *VIBRIO CHOLERAE* O1

Aaron M. Harris¹, Jason B. Harris², Md. Saruar Bhuiyan³, Fahima Chowdhury³, Ashraful I. Khan³, Abu S. Faruque³, Regina C. LaRocque², Edward T. Ryan², Firdausi Qadri³, Stephen B. Calderwood²

¹Tufts University School of Medicine, Boston, MA, United States, ²Massachusetts General Hospital, Boston, MA, United States, ³International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh

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WOLBACHIA SEQUENCES IN THE CHROMOSOMAL GENOME OF *ONCHOCERCIA FLEXUOSA* INDICATE PAST *WOLBACHIA* ENDOSYMBIOSIS

Samantha N. McNulty

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

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THE EFFECT OF PRAZIQUANTEL TREATMENT ON THE GENETIC DIVERSITY OF *SCHISTOSOMA MANSONI* INFECTIONS IN PRIMARY SCHOOL CHILDREN WITHIN MAYUGE DISTRICT, UGANDA

Poppy H. Lambertson¹, Alice J. Norton¹, Alan Fenwick¹, Narcis Kabatereine², Joanne P. Webster¹

¹Imperial College London, London, United Kingdom, ²Vector Control Division, Ministry of Health, Kampala, Uganda

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IDENTIFICATION OF *RICKETTSIA* FROM TICK SPECIES COLLECTED IN TENNESSEE

Sara B. Cohen¹, Michael J. Yabsley², J. D. Freye³, Brett G. Dunlap³, John R. Dunn¹, Daniel G. Mead², Timothy F. Jones¹, Abelardo C. Moncayo¹

¹Tennessee Department of Health, Nashville, TN, United States, ²Southeastern Cooperative Wildlife Disease Study, University of Georgia, Athens, GA, United States, ³United States Department of Agriculture, Animal and Plant Health Inspection Service, Wildlife Services Program, Nashville, TN, United States

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USE OF HETEROLOGOUS MICROARRAY HYBRIDIZATION TO IDENTIFY GENES INVOLVED IN MOSQUITO INFECTIVITY FOR *BRUGIA PAHANGI* MICROFILARIAE

Kathryn Griffiths¹, George Mayhew², Rebecca Zink¹, Sara Erickson², Jeremy Fuchs², Bruce Christensen², Colleen McDermott¹, Michelle Michalski¹

¹University of Wisconsin Oshkosh, Oshkosh, WI, United States, ²University of Wisconsin Madison, Madison, WI, United States

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CHRONIC HELMINTH INFECTION INCREASES THE THRESHOLD OF ACTIVATION FOR BASOPHILS AND MAST CELLS

David Larson, Marina N. Torrero, Marc P. Hübner, Edward Mitre
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

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ALLEVIATING THE BURDEN OF LYMPHEDEMA IN TARABA STATE, NIGERIA VIA COMMUNITY-BASED REHABILITATION (CBR)

Lola E. Adigun¹, Stanley O. Foster¹, Henry B. Perry III², Oladele Akogun³
¹Emory University, Atlanta, GA, United States, ²Future Generations, Franklin, WV, United States, ³Common Heritage Foundation, Yola, Nigeria

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DEVELOPING BRUGIA MALAYI/BRUGIA PAHANGI HYBRIDS AS A TOOL FOR MOSQUITO INFECTIVITY STUDIES

Rebecca Zink¹, Kathryn Griffiths¹, Sara Erickson², Jeremy Fuchs², Bruce Christensen², Michelle Michalski¹
¹University of Wisconsin Oshkosh, Oshkosh, WI, United States, ²University of Wisconsin Madison, Madison, WI, United States

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CLIMATIC FACTORS, ENTOMOLOGIC ATTRIBUTES AND EPIDEMICS OF DENGUE IN TAIWAN, 1998 – 2006

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A PRINCIPAL COMPONENTS ANALYSIS OF IMMUNE PARAMETERS ASSOCIATED WITH RESISTANCE TO REINFECTION WITH *SCHISTOSOMA MANSONI*

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INHIBITION OF *ANCYLOSTOMA CEYLANICUM* MACROPHAGE MIGRATION INHIBITORY FACTOR (ACEMIF): POTENTIAL FOR PREVENTING HOOKWORM-ASSOCIATED IMMUNOMODULATION AND DISEASE PATHOGENESIS

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MODELING WEST NILE VIRUS TRANSMISSION AMONG BIRDS IN CONNECTICUT

Jennifer E. Simpson¹, Alison Galvani¹, Jan Medlock¹, Goudarz Molaei², Theodore Andreadis², Maria Diuk-Wasser¹
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MOLECULAR CHARACTERIZATION OF FATTY ACID BINDING PROTEINS FROM THE HOOKWORM *ANCYLOSTOMA CEYLANICUM*

Keke C. Fairfax, Jon J. Vermeire, Richard D. Bungiro, Lisa M. Harrison, Sohail Husain, Michael Cappello
 Yale University, New Haven, CT, United States

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HISTAMINE DOES NOT PLAY A ROLE IN VACCINE-MEDIATED IMMUNITY AGAINST MURINE FILARIASIS

Ellen C. Mueller
 Uniformed Services University, Bethesda, MD, United States

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***RICKETTSIA FELIS* INFECTION IN A MURINE MODEL.**

Kathryn E. Reif, Rhett W. Stout, Timothy W. Morgan, Kevin R. Macaluso
 Louisiana State University, Baton Rouge, LA, United States

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EFFECTIVENESS OF HEALTH EDUCATION INTERVENTION TRIAL TO REDUCE PORCINE CYSTICERCOSIS IN NORTHERN TANZANIA

Helena A. Ngowi¹, Hélène Carabin², M. R. Mlozi¹, Ayub A. Kassuku¹, J. E. Mlangwa¹, A. Lee Willingham³
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Young Investigator Award Session B

Rhythms I

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

JUDGES

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RABIES IN BATS IN TWO COMMUNITIES IN PERU AFTER AN OUTBREAK IN 2007

Gabriela Salmon-Mulanovich¹, Christian Albújar¹, Carolina Guevara¹, Alicia Vasquez², Alberto Laguna¹, Milagros Salazar³, Hernán Zamalloa¹, Marcia Cáceres⁴, Tadeusz Kochel¹, Carlos Contreras⁴, Felix R. Jackson⁵, Charles E. Rupprecht⁵, Joel M. Montgomery¹¹*Naval Medical Research Center Detachment, Lima, Peru,*²*Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima, Peru,*³*University of Texas Medical Branch, Galveston, TX, United States,*⁴*Dirección de Salud, Madre de Dios, Peru,*⁵*Centers for Disease Control and Prevention, Atlanta, GA, United States*

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LARVAL ANOPHELINE MOSQUITO RECTA EXHIBIT A DRAMATIC CHANGE IN ION TRANSPORT PROTEINS IN RESPONSE TO SHIFTING SALINITY

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UNDERSTANDING BATS ACCESS TO DATE PALM SAP: IDENTIFYING PREVENTATIVE TECHNIQUES FOR NIPAH VIRUS TRANSMISSION

M. S.U. Khan, Nazmun Nahar, Rebeca Sultana, M. Jahangir Hossain, Emily S. Gurley, Stephen P. Luby
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

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BIOCHEMICAL AND KNOCKDOWN RESISTANCE OF ANOPHELES GAMBIAE TO PERMETHRIN AND DELTAMETHRIN (PYRETHROIDS) AT KPONE ON SEA IN THE GREATER ACCRA REGION OF GHANA

Kwadwo K. Frempong¹, Isabella Quakyi², Sulley K. Ben-Mahmoud³, Irene Offei Owusu¹, Maxwell A. Appawu¹, Daniel Boakye¹¹*Noguchi Memorial Institute For Medical Research, Accra, Ghana,*²*School of Public Health, University of Ghana, Accra, Ghana,*³*African Regional Postgraduate Programme in Insect Science (ARPPIS), University of Ghana, Accra, Ghana*

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THE MITOCHONDRIA CYTOCHROME OXIDASE 1 DNA SEQUENCES DEFINE ECOLOGICAL DISTRIBUTION OF ANOPHELES GAMBIAE SPECIES COMPLEX IN GHANA

Dziedzom K. de Souza¹, Michael D. Wilson², Charles A. Brown², Bernard W. Lawson³, Daniel A. Boakye²¹*Noguchi Memorial Institute for Medical Research/Department of Theoretical and Applied Sciences, Kwame Nkrumah University of Science and Technology, Accra/Kumasi, Ghana,*²*Noguchi Memorial Institute for Medical research, Accra, Ghana,*³*Department of Theoretical and Applied Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana*

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SCABIES: EMERGING IVERMECTIN RESISTANCE IN A NEGLECTED ECTOPARASITIC DISEASE

Kate E. Mounsey¹, James S. McCarthy¹, Deborah C. Holt², Cielo Pasay¹, Bart J. Currie³, Shelley F. Walton²¹*Queensland Institute of Medical Research, University of Queensland, Brisbane, Australia,*²*Menzies School of Health Research, Charles Darwin University, Darwin, Australia,*³*Northern Territory Clinical School, Flinders University, Darwin, Australia*

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TRANSMISSION OF NIPAH BY DATE PALM SAP, BANGLADESH 2008

Muhammad Aziz Rahman¹, M. Jahangir Hossain², Sharmin Sultana³, Shahed Sazzad², Nusrat Homaira¹, Sayma Afroze³, Mahmudur Rahman³, Emily Gurley², Stephen P. Luby⁴¹*International Center for Diarrhoeal Disease Research, Bangladesh and IEDCR (Institute of Epidemiology, Disease Control and Research), Dhaka, Bangladesh,*²*International Center for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh,*³*Institute of Epidemiology, Disease Control and Research, Dhaka, Bangladesh,*⁴*International Center for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh and Centers for Disease Control and Prevention, Atlanta, Georgia, USA*

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THE ROLE OF KEY PTEN SPLICE VARIANTS ON REPRODUCTION AND LIFESPAN IN THE MOSQUITO Aedes Aegypti

Anam Javed, Jessica Brown, Michael A. Riehle
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PREVENTING NIPAH VIRUS INFECTION: INTERVENTIONS TO INTERRUPT BATS ACCESSING DATE PALM SAP

Nazmun Nahar, Rebeca Sultana, Elizabeth Oliveras, Utpal Kumar Mondal, M. Jahangir Hossain, Emily S. Gurley, M. Saiful Islam, M. S. Khan, Stephen P. Luby
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NEWLY ISOLATED MUTANTS OF DENGUE VIRUS TYPE 1 WITH DELETIONS IN THE 3' NONCODING REGION SHOW HIGHER LEVELS OF REPLICATION *IN VIVO* IN MOSQUITOES

Yoko Nukui¹, Shigeru Tajima¹, Makiko Ikeda¹, Akira Kotaki¹, Tomohiko Takasaki¹, Yuki Eshita², Ichiro Kurane¹
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MOSQUITOES PUT THE BRAKE ON EVOLUTION: EXPERIMENTAL EVOLUTION REVEALS SLOWER MUTATION ACCUMULATION IN MOSQUITO CELLS THAN VERTEBRATE CELLS

Nikos Vasilakis¹, Eleanor Deardorf¹, Joanie Kenney¹, Shannan L. Rossi¹, Kathryn A. Hanley², Scott C. Weaver¹
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RNA INTERFERENCE (RNAI) OF RIBOSOMAL PROTEIN S3A (RPS3A) SUGGESTS A LINK BETWEEN THIS GENE AND ARRESTED OVARIAN DEVELOPMENT DURING ADULT DIAPAUSE IN *CULEX PIPIENS*

Mijung Kim
The Ohio State University, Columbus, OH, United States

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GENETIC STRUCTURE IN THE ARBOVIRAL VECTOR *CX. TARSALIS*: A SPATIAL ANALYSIS OF POPULATION DIFFERENTIATION ACROSS THE WESTERN UNITED STATES

Meera Venkatesan, Jason L. Rasgon
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CYTOKINE EXPRESSION IN A HAMSTER MODEL OF HANTAVIRUS PULMONARY SYNDROME

Martin H. Richter, Mary Louise Milazzo, Eduardo J. Eyzaguirre, Charles F. Fulhorst
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HOME POULTRY RAISING PRACTICES IN BANGLADESH: THE SETTING FOR ANIMAL TO HUMAN INFLUENZA TRANSMISSION

Rebeca Sultana, M. Saiful Islam, Nazmun Nahar, Nadia A. Rimi, Rouha A. Sarkar, Emily S. Gurley, Elizabeth Oliveras, M. S. Khan, M. Jahangir Hossain, Stephen P. Luby
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AVIAN INFLUENZA IN WILD BIRDS FROM THE CENTRAL COAST OF PERU

Bruno M. Gherzi¹, David Blazes¹, Eliana Icochea², Rosa I. Gonzalez², Tadeusz Kochel¹, Yeny Tinoco³, Merly Sovero¹, Stephen Lindstrom⁴, Bo Shu⁴, Alexander Klimov⁴, Armando E. Gonzalez², Joel M. Montgomery¹
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MATERNAL-FETAL TRANSMISSION OF CHIKUNGUNYA VIRUS IN MICE

Sarah A. Ziegler, Amelia P. Travassos da Rosa, Shu-Yuan Xiao, Robert B. Tesh
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REPLIVAX WN, A SINGLE-CYCLE FLAVIVIRUS VACCINE, IS SAFE AND EFFICACIOUS IN A RHESUS MACAQUE MODEL OF WEST NILE DISEASE

Douglas G. Widman¹, Tomohiro Ishikawa¹, Ricardo Carrion², Nigel Bourne¹, Peter W. Mason¹
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THE AGING MOSQUITO: INCREASED INSULIN SIGNALING IN THE MIDGUT OF *AN. STEPHENSI* REDUCES LIFESPAN

Laurel Watkins de Jong, Michael Riehle
University of Arizona, Tucson, AZ, United States

Young Investigator Award Session C

Bayside A

Sunday, December 7, 2008 11 a.m. – 3:30 p.m.

JUDGES

Roland A. Cooper

Old Dominion University, Norfolk, VA, United States

Miriam Laufer

University of Maryland, Baltimore, MD, United States

Julian C. Rayner

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

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MODELLING THE POTENTIAL IMPACT OF ARTEMISININ COMBINATION THERAPIES AND LONG-LASTING DRUG COMBINATIONS ON MALARIA TRANSMISSION INTENSITY: A CASE STUDY IN TANZANIA

Lucy Okell¹, Chris Drakeley¹, Teun Bousema², Chris J. Whitty¹, Azra C. Ghani³¹*London School of Hygiene and Tropical Medicine, London, United Kingdom*, ²*Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands*, ³*Imperial College, London, United Kingdom*

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CHANGES IN MICRORNAS EXPRESSED BY HUMAN MACROPHAGES AS A RESULT OF *LEISHMANIA CHAGASI* INFECTION**Anne M. Dickson¹**, Anton McCaffrey¹, Mary E. Wilson²¹*Department of Internal Medicine, University of Iowa, Iowa City, IA, United States*, ²*Departments of Internal Medicine, Microbiology and Epidemiology, University of Iowa and the VA Medical Center, Iowa City, IA, United States*

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METACYCLOGENESIS ALTERS RECEPTOR-MEDIATED UPTAKE OF *LEISHMANIA CHAGASI* PROMASTIGOTES BY HUMAN MONOCYTE-DERIVED MACROPHAGES**Norikiyo Ueno**, Nilda E. Rodriguez, Carol L. Bratt, Mary E. Wilson*University of Iowa, Iowa City, IA, United States*

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SAP1 IS A SELECTIVE MASTER REGULATOR OF MALARIA PARASITE LIVER INFECTION

Ahmed S. Aly, Stefan H. Kappe*Seattle Biomedical Research Institute, Seattle, WA, United States*

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HDP- A NOVEL HEME DETOXIFICATION PROTEIN IN THE MALARIA PARASITE.

Rana Nagarkatti¹, Dewal Jani¹, Wandy Beatty², Ross Angel³, Carla Slebodnick³, John Andersen⁴, Sanjai Kumar⁵, Dharmendar Rathore¹¹*Virginia Bioinformatics Institute, Blacksburg, VA, United States*, ²*Washington University School of Medicine, St. Louis, MO, United States*, ³*Virginia Polytechnic Institute and State University, Blacksburg, VA, United States*, ⁴*Laboratory of Malaria and Vector Research, National Institutes of Health, Rockville, MD, United States*, ⁵*Food and Drug Administration, Bethesda, MD, United States*

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REAL-TIME *IN VIVO* IMAGING OF LIVER STAGES OF *PLASMODIUM YOELII*: GFP/LUCIFERASE REPORTER PARASITES**Agnes Mwakingwe¹**, Li-Min Ting¹, Sarah Hochman¹, John Chen², Richard Novick², Photini Sinnis³, Kami Kim¹¹*Albert Einstein College of Medicine, Bronx, NY, United States*, ²*Skirball Institute, New York University School of Medicine, New York, NY, United States*, ³*Medical Parasitology, New York University School of Medicine, New York, NY, United States*

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AFM STUDY OF THE EXTRACELLULAR AND THE CYTOPLASMIC SURFACES OF *PLASMODIUM FALCIPARUM* INFECTED ERYTHROCYTE MEMBRANES**Hui Shi**, Ang Li, Jing Yin, Kavin Tan, Chwee Teck Lim*National University of Singapore, Singapore, Singapore*

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IDENTIFICATION OF POTENTIAL TARGET GENES FOR MALARIA VACCINE DEVELOPMENT BY DIFFERENTIAL EXPRESSION PROFILING OF RADIATION-ATTENUATED *PLASMODIUM FALCIPARUM* SPOOROZOITESBenjamin U. Hoffman¹, Charlie Xiang², Michael Brownstein²,**Anusha M. Gunasekera¹**¹*Sanaria, Inc, Rockville, MD, United States*, ²*J. Craig Venter Institute, Rockville, MD, United States*

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APPLICATION OF A BIOLUMINESCENT *LEISHMANIA MAJOR* IMAGING MODEL TO THE DEVELOPMENT OF A NOVEL KILLED BUT METABOLICALLY ACTIVE WHOLE CELL VACCINE**Jacquelyn N. Haskell¹**, Ron A. Birnbaum¹, Veena Vanchinathan¹, Tamiko Konishi¹, Stephen M. Beverley², Kevin W. Bruhn¹, Noah Craft¹¹*Los Angeles Biomedical Research Institute, Division of Dermatology, Harbor-UCLA Medical Center, UCLA School of Medicine, Torrance, CA, United States*, ²*Washington University School of Medicine, St. Louis, MO, United States*

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ANALYSIS OF GENE EXPRESSION AND EVOLUTIONARY PROCESS IN *LEISHMANIA (VIANNIA) BRAZILIENSIS* AND *LEISHMANIA (VIANNIA) PERUVIANA* MODEL

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IDENTIFICATION OF A NOVEL FAMILY OF VARIANT SURFACE ANTIGENS IN *PLASMODIUM FALCIPARUM*

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YFV-INDUCED CYTOKINE EXPRESSION IN HUMAN HEPATOCYTES

Sara E. Woodson, Michael R. Holbrook

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DISTINCT ROLES OF *PLASMODIUM RHOMBOID 1* IN PARASITE DEVELOPMENT AND MALARIA PATHOGENESIS

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SINGLE MOLECULAR FORCE SPECTROSCOPY STUDY OF *PLASMODIUM FALCIPARUM*-INFECTED ERYTHROCYTE CYTOADHERENCE TO ENDOTHELIAL RECEPTORS

Ang Li, Tong Seng Lim, Hui Shi, Jing Yin, Shyong Wei Tan, Chwee Teck Lim

National University of Singapore, Singapore, Singapore

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P. VIVAX POPULATION GENETICS IN PERU AND VIETNAM: A COMPARATIVE STUDY USING MICROSATELLITES MARKERS

Peter Van den Eede¹, Gert Van Der Auwera¹, Annette Erhart¹, Chantal Van Overmeir¹, Jozef Anné², Umberto D'Alessandro¹

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GENETIC VARIATION AMONG *PLASMODIUM VIVAX* PRIMATE ISOLATES AND THE IMPLICATION FOR VACCINE DEVELOPMENT

Francis B. Ntumngia¹, Amy M. McHenry², John W. Barnwell³, Jennifer Cole-Tobian⁴, Christopher L. King⁴, John H. Adams¹

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ANALYSIS OF THE TRANSCRIPTOMIC RESPONSE TO WEST NILE VIRUS INFECTION IN THE EQUINE HOST

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ANALYSIS OF *PLASMODIUM FALCIPARUM* QUANTITATIVE TRAIT LOCI DETERMINING DIFFERENTIAL INFECTIVITY TO *ANOPHELES* MOSQUITOES

Jonathan Mwangi, Lisa Ranford-Cartwright

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SPECIFIC INHIBITION OF THE PHOSPHOETHANOLAMINE METHYLTRANSFERASE OF THE HUMAN MALARIA PARASITE *PLASMODIUM FALCIPARUM* BY AMODIAQUINE

April M. Bobenchik, Arunima Mishra, Bing Hao, Iulian N. Rujan, Jeffrey C. Hoch, Choukri Ben Mamoun

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

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IDENTIFICATION, CHARACTERIZATION, AND EVALUATION OF THE *TRYPANOSOMA BRUCEI* CA²⁺ CHANNEL (TBCC1) AS A POTENTIAL DRUG AND VACCINE TARGET

Kiantra I. Ramey¹, Francis O. Eko¹, Nana Wilson¹, Zuzana Kucerova², Winston Thompson¹, Jonathan K. Stiles¹

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TRANSCRIPTIONAL ANALYSIS OF PUTATIVE FOLATE TRANSPORTER GENES IN *PLASMODIUM FALCIPARUM*

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Young Investigator Award Session D

Bayside B

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

JUDGES

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David Williams
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Yimin Wu
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MANAGEMENT OF CHILDHOOD DIARRHEAL DISEASE IN GONDAR, ETHIOPIA

Rishi P. Mediratta¹, R. Bradley Sack²
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C5A POTENTIATES DYSREGULATED INFLAMMATORY AND ANGIOGENIC RESPONSES IN PREGNANCY-ASSOCIATED MALARIA

Andrea L. Conroy¹, Constance Finney¹, Lena Serghides¹, Simon O. Owino², D. Channe Gowda³, W. Conrad Liles¹, Julie M. Moore², Kevin C. Kain¹
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GENETIC HITCHHIKING, SELECTIVE SWEEPS, AND MULTIPLE ORIGINS OF DRUG RESISTANT *PLASMODIUM FALCIPARUM* IN THREE DISTINCT POPULATIONS

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PROTEOMIC ANALYSIS OF THE PHOP REGULON IN *SALMONELLA ENTERICA* SEROVARS TYPHI AND TYPHIMURIUM

Richelle C. Charles¹, Jason B. Harris¹, Lauren M. Lebrun¹, Michael Chase¹, Alaulah Sheikh², Regina C. Larocque¹, Brian Krastins³, David Saracino³, Ian Rosenberg³, Abdullah Tarique², Stephen B. Calderwood¹, Elizabeth Hohmann¹, Firdausi Qadri², Kenneth Parker³, Edward T. Ryan¹
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NITRIC OXIDE DEPLETION AND ENDOTHELIAL DYSFUNCTION IN CHILDREN WITH MALARIA AND MARKED ANEMIA

Jacqueline Janka¹, Ousmane A. Koita², Maya Josepha², Broulayé Traoré³, Fawaz Mzayek⁴, Lansana Sangare², Ousmane Cissé², Laurel Mendelsohn¹, Xunde Wang¹, Henry Masur¹, Mark Gladwin¹, Donald J. Krogstad⁴
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ACTIVITY OF AQUEOUS METHANOL AND WATER EXTRACTS OF *OSYRIS LANCEOLATA* ON ATCC 2592223 *STAPHYLOCOCCUS AUREUS* AND CLINICAL ISOLATES OF *STAPHYLOCOCCUS AUREUS*

Edna A. Ooko¹, Dr. Peter Lomo¹, Dr. Paul O. Ongugo², Dr. Christine Bii³, Prof. Ahmed Hassanali⁴
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THE LAMBARÉNÉ-ORGAN-DYSFUNCTION SCORE (LODS) IS A SIMPLE CLINICAL PREDICTOR FOR FATAL MALARIA IN AFRICAN CHILDREN

Raimund Helbok¹, Eric Kendjo², Saadou Issifou², Peter Lackner³, Charles R. Newton⁴, Maryvonne Kombila⁵, Tsiri Agbenyega⁶, Klaus Dietz⁷, Kalifa Bojang⁸, Erich Schmutzhard³, Peter G. Kremsner²
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ROLE OF RED CELL COMPLEMENT REGULATORY PROTEINS IN ERYTHROPHAGOCYTOSIS DURING *PLASMODIUM CHABAUDI* INFECTION

Juliana V. Harris¹, Catherine N. Stracener¹, Xiaobo Wu², Dirk Spitzer², John P. Atkinson², José A. Stoute¹
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TAENIA SOLIUM CYSTICERCOSIS IN NATURALLY INFECTED PIGS: VIABILITY OF CYSTICERCUS AND PERSISTENCY OF SPECIFIC ISOTYPE ANTIBODIES AND CYSTICERCAL ANTIGENS AFTER TREATMENT WITH OXFENDAZOLE

Chummy S. Sikasunge¹, Maria V. Johansen², Lee A. Willingham III³, Pall S. Leifsson⁴, Isaac K. Phiri¹
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TRANSPLACENTAL TRANSFER OF ANTIBODIES TO THE FETUS THAT COULD PROTECT INFANTS FROM MALARIA

Patrick T. Wilson¹, Peter Mungai², Indu Malhotra², Chris King², Arlene Dent¹
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IDENTIFICATION OF MOLECULAR MARKERS IN *PLASMODIUM FALCIPARUM* ISOLATES ASSOCIATED TO MEFLUQUINE AND ARTESUNATE DRUG RESISTANCE IN THE PERUVIAN AMAZON BASIN

Valeria R. Soberon¹, Carola J. Salas¹, Meddy L. Santolalla¹, Andrea M. McCollum², Venkatachalam Udhayakumar², Carmen M. Lucas¹, David J. Bacon¹
¹U.S. Naval Medical Research Center Detachment, Lima, Peru, ²Centers for Disease Control and Prevention, Division of Parasitic Diseases, Malaria Branch, Atlanta, GA, United States

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PATIENTS WHO HAVE RECOVERED FROM LEPTOSPIROSIS WITH NO DEMONSTRABLE *IN VITRO* MEMORY T-CELL RESPONSES TO *LEPTOSPIRA* OR LEPTOSPIRAL PROTEIN ANTIGENS

Iskra Tuero¹, Joseph Vinetz², Gary Klimpel³
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²University of California, San Diego, CA, United States, ³University of Texas Medical Branch, Galveston, TX, United States

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THE EPIDEMIOLOGY OF *LEISHMANIA CHAGASI* INFECTION IN RIO GRANDE DO NORTE, NORTHEAST BRAZIL

Bruna L. Maciel¹, Iraci D. Lima¹, Hênio G. Lacerda¹, Paula V. Duarte¹, José W. Queiroz¹, Núbia N. Pontes¹, Sérgio R. Araújo¹, Eliana T. Nascimento¹, Glória R. Monteiro¹, Richard D. Pearson², Mary E. Wilson³, Stephen E. McGowan³, Selma M. Jerônimo¹
¹Universidade Federal do Rio Grande do Norte, Natal – RN, Brazil, ²University of Virginia, Charlottesville, VA, United States, ³University of Iowa, Wisconsin, IA, United States

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PATHOGENESIS OF HAEMORRHAGE ASSOCIATED WITH DENGUE INFECTION IN ADULTS IN VIETNAM

Dinh The Trung¹, Tran Tinh Hien², Le Thi Thu Thao², Nguyen Minh Dung², Tran Van Ngoc², Robert Goldin³, Edward Tuddenham⁴, Cameron Simmons⁵, Jeremy Farrar⁵, Bridget Wills⁵
¹University of Medicine and Pharmacy of Ho Chi Minh city, Ho Chi Minh city, Viet Nam, ²Hospital for Tropical Diseases, Ho Chi Minh city, Viet Nam, ³Department of Investigative Sciences, Imperial College, London, United Kingdom, ⁴Katherine Dormandy Haemophilia Centre and Thrombosis Unit University College, London, United Kingdom, ⁵Oxford University Clinical Research Unit, Hospital for Tropical Diseases, Ho Chi Minh City, Viet Nam

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A REPORT OF THE FIRST TWO AND A HALF YEARS OF A COMPREHENSIVE INFLUENZA SENTINEL SURVEILLANCE SYSTEM IN KENYA AND ITS IMPLICATIONS FOR VACCINE STRAIN SELECTION IN THE EAST AFRICA REGION

David Schnabel¹, Wallace Bulimo², Jason Garner³, Rachel Achilla², Virginia Headley³, Sam Martin¹
¹US Army Medical Research Unit – Kenya, Nairobi, Kenya, ²Kenya Medical Research Institute, Nairobi, Kenya, ³U.S. Air Force School of Aerospace Medicine, Brooks City-Base, TX, United States

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SERUM NITRIC OXIDE (NO) LEVELS IN CUTANEOUS LEISHMANIASIS (CL): CORRELATIONS WITH TREATMENT OUTCOME AND THE ADVERSE EVENT OF PANCREATITIS

Louis-Patrick Haraoui¹, Nancy Koles², Robin S. Howard³, Glenn W. Wortmann³, Mark Polhemus³, Naomi E. Aronson²
¹Internal Medicine Residency Training Program, Department of Medicine, McGill University, Montreal, QC, Canada, ²Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ³Walter Reed Army Medical Center, Washington, DC, United States

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PLASMODIUM FALCIPARUM HISTIDINE-RICH PROTEIN 2 ELISA FOR USE IN MALARIA INTERVENTION TRIALS**Carolyn M. Kifude**¹, Ann Stewart¹, Carter Diggs², John N. Waitumbi¹¹Walter Reed Project/KEMRI, Kisumu, Kenya, ²Malaria Vaccine Development Program United States Agency for International Development, Washington, DC, United States

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CLASSIFICATION AND REGRESSION TREE (CART) ANALYSIS USING CLINICAL LABORATORY VARIABLES KNOWN TO BE ASSOCIATED WITH DENGUE TO ESTABLISH EARLY DISEASE CLASSIFICATION**James A. Potts**¹, Siripen Kalayanaroj², Suchitra Nimmannitya², Anon Srikiatkachorn¹, Ananda Nisalak³, David W. Vaughn⁴, Timothy P. Endy⁵, Daniel H. Libraty¹, Sharone Green¹, Alan L. Rothman¹¹University of Massachusetts Medical School, Worcester, MA, United States, ²Queen Sirikit National Institute of Child Health, Bangkok, Thailand, ³Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁴U.S. Army Medical Research and Materiel Command, Fort Detrick, MD, United States, ⁵University of New York, Upstate Medical University, Syracuse, NY, United States

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CO-INFECTION WITH HELMINTHS AND MALARIA DURING PREGNANCY EFFECT SUSCEPTIBILITY TO FALCIPARUM MALARIA DURING CHILDHOOD**Indu Malhotra**¹, Peter Mungai¹, Alex Wamachi², John Ouma³, Davy Koech², Eric Muchiri⁴, Christopher L. King¹¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Nairobi, Kenya, ³Kenyatta University, Nairobi, Kenya, ⁴Division Of Vector Borne Diseases, Nairobi, Kenya

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CLINDAMYCIN PLUS QUININE FOR TREATING UNCOMPLICATED FALCIPARUM MALARIA: A META-ANALYSIS.**Charles O. Obonyo**, Elizabeth A. Juma
Kenya Medical Research Institute, Kisumu, Kenya**Young Investigator Award Session E**

Bayside C

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

JUDGESChristopher L. King
Case Western Reserve University, Cleveland, OH, United StatesSanjai Kumar
Food and Drug Administration, Rockville, MD, United StatesPeter Zimmerman
Case Western Reserve University, Cleveland, OH, United States

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TLR INVOLVEMENT DURING EXPERIMENTAL MALARIA: IMPLICATIONS FOR BOTH ENDS OF THE CLINICAL SPECTRUM OF HUMAN DISEASE**Constance A. Finney**, Ziyue Lu, W. Conrad Liles, Kevin C. Kain
University of Toronto, Toronto, ON, Canada

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IDENTIFICATION OF IMMUNODOMINANT REGIONS OF LEPTOSPIRAL IMMUNOGLOBULIN-LIKE PROTEINS FOR USE IN THE DIAGNOSIS OF LEPTOSPIROSIS**Julio Croda**¹, Marco A. Medeiros², Rena Greenwald³, Jenny Sun³, Alan McBride¹, Sharon J. Peacock⁴, Henry A. Choy⁵, David A. Haake⁵, Akira Homma², Mitermayer G. Reis¹, Javan Esfandiari³, Konstantin P. Lyashchenko³, Albert I. Ko⁶¹Oswaldo Cruz Foundation, Gonçalo Moniz Institute, Brazilian Ministry of Health, Salvador, Brazil, ²Oswaldo Cruz Foundation, Biomanguinhos, Brazilian Ministry of Health, Rio de Janeiro, Brazil, ³Chembio Diagnostic Systems, Inc., Medford, NY, United States, ⁴Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ⁵Veterans Affairs Greater Los Angeles Healthcare System, Department of Medicine and the David Geffen School of Medicine at UCLA, Los Angeles, CA, United States, ⁶Oswaldo Cruz Foundation, Gonçalo Moniz Institute, Brazilian Ministry of Health and Division of International Medicine and Infectious Disease, Weill Medical College of Cornell University, Ithaca, NY, United States

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ECOLOGICAL AND GENETIC RELATIONSHIPS OF THE FOREST-M FORM AMONG CHROMOSOMAL AND MOLECULAR FORMS OF THE MALARIA VECTOR ANOPHELES GAMBIAE S. S.**Yoo-sook Lee**¹, Claudio R. Meneses¹, Abdrahamane Fofana², Aurélie G. Andrianarivo¹, Rory D. McAbee¹, Etienne Fondjo³, Sekou F. Traoré², Anthony J. Cornel¹, Gregory C. Lanzaro¹¹University of California Davis, Davis, CA, United States, ²Malaria Research and Training Center, Faculty of Medicine, University of Mali, Bamako, Mali, ³National Malaria Program, Ministry of Health, Yaoundé, Cameroon

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SUPPRESSION OF HOST MACROPHAGE TRANSCRIPTIONAL RESPONSES BY LEISHMANIA MEXICANA**Shuyi Zhang**, P'ng Loke, James H. McKerrow
University of California San Francisco, San Francisco, CA, United States

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ABO POLYMORPHISM AND *PLASMODIUM FALCIPARUM* MALARIA

Kayla T. Wolofsky¹, Kodjo Ayi², Conrad W. Liles³, Christine M. Cserti-Gazdewich⁴, Kevin C. Kain⁵
¹McLaughlin-Rotman Centre for Global Health; Institute of Medical Sciences, University of Toronto, Toronto, ON, Canada, ²Tropical Disease Unit, McLaughlin-Rotman Centre for Global Health, University of Toronto, Toronto, ON, Canada, ³Tropical Disease Unit, McLaughlin-Rotman Centre for Global Health and Molecular Medicine; Institute of Medical Sciences, University of Toronto, Toronto, ON, Canada, ⁴Blood Transfusion Laboratory, Toronto General Hospital; Department of Laboratory Hematology, University of Toronto, Toronto, ON, Canada, ⁵Tropical Disease Unit, McLaughlin-Rotman Centre for Global Health and Molecular Medicine; Institute of Medical Science, University of Toronto, Toronto, ON, Canada

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STIMULATION OF TOLL-LIKE RECEPTOR 2 BY *PLASMODIUM FALCIPARUM* GLYCOSYLPHOSPHATIDYLINOSITOLS ENHANCES MACROPHAGE INTERNALIZATION OF PARASITIZED AND UNINFECTED ERYTHROCYTES

Laura Erdman, Kevin C. Kain
 University of Toronto, Toronto, ON, Canada

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THE EFFECT OF SNP VARIANTS IN THE 3'-UTR REGION OF *IL-5* ON GENE TRANSCRIPTION AND MRNA STABILITY AND THEIR ROLE IN SYMPTOMATIC INFECTION WITH *SCHISTOSOMA JAPONICUM*

Magda K. Ellis¹, Yuesheng Li¹, Honggen Chen², Donald P. McManus¹
¹QIMR, Brisbane, Australia, ²Jiangxi Institute of Parasitic Diseases, Nanchang, China

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B CELL ACTIVITY IN CHILDREN WITH MALARIA

Jackson C. Korir¹, Ronald P. Taylor², John N. Waitumbi¹
¹Walter Reed Project/KEMRI, Kisumu, Kenya, ²Department of Biochemistry and Molecular Genetics, University of Virginia School of Medicine, Charlottesville, VA, United States

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SINGLE-NUCLEOTIDE POLYMORPHISM IN *PLASMODIUM VIVAX* POPULATIONS FROM RURAL AMAZONIA

Pamela Orjuela-Sánchez, Mônica da Silva-Nunes, Natal Santos da Silva, Marcelo Urbano Ferreira
 Institute of Biomedical Sciences, University of São Paulo, São paulo, Brazil

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INHIBITION OF TYPE I DIABETES IN FILARIA INFECTED NOD MICE IS ASSOCIATED WITH A TH2 SHIFT AND INDUCTION OF REGULATORY T CELLS

Marc P. Hübner, Marina N. Torrero, David Larson, J. Thomas Stocker, Edward Mitre
 Uniformed Services University of the Health Sciences, Bethesda, MD, United States

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CASPASE 9, A SIGNALING PROTEIN OF THE HUMAN LIVER FLUKE, *OPISTHORCHIS VIVERRINI*

Sandi K. Parriott¹, Thewarach Laha², Banchob Sripa³, Alex Loukas⁴, Paul J. Brindley¹
¹Department of Microbiology, Immunology and Tropical Medicine, The George Washington University, Washington, DC, United States, ²Department of Parasitology, Khon Kaen University, Khon Kaen, Thailand, ³The Department of Pathology, Khon Kaen University, Khon Kaen, Thailand, ⁴Division of Infectious Diseases and Immunology, Queensland Institute of Medical Research, Brisbane, Queensland, Australia

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MAPPING EPITOPES RECOGNISED BY MONOCLONAL ANTIBODIES AGAINST PFHRP2 AND IMPLICATIONS TOWARDS OPTIMISATION OF MALARIA RAPID DIAGNOSTIC TESTS

Nelson Lee¹, Joanne Baker², Martin Bubb³, David Bell³, Qin Cheng², James McCarthy¹
¹Queensland Institute of Medical Research, Brisbane, Australia, ²Australian Army Malaria Institute, Brisbane, Australia, ³World Health Organization, Western Pacific Region Office, Manila, Philippines

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IDENTIFY B-CELL EPITOPES IN DUFFY BINDING PROTEIN ASSOCIATE WITH PROTECTION *P. VIVAX* INVASION

Patchanee Chootong
 University of South Florida, Tampa, FL, United States

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T LYMPHOCYTE SUBSETS IN CHILDREN WITH SCHISTOSOMIASIS MANSONI COMPARED TO CHILDREN WITH *SCHISTOSOMA MANSONI* AND *PLASMODIUM FALCIPARUM* CO-INFECTIONS IN WESTERN KENYA

Erick M. Muok¹, Pauline N. Mwinzi¹, Carla L. Black², Jennifer M. Carter², Zopporah W. Ng'ang'a³, Michael M. Gicheru⁴, W. Evan Secor⁵, Diana M. Karanja¹, Daniel G. Colley²
¹Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, ²University of Georgia, Athens, GA, United States, ³Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya, ⁴Kenyatta University, Nairobi, Kenya, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States

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MOLECULAR DETECTION OF FLAVIVIRUS IN ENDEMIC AREAS IN PERU

Dana Figueroa¹, Enrique Mamani², Egma Mayta¹
¹Universidad Nacional Mayor de San Marcos, Lima, Peru, ²Instituto Nacional de Salud, Lima, Peru

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RECOMBINANT PVS230C SPECIFICALLY RECOGNIZES GAMETE STAGE PARASITES OF *PLASMODIUM VIVAX* AND MAY BE USED TO DETECT ANTIBODIES IN HUMAN SERUM, BUT DOES NOT BLOCK OOCYST DEVELOPMENT IN EXPERIMENTAL MOSQUITO INFECTION

Victor Neyra
 Instituto de Medicina Tropical, Lima, Peru



ASTMH 57th Annual Meeting

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Sunday, December 7

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PATTERN OF CORD, PLACENTAL AND POST-DELIVERY MATERNAL MALARIA PARASITAEMIA IN CROSS RIVER STATE, NIGERIA

Chioma M. Oringanje, Martin M. Meremikwu
Institute of Tropical Disease, Research and Prevention, Calabar, Nigeria

ACAV SIRACA Subcommittee Meeting

Salon 817/821
Sunday, December 7, Noon – 2 p.m.

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FUNCTIONAL ASSOCIATION BETWEEN RANTES -4151C/T PROMOTER POLYMORPHISM AND HIGH-DENSITY FALCIPARUM PARASITEMIA AMONG CHILDREN IN A HOLOENDEMIC MALARIA TRANSMISSION AREA

Tom Were¹, Collins Ouma¹, Greg C. Davenport², James B. Hittner³, Michael F. Otieno⁴, Alloys S. Orago⁵, John M. Vulule⁶, John M. Ong'echa¹, Douglas J. Perkins⁷
¹University of New Mexico/KEMRI, Kisian, Kenya, ²University of Pittsburgh, Pittsburgh, PA, United States, ³Department of Psychology, College of Charleston, Charleston, SC, United States, ⁴Department of Pre-Clinical Sciences, School of Health Sciences, Kenyatta University, Nairobi, Kenya, ⁵National AIDS Control Council, Nairobi, Kenya, ⁶Centre for Global Health Research, Kenya Medical Research Institute, Kisian, Kenya, ⁷Division of Infectious Diseases, University of New Mexico School of Medicine, New Mexico, NM, United States

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THE STATUS OF THE PFMSP3 N-TERMINUS AS A VACCINE CANDIDATE: CROSS-REACTIVE ANTIBODIES IN HYPOENDEMIC TRANSMISSION

Stephen J. Jordan, Oralee H. Branch, Julian C. Rayner
University of Alabama at Birmingham, Birmingham, AL, United States

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EVALUATION OF THE ROLES OF CD209 PROMOTER AND GENE POLYMORPHISMS IN PATHOGENESIS OF DENGUE DISEASE IN INDONESIA

Zen Hafy¹, Purnomo Soeharso², Irani F. Rudiman³, Wahyuning Ramelan², Bacht Alisjahbana³, Susanna Widjaja⁴, Herman Kosasih⁴, Ervi Salwati⁵, Djoko Yuwono⁵, Maya Williams⁴, Patrick Blair⁴, Timothy Burgess⁴
¹University of Sriwijaya, Palembang, Indonesia, ²University of Indonesia, Jakarta, Indonesia, ³Hasan Sadikin Hospital, Bandung, Indonesia, ⁴Viral Disease Program, US Namru-2, Jakarta, Indonesia, ⁵National Institutes of Health Research and Development, Jakarta, Indonesia

Speaker Ready Room*Nottoway***Sunday, December 7, Noon – 6 p.m.****ACAV SALS Subcommittee Meeting***Salon 817/821***Sunday, December 7, 2 p.m. – 3:30 p.m.****Young Investigator Award Committee Meeting***Oak Alley***Sunday, December 7, 3:30 p.m. – 5 p.m.****ACMCIP Council Meeting***Grand Couteau***Sunday, December 7, 3:30 p.m. – 5:30 p.m.****ACAV Council Meeting***Salon 817/821***Sunday, December 7, 3:30 p.m. – 5:30 p.m.****ACME Council Meeting***Salon 824***Sunday, December 7, 3:30 p.m. – 5:30 p.m.****Clinical Group Council Meeting***Salon 816***Sunday, December 7, 3:30 p.m. – 5:30 p.m.****Student Reception***Rhythms IIIII***Sunday, December 7, 4 p.m. – 5 p.m.**

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

Plenary Session 1**Opening Plenary Session and Awards Ceremony***Grand Ballroom***Sunday, December 7, 5:30 p.m. – 7:30 p.m.****CHAIR**

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

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

5:30 p.m.**THE GENIUS OF BOLDNESS: THINKING BIG IN GLOBAL HEALTH**

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

Formerly Executive Director, The Global Fund to Fight AIDS, TB and Malaria, and Under-Secretary General, United Nations

6:30 p.m.**AWARDS CEREMONY****COMMUNICATIONS AWARD**

Charles Piller and Doug Smith
Los Angeles Times, Los Angeles, CA, United States

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

HONORARY MEMBERS

Pierre Ambroise-Thomas
President, French National Academy of Medicine, Gentilly, France

Anastácio de Queiroz Sousa
São José Hospital for Infectious Diseases, Fortaleza, Ceará, Brazil

Presented by Thomas P. Monath
Kleiner Perkins Caufield & Byers, Harvard, MA, United States

HOOGSTRAAL MEDAL

Daniel Sonenshine
Old Dominion University, Norfolk, VA, United States

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

BAILEY K. ASHFORD MEDAL

Kevin Kain
University of Toronto Hospital, Toronto, ON, Canada

Presented by Alan Magill
Walter Reed Army Institute of Research, Washington, DC, United States

BEN KEAN MEDAL

Jay Keystone
Toronto Hospital, Toronto, ON, Canada

Presented by Phyllis Kozarsky
Emory University, Atlanta, GA, United States

WALTER REED MEDAL

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

Presented by James Hughes
Emory University, Atlanta, GA, United States



ASTMH 57th Annual Meeting

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Opening Reception

Napoleon Ballroom

Sunday, December 7, 7:30 p.m. – 9:30 p.m.

Exhibit Hall Open

Napoleon Ballroom

Sunday, December 7, 7:30 p.m. – 9:30 p.m.

Monday, December 8

Registration

Napoleon Ballroom

Monday, December 8, 7 a.m. – 5 p.m.

Cyber Cafe

Lagniappe

Monday, December 8, 7 a.m. – 5 p.m.

Speaker Ready Room

Nottoway

Monday, December 8, 7 a.m. – 6 p.m.

ASTMH Diploma Course Directors Meeting

Salon 829

Monday, December 8, 7 a.m. – 8 a.m.

Breakfast Session 1A

THE BILL & MELINDA GATES FOUNDATION'S MALARIA STRATEGY

Grand Ballroom A

Monday, December 8, 7 a.m. - 7:50 a.m.

Staff from the Bill & Melinda Gates Foundation will share the Foundation's malaria strategy, including a review of why the Foundation chose to fight malaria, how the Foundation approaches the issue, what types of programs the Foundation funds and what the Foundation hopes to accomplish in the long term. A small number of grantees may provide a brief overview of their programs. A question and answer period will follow. A light breakfast will be served.

Press Room

Ellendale/Evergreen

Monday, December 8, 7:30 a.m. – 6:30 p.m.

Monday, December 8

Symposium 2

Lone Star Rising Part I: Recent Efforts to Define the Role of *Amblyomma americanum* in the Transmission of Bartonella, Borrelia, Ehrlichia and Rickettsia species

Gallery

Monday, December 8, 8 a.m. – 9:45 a.m.

An understanding of the association between vectors, vertebrate hosts and pathogens is fundamental for the development of tick-borne disease prevention strategies. The lone star tick, *Amblyomma americanum*, is an aggressive anthropophilic tick often found in high densities in the southern and eastern United States, and is expanding its range northward. Until recently, this tick was regarded as a nuisance pest of humans but is now an important vector of zoonotic pathogens: *Ehrlichia chaffeensis*, the agent of human monocytic ehrlichiosis, and *E. ewingii*, the agent of granulocytic ehrlichiosis in humans and dogs. *A. americanum* also harbors organisms less clearly linked with human disease, *Bartonella* spp., *Borrelia lonestari*, *Rickettsia amblyommii* and an ehrlichial pathogen (“Panola Mountain Ehrlichia”) closely related to *E. ruminantium*. On one hand, clinical presentations are seen after *A. americanum* tick bites that are not yet definitively associated with specific etiological agents; on the other hand, *A. americanum*-borne organisms have been elucidated that are not yet associated with specific syndromes. Erythema migrans following *A. americanum* tick bite continues to be an unanswered clinical question, as is the role of *R. amblyommii* in mild or asymptomatic rickettsiosis. Furthermore, a recently discovered Coxiella-type symbiont may influence maintenance or transmissions of other pathogens within *A. americanum*, thereby impacting human disease transmission. This symposium will focus on efforts to describe these organisms, understand their interactions and sort out their roles in human disease.

CHAIR

Ellen Y. Stromdahl
U.S. Army Center for Health Promotion and Preventive Medicine,
Aberdeen Proving Ground, MD, United States

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

8 a.m.

PROPOSED ETIOLOGIES FOR SOUTHERN TICK-ASSOCIATED RASH ILLNESS

Susan E. Little
Oklahoma State University, Stillwater, OK, United States

8:25 a.m.

MOLECULAR SIGNATURES DETECTED IN *AMBLYOMMA AMERICANUM* AND SKIN BIOPSY SAMPLES FROM STARI PATIENTS USING THE IBIS UNIVERSAL BIOSENSOR

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

8:50 a.m.

DETECTION OF *RICKETTSIA AMBLYOMMII* IN *AMBLYOMMA AMERICANUM* TICKS

Allen L. Richards
Naval Medical Research Center, Silver Spring, MD, United States

9:15 a.m.

GENOMICS, MOLECULAR HETEROGENEITY AND PATHOGENICITY OF *RICKETTSIA AMBLYOMMII* AND OTHER AGENTS FOUND IN THE LONE STAR TICK

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

Symposium 3

Remote Technology to Create a Cyberenvironment for Infectious Disease Surveillance

Rhythms I

Monday, December 8, 8 a.m. – 9:45 a.m.

Remote Sensing and GIS applications, in the realm of disease surveillance on a global level, is continuously being developed and upgraded. Its early beginnings, with satellite imagery such as Landsat data, has rapidly improved to include higher spatial resolution information such as IKONOS and QuickBird, as well as proliferation of statistical models, supercomputer applications and real-time communication. The global and rapid movement of humans, animals and goods, coupled with population growth and urbanization, provide for increased risk of infectious disease outbreaks. This warrants the continued need to exploit technology for surveillance systems that will minimize these risks. The objective of the symposium is to provide an up-to-date view of current technology and its application to infectious disease problems on a global level.

CHAIR

Benjamin G. Jacob
The University of Alabama at Birmingham, Birmingham, AL,
United States

Robert J. Novak
University of Alabama, Birmingham, AL, United States

8 a.m.

GEOSTATISTICAL ALGORITHMS

Daniel A. Griffith
University of Texas at Dallas, Richardson, TX, United States

8:25 a.m.

SATELLITE TECHNOLOGY

James L. Regens
University of Oklahoma Health Sciences Center, Oklahoma City,
OK, United States

8:50 a.m.

CYBERENVIRONMENT FOR REMOTE DISEASE SURVEILLANCE SYSTEMS AS A BASES FOR INTEGRATED MALARIA MANAGEMENT (IMM)

Ian Brooks
National Center for Supercomputing Applications (NCSA),
Champaign, IL, United States

9:15 a.m.

DESIGNING AND DEVELOPING LARVAL MANAGEMENT STRATEGIES BY IDENTIFYING CRITICAL FEATURES OF LANDSCAPE FOR LOCATING PRODUCTIVE AQUATIC HABITATS BASED ON FIELD SAMPLED AND GIS/RS DATA

Benjamin G. Jacob
University of Alabama at Birmingham, Birmingham, AL, United States



Symposium 4

Clinical Updates in Leishmaniasis, Chagas Disease, Leptospirosis and Tuberculosis

Rhythms III/III

Monday, December 8, 8 a.m. – 9:45 a.m.

This symposium will provide a clinical update of recent literature and unpublished data for these diseases.

CHAIR

Eric Houpt
University of Virginia, Charlottesville, VA, United States

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

8 a.m.

RECENT ADVANCES IN VISCERAL AND CUTANEOUS LEISHMANIASIS

Richard D. Pearson
University of Virginia, Charlottesville, VA, United States

8:25 a.m.

CHAGAS DISEASE IN THE IMMUNOCOMPROMISED HOST

Anne Moore
Centers for Disease Control and Prevention, Division of Parasitic Diseases, Atlanta, GA, United States

8:50 a.m.

UPDATE IN LEPTOSPIROSIS

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

9:15 a.m.

DIAGNOSIS AND MANAGEMENT OF DRUG RESISTANT TUBERCULOSIS

Eric R. Houpt
University of Virginia, Charlottesville, VA, United States

Symposium 5

Infectious Diseases and Other Health Risks Following Natural Disasters: Experiences from Hurricane Katrina and Beyond

Waterbury

Monday, December 8, 8 a.m. – 9:45 a.m.

This session will explore the relationship between natural disasters and risk of infectious diseases, with illustrations from local experiences following Hurricane Katrina and from other disaster situations around the world, such as the 2005 Indian Ocean tsunami. Speakers include a representative from the Louisiana Office of Public Health describing infectious diseases and surveillance following Katrina, an entomologist describing insect populations and vector-borne diseases following Katrina, a representative of Medecins Sans Frontieres describing responses to natural disasters in developing countries and a public health expert reviewing the relationship between global climate changes, natural disasters, and travel health risks.

CHAIR

Richard Oberhelman
Tulane School of Public Health, New Orleans, LA, United States

James H. Diaz
Louisiana State University School of Public Health, New Orleans, LA, United States

8 a.m.

SURVEILLANCE FOR HUMAN DISEASE IN THE WAKE OF HURRICANE KATRINA

Raoult Ratard
Louisiana Office of Public Health, New Orleans, LA, United States

8:25 a.m.

ENTOMOLOGICAL SURVEILLANCE AND VECTOR-BORNE DISEASES AFTER HURRICANE KATRINA

Dawn Wesson
Tulane University, New Orleans, LA, United States

8:50 a.m.

RESPONSE TO INFECTIOUS DISEASES AFTER NATURAL DISASTERS IN DEVELOPING COUNTRIES

Martin De Smet
Médecins Sans Frontières, Brussels, Belgium

9:15 a.m.

GLOBAL CLIMATE CHANGES, NATURAL DISASTERS AND TRAVEL HEALTH RISKS

James H. Diaz
Louisiana State University School of Public Health, New Orleans, LA, United States

Scientific Session 6

Malaria – Vaccines I

Napoleon A123

Monday, December 8, 8 a.m. – 9:45 a.m.

CHAIR

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

Takafumi Tsuboi
Ehime University, Matsuyama, Ehime, Japan

8 a.m.

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ANTIBODY RESPONSES IN RABBITS TO IMMUNIZATION BY THE SUBCUTANEOUS AND INTRADERMAL ROUTES WITH A METABOLICALLY ACTIVE, NON-REPLICATING (ATTENUATED) *PLASMODIUM FALCIPARUM* SPOOROZOITE VACCINE

Eric R. James¹, Kim Lee Sim², Mark Loyevsky¹, Adam Richman¹, Tao Li¹, Sumana Chakravarty¹, Anusha Gunesequera¹, Rana Chattopadhyay¹, Adriana Ahumada², MingLin Li², Richard Stafford², Peter Billingsley¹, Stephen L. Hoffman¹
¹Sanaria, Rockville, MD, United States, ²Protein Potential, Rockville, MD, United States

8:15 a.m.

2

IMMUNITY INDUCED BY *PLASMODIUM BERGHEI* CSP EXPRESSION FROM VARIOUS CELLULAR LOCALIZATIONS AND DELIVERY BY INACTIVATED *ESCHERICHIA COLI*

Katharine Boyle¹, Jessica Whittington², **Elizabeth Deriso**¹, Timothy Alefantis², Elke S. Bergmann-Leitner¹, Paul Grewal², Vito DelVecchio², Evelina Angov¹
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Vital Probes, Inc., Mayfield, PA, United States

8:30 a.m.

3

THE BIOCHEMICAL AND BIOPHYSICAL CHARACTERIZATION OF AN *ESCHERICHIA COLI* EXPRESSED *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN (CSP), A LEADING MALARIA VACCINE CANDIDATE

Matthew Lee Plassmeyer¹, Nick MacDonald¹, Karine Reiter¹, Richard Shimp¹, Yanling Zhang¹, Brent House², Jack Lebowitz³, Svetlana Kotova³, Albert Jin³, Merrit Hickman¹, Raul Herrera¹, Onyinyechukwu Uchime¹, Vu Nguyen¹, Jacqueline Glen¹, Louis Miller¹, Yimin Wu¹, David Narum¹
¹National Institutes of Health, Rockville, MD, United States, ²U.S. Navy, Silver Spring, MD, United States, ³National Institutes of Health, Bethesda, MD, United States

8:45 a.m.

4

CHARACTERIZATION OF ANTI-AMA1 ANTIBODIES INDUCED BY AMA1-C2, A THREE-ALLELE COMBINATION VACCINE

Sara A. Murray¹, Hong Zhou², Joan Aebig¹, Lynn Lambert¹, Laura B. Martin¹, Louis Miller¹, Carole Long², Kazutoyo Miura¹
¹Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ²Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

9 a.m.

5

THE FIRST GENERATION *PLASMODIUM FALCIPARUM* AMA-1 BASED MONOVALENT ADENOVECTOR VACCINE AND THE SECOND GENERATION BIVALENT ADENOVECTOR VACCINE EXPRESSING *P. FALCIPARUM* AMA-1 AND MSP1-42 ELICIT ROBUST FUNCTIONAL ANTIBODIES IN NZW RABBIT

Noelle B. Patterson¹, Joseph T. Bruder², Keith Limbach¹, Samuel E. Moretz³, Hong Zhou³, Ababacar Diouf³, C. Richter King², Kalpana Gowda¹, Ping Chen², Svetlana Konovalova², Elke S. Bergmann-Leitner¹, Emily Locke⁴, Lorraine Soisson⁵, Carter Diggs⁵, Evelina Angov¹, Carole A. Long³, Thomas L. Richie¹, Denise L. Doolan¹
¹U.S. Military Malaria Vaccine Program (Naval Medical Research Center & Walter Reed Army Institute of Research), Silver Spring, MD, United States, ²GenVec, Inc., Gaithersburg, MD, United States, ³Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ⁴PATH Malaria Vaccine Initiative, Bethesda, MD, United States, ⁵United States Agency for International Development, Malaria Vaccine Development Program, Washington, DC, United States

9:15 a.m.

6

DEVELOPMENT OF A MULTI-ANTIGEN MULTI-STAGE ADENOVECTOR-BASED MALARIA VACCINE THAT INDUCES ROBUST T-CELL AND ANTIBODY RESPONSES

Joseph T. Bruder¹, Ping Chen¹, Maureen E. Stefaniak², Elena Semenova¹, Keith Limbach², Noelle B. Patterson², Svetlana Konovalova¹, Charlie Thomas¹, Joseph J. Campo², Damodar ETTYREDDY¹, Duncan McVey¹, Carole A. Long³, Sheng Li⁴, Emily Locke⁴, Thomas L. Richie², C. Richter King¹, Denise L. Doolan²
¹GenVec, Gaithersburg, MD, United States, ²Naval Medical Research Center, Malaria Program, Silver Spring, MD, United States, ³Malaria Vaccine Development Branch, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ⁴PATH Malaria Vaccine Initiative, Bethesda, MD, United States

9:30 a.m.

7

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

Cindy Tamminga¹, Ilin Chuang¹, David Regis¹, Jose Mendoza-Silveiras¹, Judith E. Epstein¹, Falgunee Parekh¹, Sharina Reyes¹, Victoria Steinbeiss¹, Charlotte Fedders¹, Santina Maiolatesi¹, Kathryn Smith¹, Francis Williams², Martha Sedegah¹, Denise L. Doolan¹, Keith Limbach¹, Noelle B. Patterson¹, Michele Spring³, Joseph T. Bruder⁴, CR King⁴, Lorraine Soisson⁵, Carter Diggs⁵, Christian F. Ockenhouse³, Thomas Richie¹
¹Naval Medical Research Center/Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²National Naval Medical Center, Bethesda, MD, United States, ³Walter Reed Army Institute of Research/Naval Medical Research Center, Silver Spring, MD, United States, ⁴GenVec, Inc., Gaithersburg, MD, United States, ⁵United States Agency for International Development, Washington, DC, United States

Symposium 7

The Importance of Field-Based Research to Inform Public Health Decisions

Maurepas

Monday, December 8, 8 a.m. – 9:45 a.m.

This symposium will bring to the forefront the importance of field-based research to developing informed and evidence-based public health decisions regarding infectious diseases. A series of four talks will focus on the effect of field-based scientific research on public health decisions in order to highlight the growing importance of funding this type of research, particularly in emerging infectious diseases. The four speakers will discuss the complicated environment of this type of research, both from the perspective of resource-limited nations, as well as issues related to bridging the multi-disciplinary needs for such research to impact public health decision-making. The plan is to provide ample opportunity for discussion at the end of the four presentations, focusing on defining areas of need and future types of funding initiatives that might facilitate expansion of this area of research. The four talks will address malaria, dengue, HIV and Japanese encephalitis.

CHAIR

Laura D. Kramer
 Wadsworth Center, Albany, NY, United States

Jeffrey S. Kennedy
 Wadsworth Center, New York State Department Health, Albany, NY, United States



8 a.m.

THE ROLE OF FIELD RESEARCH IN DEVELOPING PARADIGMS FOR TREATMENT AND PREVENTION OF DENGUE

Timothy P. Endy
State University of New York, Upstate Medical University, Syracuse, NY, United States

8:25 a.m.

SUPPORTING AND EMPOWERING NATIONAL DECISION-MAKING FOR JE CONTROL, THE ROLE OF RESEARCH AND TECHNICAL ASSISTANCE

Julie Jacobson
Bill & Melinda Gates Foundation, Seattle, WA, United States

8:50 a.m.

MALARIA TRANSMISSION AND CONTROL – EVIDENCE-BASED PUBLIC HEALTH POLICY DECISIONS

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

9:15 a.m.

DEVELOPMENT OF A MULTI-NATIONAL PUBLIC HEALTH AND VACCINE RESEARCH INITIATIVE FOR HIV IN EAST AFRICA

Patricia E. Fast
International AIDS Vaccine Initiative, New York, NY, United States

Symposium 8

The Neglected Tropical Diseases in Latin America and the Caribbean: A Review of Disease Burden, Geographic Distribution and Methods Control and Elimination

Bayside BC

Monday, December 8, 8 a.m. – 9:45 a.m.

The most common infections of the poorest people living in Latin American and Caribbean (LAC) are caused by the neglected tropical diseases (NTDs). Geographically, the NTDs in LAC concentrate in 11 different sub-regions, each with a distinctive human and environmental ecology. Soil-transmitted helminth infections, primarily Hookworm disease and Chagas disease, are the most important NTDs in LAC based on prevalence data and healthy life years lost from disability. These are followed by high burdens of disease caused by schistosomiasis, leishmaniasis, trachoma, leprosy and lymphatic filariasis. This symposium will provide a review and an assessment of the distribution and the burden of these diseases in the region and provide a perspective for the roadmap for the control and elimination of these diseases.

CHAIR

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

Jose Ignacio Santos
Hospital Infantil de Mexico Federico Gómez, Mexico, Mexico

8 a.m.

IMPROVING THE HEALTH OF NEGLECTED POPULATIONS IN LATIN AMERICA: APPROACHES TO ELIMINATION AND CONTROL OF CHAGAS DISEASE AND LEPROSY

Carlos Franco-Paredes
Emory University School of Medicine, Atlanta, GA, United States

8:25 a.m.

THE ANTIPOVERTY VACCINES: NEW TOOLS FOR THE CONTROL OF SOIL-TRANSMITTED HELMINTH INFECTIONS

Maria Elena Bottazzi
The George Washington University, Washington, DC, United States

8:50 a.m.

ELIMINATING LYMPHATIC FILARIASIS, ONCHOCERCIASIS AND SCHISTOSOMIASIS FROM THE AMERICAS

Patrick J. Lammie
Center for Disease Control, Atlanta, GA, United States

9:15 a.m.

AN EMERGING GLOBAL INFECTIOUS DISEASE: STRONGYLOIDES AND THE LINK WITH HTLV-1

Eduardo Gotuzzo
IMT "Alexander Von Humboldt", Lima, Peru

Symposium 9

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Getting In and Getting Out—Strategies Used by Parasites During Their Host Cell Encounters

Supported with funding from The Burroughs Wellcome Fund Grand Ballroom A

Monday, December 8, 8 a.m. – 9:45 a.m.

Parasites have many different strategies for getting into and out of host cells. This symposium will provide an overview of these strategies, as well review the most recent findings regarding pathways used by parasites for invasion and egress. This symposium is designed to review and update progress toward understanding the strategies used by parasites to get into and out of host cells, and how this information may be applied to the development of strategies to reduce the burden of disease.

CHAIR

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

8 a.m.

A PLANT-LIKE PATHWAY FOR CALCIUM SIGNALING CONTROLS EGRESS AND DEVELOPMENT IN TOXOPLASMA

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

8:35 a.m.

WHAT A PEPTIDE TAUGHT US ABOUT PLASMODIUM-MOSQUITO INTERACTIONS

Marcelo Jacobs-Lorena
Johns Hopkins School of Public Health, Baltimore, MD, United States

9:10 a.m.

PLASMODIUM FALCIPARUM — PROTEOLYSIS AS A STRATEGY FOR GETTING INTO AND OUT OF THE HOST CELL

Michael J. Blackman
National Institute for Medical Research, London, United Kingdom

Symposium 10

HIV/AIDS in Africa: Beyond the Antiretroviral Therapy Roll-Out

Grand Ballroom B

Monday, December 8, 8 a.m. – 9:45 a.m.

In Africa there are still many more new HIV infections than people placed on ART, and UNAIDS point to a widening funding gap for antiretroviral treatment (ART) programs. Antiretroviral scale-up clearly still faces major challenges. However, considerable experience has been gained as many African ART roll-out programs have been operating for longer than five years under initiatives such as PEPFAR and UN Global Fund, and 1.34 million people were receiving ART in 2006. Adherence rates have been high. Outcomes are generally excellent, apart from a high rate of early deaths, but a number of key issues have arisen with the maturing roll-out process. Long-running programs show that ART is being initiated with higher CD4 counts resulting in fewer deaths, but loss to follow up has increased as clinics approach capacity. Clinical and public health issues related to co-infection with tuberculosis or hepatitis B are emerging.

CHAIR

Jean B. Nachega
Johns Hopkins University, Baltimore, MD, United States
Timothy Sterling
Vanderbilt University, Nashville, TN, United States

8 a.m.

HIV/AIDS EPIDEMIOLOGY IN AFRICA: UPDATE

Jean Nachega
Johns Hopkins University, Baltimore, MD, United States

8:25 a.m.

TREATMENT REGIMES FOR HIV-INFECTED IN RESOURCE-LIMITED SETTINGS

Marco Vitoria
World Health Organization, Geneva, Switzerland

8:50 a.m.

MANAGING TB-HIV CO-INFECTION IN AFRICA

Timothy Sterling
Vanderbilt University, Nashville, TN, United States

9:15 a.m.

RETENTION AND LOSS TO FOLLOW-UP IN HIV TREATMENT PROGRAMS IN AFRICA

Chris Gill
Boston University, Boston, MD, United States

Scientific Session 11

Flavivirus I – Dengue I

Grand Ballroom C

Monday, December 8, 8 a.m. – 9:45 a.m.

CHAIR

Maria T. Arevalo
University of Rochester, Rochester, NY, United States
Nikos Vasilakis
University of Pittsburgh, Pittsburgh, PA, United States

8 a.m.

8

NEWLY ISOLATED MUTANTS OF DENGUE VIRUS TYPE 1 WITH DELETIONS IN THE 3' NONCODING REGION SHOW HIGHER LEVELS OF REPLICATION *IN VIVO* IN MOSQUITOES

Yoko Nukui¹, Shigeru Tajima¹, Makiko Ikeda¹, Akira Kotaki¹, Tomohiko Takasaki¹, Yuki Eshita², Ichiro Kurane¹
¹National Institute of Infectious Diseases, Tokyo, Japan, ²Oita University Faculty of Medicine, Oita, Japan

8:15 a.m.

9

MOSQUITOES PUT THE BRAKE ON EVOLUTION: EXPERIMENTAL EVOLUTION REVEALS SLOWER MUTATION ACCUMULATION IN MOSQUITO CELLS THAN VERTEBRATE CELLS

Nikos Vasilakis¹, Eleanor Dearnorf¹, Joanie Kenney¹, Shannan L. Rossi¹, Kathryn A. Hanley², Scott C. Weaver¹
¹University of Texas Medical Branch, Galveston, TX, United States, ²New Mexico State University, Las Cruces, NM, United States

8:30 a.m.

10

ANTIBODY DEPENDENT ENHANCEMENT OF DENGUE VIRUS INFECTION IN HUMAN DENDRITIC CELLS

Kobporn Boonnak, Bonnie M. Slike, Mary A. Marovich
The Henry M. Jackson Foundation, Rockville, MD, United States

8:45 a.m.

11

PRIMARY HUMAN ENDOTHELIAL CELLS SUPPORT DIRECT BUT NOT ANTIBODY-DEPENDENT ENHANCED DENGUE VIRUS INFECTION

Maria T. Arevalo, Patricia J. Simpson-Haidaris, Zhihua Kou, Jacob J. Schlesinger, Xia Jin
University of Rochester, Rochester, NY, United States

9 a.m.

12

CANDIDATE GENE APPROACH TO IDENTIFY HOST GENETIC FACTORS FOR SEVERE FORMS OF DENGUE VIRUS INFECTION

Nguyen T. Lan¹, Michio Yasunami¹, Mihoko Kikuchi¹, Vu T. Huong², Vu T. Ngu², Hoang N. Dao², Do Q. Ha², Tran T. Thuy³, Tran M. Tuan³, Vo V. Tuong⁴, Tran V. Dat⁴, Naoko Okuda¹, Hitomi Horie¹, Toshifumi Oyama¹, Kouichi Morita¹, Kenji Hirayama¹
¹Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan, ²Pasteur Institute in Ho Chi Minh City, Ho Chi Minh City, Vietnam, ³Nhi Dong Hospital No. 2, Ho Chi Minh City, Vietnam, ⁴Center for Preventive Medicine of Vinh Long Province, Vinh Long Province, Vietnam



9:15 a.m.

13

EVALUATION OF THE ROLES OF CD209 PROMOTER AND GENE POLYMORPHISMS IN PATHOGENESIS OF DENGUE DISEASE IN INDONESIA

Zen Hafy¹, Purnomo Soeharso², Irani F. Rudiman³, Wahyuning Ramelan², Bacht Alisjahbana³, Susanna Widjaja⁴, Herman Kosasih⁴, Ervi Salwati⁵, Djoko Yuwono⁵, Maya Williams⁴, Patrick Blair⁴, Timothy Burgess⁴

¹University of Sriwijaya, Palembang, Indonesia, ²University of Indonesia, Jakarta, Indonesia, ³Hasan Sadikin Hospital, Bandung, Indonesia, ⁴Viral Disease Program, US Namru-2, Jakarta, Indonesia, ⁵National Institutes of Health Research and Development, Jakarta, Indonesia

9:30 a.m.

14

CHARACTERIZATION OF THE GENE EXPRESSION PROGRAMS ASSOCIATED WITH DISEASE SEVERITY IN ACUTE PEDIATRIC DENGUE INFECTION

Stephen J. Popper¹, Aubree Gordon², Mingshun Liu¹, Maria Jose Vargas³, Chelsey Perry¹, Angel Balmaseda³, Crisanta Rocha⁴, Eva Harris², David A. Relman⁵

¹Stanford University School of Medicine, Stanford, CA, United States, ²Division of Infectious Diseases, School of Public Health, University of California, Berkeley, CA, United States, ³Departamento de Virologia, Centro Nacional de Diagnostico y Referencia, Ministerio de Salud, Managua, Nicaragua, ⁴Hospital Infantil Manuel de Jesus Rivera, Managua, Nicaragua, ⁵Stanford University School of Medicine and VA Palo Alto Health Care System, Stanford, CA, United States

Symposium 12

Careers in Tropical Medicine – The Paths to Success Part I

Grand Ballroom D

Monday, December 8, 8 a.m. – 9:45 a.m.

This symposium is designed for trainees in the fields of tropical medicine and global health. The presenters will explore aspects of developing a successful career in tropical medicine, explain how to integrate different skills to obtain funding and highlight the value of ASTMH membership.

CHAIR

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

8 a.m.

HERE TO HELP – WHAT ASTMH CAN DO FOR YOU

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

8:25 a.m.

GLOBAL HEALTH/TROPICAL DISEASES: OPPORTUNITIES FOR NETWORKING AND TRAINING

Michele Barry
Yale University, New Haven, CT, United States

8:50 a.m.

SO YOU WANT TO WORK OVERSEAS?

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

9:15 a.m.

SHOW ME THE MONEY – GRANT PREPARATION

Michael Strand
University of Georgia, Athens, GA, United States

Symposium 13

Use of Rectal Artesunate at the Community Level in Remote Malaria Settings in Asia and Africa

Grand Ballroom E

Monday, December 8, 8 a.m. – 9:45 a.m.

Death from malaria reflects delay in treatment. Artemisinin-based suppositories can help “buy time” for malaria patients who face a delay in accessing effective injectable antimalarial treatment. Malaria Treatment Guidelines advise that if there is delay in reaching hospital, the patient should be given an initial dose of an artemisinin-based suppository and proceed to the nearest hospital for complete diagnosis and treatment. The symposium describes the results of community-based research on rectal artesunate in different settings in Asia and Africa.

CHAIR

Melba Gomes
World Health Organisation, Geneva, Switzerland

Joel Breman
Fogarty International Center, Bethesda, United States

8 a.m.

RESULTS OF A RANDOMIZED, PLACEBO CONTROLLED TRIAL CARRIED OUT IN REMOTE RURAL AREAS OF AFRICA AND ASIA

John Gyapong
Ministry of Health, Accra, Ghana

8:25 a.m.

ETHICAL CONSIDERATIONS IN THE CONDUCT OF A PLACEBO-CONTROLLED TRIAL IN RURAL AREAS OF BANGLADESH

Abul Faiz
Director General of Health Services, Dhaka, Bangladesh

8:50 a.m.

THE LOGISTICS OF DEPLOYING RECTAL ARTESUNATE IN FIVE COUNTRIES IN AFRICA THROUGH MOTHER COORDINATORS OR VILLAGE HEALTH VOLUNTEERS

Amabelia Rodrigues
Bandim Health Project, Bissau, Guinea-Bissau

9:15 a.m.

ADHERENCE TO REFERRAL ADVICE TO PROCEED TO A HOSPITAL AFTER TREATMENT WITH RECTAL ARTESUNATE. WHAT HAPPENS IN PRACTICE?

Andrew Kitua
National Institute of Medical Research, Dar-es-Salaam, United Republic of Tanzania.

Exhibit Hall Open

Napoleon Ballroom

Monday, December 8, 9:30 a.m. – 10:30 a.m.

Coffee Break

Napoleon Ballroom

Monday, December 8, 9:45 a.m. – 10:15 a.m.

Poster Session A Set-Up

Armstrong Ballroom

Monday, December 8, 9:45 a.m. – 10:15 a.m.

Poster Session A Viewing

Armstrong Ballroom

Monday, December 8, 10:15 a.m. – Noon

Symposium 14

Lone Star Rising, Part II: Recent Efforts to Define the Role of *Amblyomma americanum* in the Transmission of Bartonella, Borrelia, Ehrlichia and Rickettsia Species

Gallery

Monday, December 8, 10:15 a.m. – Noon

An understanding of the association between vectors, vertebrate hosts and pathogens is fundamental for the development of tick-borne disease prevention strategies. The lone star tick, *Amblyomma americanum*, is an aggressive anthropophilic tick often found in high densities in the southern and eastern United States, and is expanding its range northward. Until recently, this tick was regarded as a nuisance pest of humans but is now an important vector of zoonotic pathogens: Ehrlichia chaffeensis, the agent of human monocytic ehrlichiosis, and E. ewingii, the agent of granulocytic ehrlichiosis in humans and dogs. A. americanum also harbors organisms less clearly linked with human disease, Bartonella spp., Borrelia lonestari, Rickettsia amblyommii and an ehrlichial pathogen ("Panola Mountain Ehrlichia") closely related to E. ruminantium. On one hand, clinical presentations are seen after A. americanum tick bites that are not yet definitively associated with specific etiological agents; on the other hand, A. americanum-borne organisms have been elucidated that are not yet associated with specific syndromes. Erythema migrans following A. americanum tick bite continues to be an unanswered clinical question, as is the role of R. amblyommii in mild or asymptomatic rickettsiosis. Furthermore, a recently discovered Coxiella-type symbiont may influence maintenance or transmissions of other pathogens within A. americanum, thereby impacting human disease transmission. This symposium will focus on efforts to describe these organisms, understand their interactions, and sort out their roles in human disease.

CHAIR

Ellen Y. Stromdahl
U.S. Army Center for Health Promotion & Preventive Medicine,
Aberdeen Proving Ground, MD, United States

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

10:15 a.m.

CO-INFECTION RATES OF LONE STAR TICKS WITH RICKETTSIAL AND EHRLICHIAL ORGANISMS

Michael P. Smith
North Carolina State University, Raleigh, NC, United States

10:40 a.m.

DISCOVERY OF "PANOLA MOUNTAIN EHRLICHIA," AN EMERGING ZOOZONOSIS TRANSMITTED BY LONE STAR TICKS

Amanda D. Loftis
Idaho State University, Pocatello, ID, United States

11:05 a.m.

POTENTIAL TRANSMISSION OF BARTONELLA SPECIES BY AMBLYOMMA AMERICANUM

Michael G. Levy
North Carolina State University, Raleigh, NC, United States

11:30 a.m.

MICROBIAL COMMUNITIES AND INTERACTIONS IN AMBLYOMMA AMERICANUM

Keith Clay
Indiana University, Bloomington, IN, United States

Symposium 15

Advances in Geospatial Health

Rhythms I

Monday, December 8, 10:15 a.m. – Noon

Recent advances in health applications of geospatial science will be illustrated by review of new research results on malaria in Southeast Asia, schistosomiasis in Africa and in China, and geohelminths of ruminants in Italy. Presentations on use of satellite remote sensing and geographic information systems (GIS) for spatial analysis will provide the basis for discussion in the context of other geospatial analysis work in the health arena. It is the intent that spatial analysis concepts introduced can be adopted by participants for application to their own research area.

CHAIR

John B. Malone
Louisiana State University, Baton Rouge, LA, United States
Robert Bergquist
World Health Organization (retired), Geneva, Switzerland

10:15 a.m.

MALARIA MODELING AND SURVEILLANCE FROM SPACE

Richard Kiang
NASA, Greenbelt, MD, United States

10:40 a.m.

CLIMATE CHANGE AND SCHISTOSOMA JAPONICUM IN CHINA

Zhou Xiaonong
Institute of Parasitic Diseases-China Centers for Disease Control and Prevention, Shanghai, China

11:05 a.m.

LANDSCAPE EPIDEMIOLOGY OF ANIMAL GEOHELMINTHS IN ITALY

Laura Rinaldi
University of Naples, Naples, Italy



11:30 a.m.

GIS AND SCHISTOSOMIASIS IN AFRICA: THE CONTRAST INITIATIVE

Thomas Kristensen
DBL-Institute for Health Research and Development, Frederiksberg, Denmark

Symposium 16

Tropical Medicine in a Temperate Climate

Rhythms III/III

Monday, December 8, 10:15 a.m. – Noon

This session will present four case series of patients attending this hospital over the last eight years, focusing specifically on: 1. the prevalence of renal impairment in adults presenting with acute *P. falciparum* malaria; 2. imported enteric fever – clinical and laboratory features among 78 cases of culture positive *S. typhi* and paratyphi; 3. the changing pattern of acute hepatitis in travellers – highlighting that hepatitis E is now the most common; 4. amoebic liver abscess in a travelling population – clinical and laboratory features of 20 cases seen in London.

CHAIR

Tom Doherty
Hospital for Tropical Diseases, London, United Kingdom
Philip Gothard
Hospital for Tropical Diseases, London, United Kingdom

10:15 a.m.

THE PREVALENCE OF RENAL IMPAIRMENT AMONG TRAVELLERS WITH ACUTE *P. FALCIPARUM* MALARIA

Maggie Armstrong
Hospital for Tropical Diseases, London, United Kingdom

10:40 a.m.

IMPORTED ENTERIC FEVER – A REVIEW OF 78 CULTURE POSITIVE CASES

Trupti Patel
Hospital for Tropical Diseases, London, United Kingdom

11:05 a.m.

THE CHANGING PATTERN OF ACUTE IMPORTED HEPATITIS

Michael Brown
Hospital for Tropical Diseases, London, United Kingdom

11:30 a.m.

AMOEBIC LIVER ABSCESS AMONG TRAVELERS

Stephen G. Wright
Hospital for Tropical Diseases, London, United Kingdom

Scientific Session 17

Bacteriology I – Water and Hygiene

Waterbury

Monday, December 8, 10:15 a.m. – Noon

CHAIR

Stephen Luby
International Center for Diarrhoeal Disease Research Bangladesh, Dhaka, Bangladesh

CHAIR

Pavani Kalluri Ram
University at Buffalo, Buffalo, NY, United States

10:15 a.m.

15

ANALYSIS OF THE EFFECTIVENESS AND SUSTAINABILITY OF METHODS FOR HOUSEHOLD WATER TREATMENT AND SAFE STORAGE

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

10:30 a.m.

16

SUCCESSFUL PROMOTION OF WATER TREATMENT AND HAND HYGIENE THROUGH A PILOT CLINIC-BASED INTERVENTION FOR PREGNANT WOMEN SEEKING ANTENATAL CARE: MALAWI, MAY 2007-MARCH 2008

Anandi N. Sheth¹, Elizabeth T. Russo¹, Manoj Menon¹, Amose C. Kudzala², John D. Kelly¹, Merri Weinger³, Kiwe Sebulya², Humphreys Masuku⁴, Kathleen Wannemuehler¹, Rob Quick¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²United Nations Children's Fund, Lilongwe, Malawi, ³United States Agency for International Development, Washington, DC, United States, ⁴Government of Malawi Ministry of Health, Lilongwe, Malawi

10:45 a.m.

17

USE OF A NOVEL METHOD TO DETECT REACTIVITY TO STRUCTURED OBSERVATION FOR MEASUREMENT OF HANDWASHING BEHAVIOR

Pavani Kalluri Ram¹, Amal K. Halder², Stewart P. Granger³, Peter Hall⁴, Therese Jones³, David Hitchcock³, Benjamin Nygren⁵, M Sirajul Islam², John W. Molyneaux⁶, Stephen P. Luby²
¹University at Buffalo, Buffalo, NY, United States, ²International Center for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³Unilever R&D Port Sunlight, Bebington, United Kingdom, ⁴4-Front Research UK Ltd Capenhurst, United Kingdom, ⁵Emory University, Atlanta, GA, United States, ⁶Water and Sanitation Program, The World Bank Group, Washington, DC, United States

Monday, December 8

18

ACCEPTABILITY AND USE OF ALCOHOL-BASED WATERLESS
HAND SANITIZER AMONG STREET FOOD VENDORS IN PILANI,
INDIA

Melissa L. Robins¹, Nirupama Prakash², S. Nadeem Fatmi²,
Surya Kant Moharana², Pavani Kalluri Ram¹

¹University at Buffalo, Buffalo, NY, United States, ²Birla Institute
of Technology and Science, Pilani, Rajasthan, India

11:15 a.m.

19

A GRAVITY-FEED HOUSEHOLD WATER PURIFIER DEVICE FOR
USE IN THE INDIAN MARKETPLACE: LABORATORY AND FIELD
EXPERIENCES

Abhay Kumar¹, P. A. Shankar², Muralidhara Rao³, Michael
Bridges⁴, **Jeffrey F. Williams**⁴

¹Eureka Forbes, Mumbai, India, ²Filtrex Limited, Bangalore,
India, ³Eureka Forbes, Bangalore, India, ⁴HaloSource
Incorporated, Bothell, WA, United States

11:30 a.m.

20

DIFFICULTIES IN SUSTAINING IMPROVED HANDWASHING
BEHAVIOR, KARACHI, PAKISTAN

Stephen P. Luby¹, Mubina Agboatwalla², Anna Bowen³, Robert
M. Hoekstra³

¹International Center for Diarrhoeal Disease Research,
Bangladesh, Dhaka, Bangladesh, ²HOPE, Karachi, Pakistan,
³Centers for Disease Control and Prevention, Atlanta, GA, United
States

11:45 a.m.

21

INTERNALISATION OF MICROBES IN VEGETABLES: MICROBIAL
LOAD OF EXOTIC VEGETABLES AND THE RELATIONSHIP WITH
DIFFERENT WATER SOURCES OF IRRIGATION

Eric Sampene-Donkor

University of Ghana Medical School, Accra, Ghana

Scientific Session 18

Malaria – Vaccines II

Napoleon A123

Monday, December 8, 10:15 a.m. – Noon

CHAIR

Ruth D. Ellis

National Institutes of Health, Rockville, MD, United States

Seth Owusu-Agyei

Kintampo Health Research Center, Kintampo, Ghana

10:15 a.m.

22

A PHASE 1 TRIAL OF THE MALARIA TRANSMISSION BLOCKING
VACCINE CANDIDATES PFS25 AND PVS25 FORMULATED WITH
MONTANIDE ISA 51

Ruth D. Ellis¹, Yimin Wu¹, Donna Shaffer², Erica Fontes², Elissa
Malkin¹, Siddhartha Mahanty¹, Michael P. Fay¹, David Narum¹,
Kelly Rausch¹, Aaron P. Miles¹, Joan Aebig¹, Andrew Orcutt¹,
Olga Muratova¹, Guanhong Song¹, Lynn Lambert¹, Daming Zhu¹,
Kazutoyo Miura¹, Carole Long¹, Allan Saul¹, Louis H. Miller¹,
Anna P. Durbin²

¹National Institutes of Health, Rockville, MD, United States,

²Johns Hopkins Center for Immunization Research, Washington,
DC, United States

10:30 a.m.

23

A PHASE IB STUDY OF THE SAFETY OF MSP3-LSP CANDIDATE
MALARIA VACCINE IN TANZANIAN CHILDREN AGED 12-24
MONTHS

John P. Lusingu¹, Salum Msham¹, Samuel Gesase¹, Samuel
Sembuche¹, Seth Misago¹, Method Segeja¹, Daniel Minja¹,
Acleus Rutta¹, Filbert Francis¹, Ramadhan Noor², Roma Chilengi²,
Martha M. Lemnge¹, Pierre Druilhe³

¹National Institute for Medical Research, Tanga, United Republic
of Tanzania, ²African Malaria Network Trust, Dar es Salaam,
United Republic of Tanzania, ³Institut Pasteur Paris, Paris,
France

10:45 a.m.

24

RANDOMIZED, CONTROLLED, PHASE 1 STUDY OF THE SAFETY
AND IMMUNOGENICITY OF THE AMA1-C1/ALHYDROGEL[®]
+ CPG 7909 VACCINE FOR *PLASMODIUM FALCIPARUM*
MALARIA, IN SEMI-IMMUNE MALIAN ADULTS

Issaka Sagara¹, Ruth Ellis², Alassane Dicko¹, Mohamed Balla
Niambele¹, Beh Kamate¹, Ousmane Guindo¹, Mark Pierce²,
Michael Fay², Mahamadou S. Sissoko¹, Merepen A. Guindo¹,
Ousmane Kante¹, Renion Saye¹, Amagana Dolo¹, Kazutoyo
Miura², Dapa A. Diallo¹, Louis Miller², Ogobara K. Doumbo¹

¹MRTC/FMPOS, University of Bamako, Bamako, Mali, ²MVDB/
NIAID/National Institutes of Health, Twinbrook, MD, United
States

11 a.m.

25

RANDOMIZED, CONTROLLED, PHASE 2B CLINICAL TRIAL TO EVALUATE THE SAFETY, IMMUNOGENICITY AND EFFICACY OF WALTER REED ARMY INSTITUTE OF RESEARCH'S AMA-1 MALARIA VACCINE (FMP2.1) ADJUVANTED IN GSK BIOLOGICALS' AS02 VS. RABIES VACCINE IN 1-6-YEAR-OLD CHILDREN IN BANDIAGARA, MALI

Mahamadou A. Thera¹, Ogobara K. Doumbo¹, Drissa Coulibaly¹, Matthew B. Laurens², Abdoulaye K. Kone¹, Ando B. Guindo¹, Dapa A. Diallo¹, Karim Traore¹, Issa Diarra¹, Amadou Niangaly¹, Amagana Dolo¹, Modibo Daou¹, Mady Sissoko¹, Mahamadou S. Sissoko¹, Bourema Kouriba¹, Drissa Traore¹, Kirsten E. Lyke², Shannon L. Takala², Olivier Godeaux³, Carter Diggs⁴, Sheetij Dutta⁵, V. Ann Stewart⁵, Brent House⁵, D. Gray Heppner⁵, Christopher V. Plowe², Joe Cohen³, W. Ripley Ballou³, Joelle Thonnard, Marie-Claude Dubois³, Lorraine Soisson, Lisa A. Ware⁵, David E. Lanar⁵

¹University of Bamako Faculty of Medicine, Bamako, Mali, ²University of Maryland School of Medicine, Baltimore, MD, United States,

³GlaxoSmithKline Biologicals, Rixensart, Belgium, ⁴U.S. Agency for International Development, Washington, DC, United States, ⁵Walter Reed Army Institute of Research, Silver Spring, MD, United States

11:15 a.m.

26

PHASE IIB, RANDOMIZED, DOUBLE-BLIND TRIAL TO ASSESS THE EFFICACY, SAFETY AND IMMUNOGENICITY OF THE CANDIDATE MALARIA VACCINE RTS,S/AS01 IN KENYAN AND TANZANIAN CHILDREN

P. Bejon¹, J. Lusingu², **Ally Olotu**¹, A. Leach³, M. Lievens³, J. Vekemans³, S. Msham¹, T. Lang¹, J. Gould², M.C. Dubois³, M.A. Demoitie³, P. Vansadia⁴, T. Carter⁴, P. Njuguna¹, K. Kawuondo¹, S. Gesase², C. Drakeley⁵, B. Savarese⁴, T. Villafana⁴, W. R. Ballou³, J. Cohen³, E. Riley⁵, M. Lemnge², K. Marsh¹, L. von Seidlein²

¹KEMRI Wellcome Collaborative Research Programme, Kilifi, Kenya, ²Joint Malaria Project, Korogwe, United Republic of Tanzania, ³GlaxoSmithKline Biologicals, Rixensart, Belgium, ⁴PATH Malaria Vaccine Initiative, Bethesda, MD, United States, ⁵London School of Hygiene and Tropical Medicine, London, United Kingdom

11:30 a.m.

27

PHASE IIB, RANDOMIZED, DOUBLE-BLIND TRIAL TO ASSESS THE SAFETY, IMMUNOGENICITY AND EFFICACY OF THE CANDIDATE MALARIA VACCINE RTS,S/AS02 WHEN ADMINISTERED ACCORDING TO THE EXPANDED PROGRAM ON IMMUNIZATION SCHEDULE

Salim Abdulla¹, R. Oberholzer², O. Juma¹, A. Leach³, J. Vekemans³, M. Lievens³, S. Kuboja¹, N. Salim¹, T. Carter⁴, M.A. Demoitie³, M.C. Dubois³, A. Jumanne¹, F. Machel¹, C. Membi¹, M. Shomari¹, T. Aebi², H. Mshinda¹, T. Villafana⁴, J. Cohen³, W. R. Ballou³, M. Tanner²

¹Bagamoyo Research and Training Center, Ifakara Health Research and Development Centre, Dar-es-Salaam, United Republic of Tanzania, ²Swiss Tropical Institute, Basel, Switzerland, ³GlaxoSmithKline Biologicals, Rixensart, Belgium, ⁴PATH Malaria Vaccine Initiative, Bethesda, MD, United States

11:45 a.m.

28

PHASE II, RANDOMIZED TRIAL TO ASSESS THE SAFETY AND IMMUNOGENICITY OF THE CANDIDATE MALARIA VACCINES RTS,S/AS02 AND RTS,S/AS01 WHEN GIVEN ACCORDING TO DIFFERENT VACCINATION SCHEDULES IN CHILDREN IN GHANA

Seth Owusu-Agyei¹, D. Ansong², K. P. Asante¹, S. Owusu-Kwarteng², R. Owusu¹, N.A. Wireko Brobby², D. Dosoo¹, A. Y. Osei Akoto², K. Osei-Kwakye¹, E. Asafo Adjei², K. Owusu Boahen¹, J. Sylverken², G. Adjei¹, D. Sambian², J. Vekemans³, O. Ofori-Anyinam³, M. Lievens³, M. Demoitie³, J. Cohen³, W. R. Ballou³, B. Savarese⁴, B. Greenwood⁵, T. Bawa⁶, J. Evans⁶, T. Agbenyega²

¹Kintampo Health Research Center, Kintampo, Ghana, ²School of Medical Sciences, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ³GlaxoSmithKline Biologicals, Rixensart, Belgium, ⁴PATH Malaria Vaccine Initiative, Bethesda, MD, United States, ⁵London School of Hygiene and Tropical Medicine, London, United Kingdom, ⁶Kumasi Centre for Collaborative Research, Kumasi, Ghana

Scientific Session 19

Malaria/Mosquitoes: Prevention of Transmission

Maurepas

Monday, December 8, 10:15 a.m. – Noon

CHAIR

Rhoel R. Dinglasan
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Mark L. Wilson
University of Michigan School of Public Health, Ann Arbor, MI, United States

10:15 a.m.

29

REGIME SHIFTS IN MALARIA INCIDENCE PATTERNS ARE RELATED TO CLIMATIC VARIABILITY, BUT MEDIATED BY INSECTICIDE TREATED NET USE

Luis F. Chaves¹, Akira Kaneko², Mercedes Pascual¹, Mark L. Wilson¹

¹University of Michigan, Ann Arbor, MI, United States, ²Karolinska Institutet, Stockholm, Sweden

10:30 a.m.

30

PROTEIN-GLYCAN INTERACTIONS MEDIATE MALARIA PARASITE TRANSMISSION

Rhoel R. Dinglasan¹, Toin H. van Kuppevelt², Luisella Verotta³, Paolo Ferruti³, Elisabetta Ranucci³, Anil K. Ghosh¹, Aditi Alaganan¹, Akio Saito⁴, Marcelo Jacobs-Lorena¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Radboud University of Nijmegen, Nijmegen, Netherlands, ³University of Milan, Milan, Italy, ⁴Kinki University, Osaka, Japan

Monday, December 8

31

MODELLING THE POTENTIAL IMPACT OF ARTEMISININ COMBINATION THERAPIES AND LONG-LASTING DRUG COMBINATIONS ON MALARIA TRANSMISSION INTENSITY: A CASE STUDY IN TANZANIA

Lucy Okell¹, Chris Drakeley¹, Teun Bousema², Chris J. Whitty¹, Azra C. Ghani³

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Radboud University Nijmegen Medical Centre, Nijmegen, Netherlands, ³Imperial College, London, United Kingdom

11 a.m.

32

CONTRIBUTION OF EXPOSURE-REDUCING INTERVENTIONS TO THE GOAL OF MALARIA ELIMINATION IN ENDEMIC AREAS

Azra C. Ghani¹, Colin J. Sutherland², Eleanor M. Riley², Chris J. Drakeley², Jamie Griffin¹, Roly D. Gosling², Joao A. Filipe³

¹Imperial College London, London, United Kingdom, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³University of Cambridge, Cambridge, United Kingdom

11:15 a.m.

33

NETWORK METAPOPOPULATION MODELING OF MALARIA VECTOR CONTROL

Laith W. Yakob, Guiyun Yan

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

11:30 a.m.

34

DIRECT AND INDIRECT EFFECTS OF HIGH COVERAGE VECTOR CONTROL ON PREVALENCE OF MALARIAL INFECTION

Immo Kleinschmidt¹, Christopher Schwabe², Luis Benavente², Luis Segura²

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Medical Care Development International, Silver Spring, MD, United States

11:45 a.m.

35

RAPID INCREASE IN COVERAGE WITH LONG-LASTING INSECTICIDAL NETS IN AMHARA, OROMIA AND SNNP REGIONS OF ETHIOPIA

Estifanos Biru Shargie¹, Patricia M. Graves², Asefaw Getachew¹, Jimmie Hwang³, Frank O. Richards², Paul M. Emerson², Teshome Gebre¹, Aryc W. Mosher², Tekola Endeshaw¹, Yeshewamebrat Ejigsemahu¹, Afework Hailemariam⁴, Eskinder Tenaw⁵, John Miller⁶, Ambachew Medhin Yohannes⁷, Jeremiah Ngondi⁸, Daddi Jima⁴, Zerihun Tadesse⁴, Tedros Adhanom Ghebreyesus⁴

¹The Carter Center, Addis Ababa, Ethiopia, ²The Carter Center, Atlanta, GA, United States, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Ministry of Health, Addis Ababa, Ethiopia, ⁵Central Statistical Agency, Addis Ababa, Ethiopia, ⁶Malaria Control and Evaluation Partnership in Africa, Lusaka, Zambia, ⁷World Health Organization, Addis Ababa, Ethiopia, ⁸University of Cambridge, Cambridge, United Kingdom

Symposium 20

Addressing the R&D Challenges in Making New Drugs Available for Human African Trypanosomiasis (aka Sleeping Sickness): Potential in the Pipeline and Recent Clinical Results

Bayside BC

Monday, December 8, 10:15 a.m. – Noon

Human African trypanosomiasis (HAT or sleeping sickness) is a life-threatening disease which threatens 60 million people in 36 countries in Africa. Caused by *Trypanosoma brucei* parasites transmitted by tsetse flies, HAT is calculated by WHO estimates to infect between 50,000 and 70,000 people in sub-Saharan Africa. Currently available treatments for HAT are few and limited due to toxicity and lost efficacy in several regions. Treatment is stage-specific, with more toxic and more difficult-to-administer treatments for stage 2 disease. There are a small number of projects for improved treatments currently in clinical development. This symposium will address the most recent results from these clinical trials and will also explore the most interesting candidates in the pipeline, including fexinidazole, a drug candidate currently in preclinical development by the Drugs for Neglected Diseases initiative (DNDi). DNDi, a new product development partnership (PDP) committed to develop new treatments for this and other fatal-yet-neglected diseases, and the HAT Platform, a regional clinical research partnership, are holding this symposium in order to also present results from a pivotal Phase III study and to review the opportunities and challenges ahead in the different phases of research and development of new drugs for sleeping sickness.

CHAIR

Leon Kazumba

HAT Platform, Kinshasa, The Democratic Republic of the Congo

Pere Simarro

World Health Organization, Geneva, Switzerland

10:15 a.m.

HAT PLATFORM – SUCCESS TO DATE, AND CHALLENGES/ OPPORTUNITIES AHEAD IN OVERCOMING DIFFICULTIES IN CLINICAL RESEARCH OF HAT DRUGS AND IN DEVELOPING REGIONAL RESEARCH PLATFORM

Dawson Mbulamberi

Ministry of Health, Kampala, Uganda

10:40 a.m.

PHASE III RESULTS OF MULTI-CENTRE STUDY EVALUATING NIFURTIMOX-EFLORITHINE COMBINATION FOR TREATMENT (NECT) OF STAGE 2 HAT

Gerardo Priotto

Epicentre, Paris, France

11:05 a.m.

RESEARCH RESULTS EVALUATING THE DIAMIDINE CLASS FOR THE TREATMENT OF HAT

Richard Tidwell

Consortium for Parasitic Drug Development, University of North Carolina, Chapel Hill, NC, United States

11:30 a.m.

FEXINIDAZOLE: A REDISCOVERED NITROIMIDAZOLE DRUG CANDIDATE MOVING INTO CLINICAL DEVELOPMENT FOR HAT

Els Torreele

Drugs for Neglected Diseases initiative, Geneva, Switzerland



Symposium 21

Genomic Approaches to Host-Pathogen Interactions for *Plasmodium falciparum*

Grand Ballroom A

Monday, December 8, 10:15 a.m. – Noon

Genomic approaches, methodologies and technologies for evaluation of both *P. falciparum* and its host organisms — humans and the anopheles mosquito — will be presented and discussed. With increased genetic and genomic knowledge, this symposium will review the latest data and technologies, as well as discuss how these data can be leveraged to identify signatures of natural selection and to infer biologic meaning about these genomic signatures of selection. Participants will also discuss real world applications of these genetic and genomic data toward understanding basic biologic and immunologic mechanisms, as well for epidemiologic, clinical, vaccine or drug studies in the natural setting.

CHAIR

Dyann F. Wirth
Harvard School of Public Health, Boston, MA, United States

Marc Muskavitch
Boston College, Boston, MA, United States

10:15 a.m.

GENETIC VARIATION IN THE HUMAN HOST — LEVERAGING SIGNATURES OF NATURAL SELECTION TO UNDERSTAND HOST-PATHOGEN INTERACTIONS

Dominic Kwiatkowski
Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom

10:40 a.m.

GENETIC VARIATION IN *P. FALCIPARUM* — USING GENETIC VARIATION IN THE PARASITE TO IDENTIFY GENETIC LOCI UNDER NATURAL SELECTION.

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

11:05 a.m.

GENETIC VARIATION IN THE ANOPHELES HOST — HOW GENETIC AND GENOMIC DIFFERENCES IN THE VECTOR CONTRIBUTE TO PARASITE DEVELOPMENT AND SURVIVAL

Fotis C. Kafatos
Imperial College London, London, United Kingdom

11:30 a.m.

APPLYING KNOWLEDGE AND TOOLS OF GENETIC VARIATION IN THE FIELD FOR DEVELOPMENT OF INTERVENTION STRATEGIES

Christian T. Happi
University of Ibadan, Ibadan, Nigeria

Scientific Session 22

Intestinal and Tissue Helminths I: *Taenia/* Cysticercosis

Grand Ballroom B

Monday, December 8, 10:15 a.m. – Noon

CHAIR

Ana Flisser
Universidad Nacional Autonoma de Mexico, Faculty of Medicine, Mexico City, Mexico

Theodore E. Nash
National Institutes of Health, Bethesda, MD, United States

10:15 a.m.

36

IN VITRO ASSESSMENT OF TAENIA CRASSICEPS MOTILITY AND ITS APPLICATION TO THE STUDY OF ANTHELMINTIC TREATMENT IN NEUROCYSTICERCOSIS

Erick Scott¹, Juraj Kabat², Owen Schwartz², Theodore E. Nash², Siddhartha Mahanty²

¹National Institutes of Health, Rockville, MD, United States,

²National Institutes of Health, Bethesda, MD, United States

10:30 a.m.

37

TAENIA SOLIUM CYSTICERCOSIS IN NATURALLY INFECTED PIGS: VIABILITY OF CYSTICERCUS AND PERSISTENCY OF SPECIFIC ISOTYPE ANTIBODIES AND CYSTICERCAL ANTIGENS AFTER TREATMENT WITH OXFENDAZOLE

Chummy S. Sikasunge¹, Maria V. Johansen², Lee A. Willingham III³, Pall S. Leifsson⁴, Isaac K. Phiri¹

¹School of Veterinary Medicine, University of Zambia, Lusaka, Zambia, ²DBL – Centre for Health Research and Development, Faculty of Life Sciences, University of Copenhagen, Thorvaldsensvej, Frederiksberg C, Copenhagen, Denmark, ³WHO/FAO Collaborating Centre for Parasitic Zoonoses, Faculty of Life Sciences, University of Copenhagen, Dyrølægevej 100, 1870 Frederiksberg C, Copenhagen, Denmark, ⁴Department of Veterinary Pathobiology, Faculty of Life Sciences, University of Copenhagen, Ridebanevej, Frederiksberg C, Copenhagen, Denmark

10:45 a.m.

38

EFFECTIVENESS OF HEALTH EDUCATION INTERVENTION TRIAL TO REDUCE PORCINE CYSTICERCOSIS IN NORTHERN TANZANIA

Helena A. Ngowi¹, Hélène Carabin², M. R. Mlozi¹, Ayub A. Kassuku¹, J. E. Mlangwa¹, A. Lee Willingham³

¹Sokoine University of Agriculture, Morogoro, United Republic of Tanzania, ²University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, ³WHO/FAO Collaborating Center for Parasitic Zoonoses, Faculty of Life Sciences, University of Copenhagen, Frederiksberg, Denmark

Monday, December 8

11 a.m.

39

A NATIONAL MODEL FOR THE CONTROL OF A PARASITIC DISEASE: CYSTICERCOSIS IN MEXICO**Ana Flisser**¹, Javier Calderon-Albor¹, Miguel Robles-Barcena¹, Gina Martinez-Flisser², Jose Narro-Robles¹¹Universidad Nacional Autonoma de Mexico, Faculty of Medicine, Mexico City, Mexico, ²Private, Mexico City, Mexico

11:15 a.m.

40

KNOWLEDGE AND BELIEFS ASSOCIATED WITH EPILEPSY AND CYSTICERCOSIS IN BURKINA FASOAlida Da¹, Athanase Millogo², Sennen Hounton³, Linda D. Cowan⁴, Rasmané Ganaba⁵, Pascal Nitiema⁴, **Hélène Carabin**⁴¹Université de Ouagadougou, Ouagadougou, Burkina Faso, ²Centre Universitaire Hospitalier Souro Sanous, Bobo Dioulasso, Burkina Faso, ³West Africa Field Epidemiology and Laboratory Training Program, Ouagadougou, Burkina Faso, ⁴University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, ⁵GREFSaD, Bobo Dioulasso, Burkina Faso

11:30 a.m.

41

PREVALENCE OF EPILEPSY, CYSTICERCOSIS AND NEUROCYSTICERCOSIS IN BURKINA FASO**Hélène Carabin**¹, Athanase Millogo², Sennen Hounton³, Nicolas Praet⁴, Linda D. Cowan¹, Pascal Nitiema¹, Pierre Dorny⁴, Zékiba Tarnagda⁵, Rasmané Ganaba⁶¹University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, ²Centre Universitaire Hospitalier Souro Sanous, Bobo Dioulasso, Burkina Faso, ³West Africa Field Epidemiology and Laboratory Training Program, Ouagadougou, Burkina Faso, ⁴Institute of Tropical Medicine, Antwerp, Belgium, ⁵IRSS, Bobo Dioulasso, Burkina Faso, ⁶GREFSaD, Bobo Dioulasso, Burkina Faso

11:45 a.m.

42

COMBINED GENOTYPAGE AND *IN SILICO* COMPARISON STUDIES OF PIG TAPEWORM *TAENIA SOLIUM* MATCH WITH UNIQUE ETHNOGEOGRAPHY OF MADAGASCAR**Lorraine Michelet**

Pitié-Salpêtrière Hospital, Paris, France

(ACMCIP Abstract)

Scientific Session 23

Flavivirus II – Dengue II

Grand Ballroom C

Monday, December 8, 10:15 a.m. – Noon

CHAIR

Derek A. Cummings

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

CHAIR

Ana Fernandez-Sesma

Mount Siani School of Medicine, New York, NY, United States

10:15 a.m.

43

LACK OF TYPE I IFN IN DENGUE VIRUS (DENV) INFECTED HUMAN BLOOD CELLS MAY ACCOUNT FOR INEFFICIENT IMMUNE RESPONSES DURING DENV INFECTION**Ana Fernandez-Sesma**¹, Dabeiba Bernal-Rubio¹, Dorothy Kaminski¹, Kelley Boyd¹, Hannah Phipps-Yonas¹, Thomas M. Moran¹, Adolfo Garcia-Sastre¹, Jorge Munoz-Jordan²¹Mount Sinai School of Medicine, New York, NY, United States, ²Centers for Disease Control, Dengue Branch, San Juan, PR, United States

10:30 a.m.

44

INTRINSIC ANTIBODY DEPENDENT ENHANCEMENT OF DENGUE INFECTION IN PRIMARY HUMAN MONOCYTIC PHAGOCYTES AND CELL LINES**Zhihua Kou**¹, Matthew H. Quinn¹, Huiyuan Chen¹, Jacob J. Schlesinger¹, Federica Sallusto², Xia Jin¹¹University of Rochester, Rochester, NY, United States, ²Institute of Research in Biomedicine, Bellinzona, Switzerland**(ACMCIP Abstract)**

10:45 a.m.

45

A MOUSE MODEL FOR ANTIBODY-ENHANCED DENGUE VIRUS INFECTION AND DISEASE**Scott Balsitis**, Katherine Williams, Jennifer L. Kyle, Robert Beatty, Eva Harris

Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

11 a.m.

46

PRELIMINARY DATA ON A POTENTIAL RHESUS MACAQUE MODEL FOR DHF/DSS**Guey Chuen Perng**, Nattawat Onlamoon, Hui-Mien Hsiao, Margaret C. Tse, Francois Villinger, Aftab A. Ansari

Emory University School of Medicine, Atlanta, GA, United States



11:15 a.m.

47

INCREASED DENGUE DISEASE SEVERITY IN NICARAGUA IS ASSOCIATED WITH A CLADE REPLACEMENT IN DENGUE VIRUS 2

Angel Balmaseda¹, Tangni Gomez¹, Matthew Henn², Niall Lennon², Guillermina Kuan³, Crisanta Rocha⁴, Sheyla Silva⁴, Aubree Gordon⁵, Bruce Birren², **Eva Harris**⁵
¹Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, ²Broad Institute, Cambridge, MA, United States, ³Socrates Flores Vivas Health Center, Managua, Nicaragua, ⁴Hospital Infantil Manuel Jesús de Rivera, Managua, Nicaragua, ⁵Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States

11:30 a.m.

48

SPATIAL HETEROGENEITY IN THE FORCE OF INFECTION OF DENGUE IN THAILAND AND THE SPATIAL STRUCTURE OF PHASE RELATIONSHIPS IN MULTIANNUAL OSCILLATIONS

Derek A. Cummings¹, Ira Schwartz², Donald S. Burke³, Robert V. Gibbons⁴
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²United States Naval Research Laboratory, Washington, DC, United States, ³University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, United States, ⁴Armed Forces Institute of Medical Sciences, Bangkok, Thailand

11:45 a.m.

49

A UNIFYING FRAMEWORK FOR THE COMPLEX REGIONAL DYNAMICS OF MULTI-SEROTYPE DENGUE VIRUS TRANSMISSION

Karen M. Campbell¹, Arthur Getis¹, Jared Aldstadt², Kristopher Kuzera¹, Kumnuan Ungchusak³, Richard A. Levine¹, Thomas W. Scott⁴
¹San Diego State University, San Diego, CA, United States, ²University at Buffalo, Buffalo, NY, United States, ³Ministry of Public Health, Nonthaburi, Thailand, ⁴University of California, Davis, CA, United States

Symposium 24

Careers in Tropical Medicine – The Paths to Success Part II

Grand Ballroom D

Monday, December 8, 10:15 a.m. – Noon

This symposium is designed for trainees in the fields of tropical medicine and global health. The presenters will explore aspects of developing a successful career in tropical medicine, explain how to integrate different skills to obtain funding and highlight the value of ASTMH membership.

CHAIR

Stephen Higgs
University of Texas Medical Branch, Galveston, United States

10:15 a.m.

NAVIGATING THE NATIONAL INSTITUTES OF HEALTH SYSTEM

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

10:40 a.m.

ALL THESE DATA...MANUSCRIPT PREPARATION, SUBMISSION AND MAKING REVIEWERS HAPPY

James Kazura
Case Western Reserve University, Cleveland, OH, United States

11:05 a.m.

WHEN THE CAMERAS ARE RUNNING – INTERVIEW SKILLS

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

11:30 a.m.

RESOURCES FROM THE BURROUGHS WELLCOME FUND – “MAKING THE RIGHT MOVES – A PRACTICAL GUIDE TO SCIENTIFIC MANAGEMENT FOR POSTDOCS AND NEW FACULTY” AND “INTERNATIONAL CAREERS”

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

11:45 a.m.

QUESTIONS AND ANSWERS

Symposium 25

Home Management of Malaria in 2008: Improving Access to ACTs and Diagnostics at the Community Level in Sub-Saharan Africa

Grand Ballroom E

Monday, December 8, 10:15 a.m. – Noon

Home Management of Malaria (HMM) is becoming increasingly important as a way to increase access to treatment by underserved populations, in particular in sub-Saharan Africa (SSA). Developed in the 1990s, when chloroquine was the antimalarial drug of choice, HMM has in recent years faced the challenge to incorporate new tools like artemisinin-based combination therapy (ACT) and rapid diagnostic tests (RDT) for malaria. Furthermore, due to the dramatic increase in numbers of people living in urban areas in SSA, there is a need to develop and test the efficacy of a HMM strategy adapted to urban settings. Finally, findings will be presented on the additional benefit that community-level treatment of both malaria and pneumonia is going to provide compared to community-level treatment of malaria only, and on how to an integrated strategy for community-level management of both diseases can be designed and delivered. Results will be presented that provide the evidence to orient antimalarial policy for case management at the community level.

CHAIR

Franco Pagnoni
World Health Organization, Geneva, Switzerland

Joel G. Breman
National Institutes of Health, Bethesda, MD, United States

10:15 a.m.**FEASIBILITY, ACCEPTABILITY AND EFFECTIVENESS OF ACT USED WITHIN THE CONTEXT OF HMM**Ikeoluwapo O. Ajayi
*Univerity of Ibadan, Ibadan, Nigeria***10:35 a.m.****THE USE OF RDTs IN THE CONTEXT OF HMM**James Tibenderana
Uganda Malaria Research Center, Kampala, Uganda
Thomas Anyorigiya
*Navrongo Research Center, Navrongo, Ghana***11 a.m.****HOME MANAGEMENT OF MALARIA IN URBAN SETTINGS IN SUB-SAHARAN AFRICA: A FEASIBLE OPTION?**Patricia Akweongo
*Navrongo Health Research Centre, Navrongo, Ghana***11:25 a.m.****INTEGRATED MANAGEMENT OF MALARIA AND PNEUMONIA AT THE COMMUNITY-LEVEL: PRELIMINARY RESULTS FROM A CLUSTER-RANDOMIZED TRIAL**John O. Gyapong
*Ghana Health Service, Accra, Ghana***11:45 a.m.****DISCUSSION**Joel G. Breman
*Fogarty International Center, Bethesda, MD, United States***Exhibit Hall Open/Light Lunch***Napoleon Ballroom***Monday, December 8, Noon – 1:30 p.m.****Poster Session 26/Light Lunch****Poster Session A (#50-321 and Late Breakers)***Armstrong Ballroom***Monday, December 8, Noon – 1:30 p.m.****Arthropods/Entomology-Other****50****ECOLOGICAL AND GENETIC RELATIONSHIPS OF THE FOREST-FORM AMONG CHROMOSOMAL AND MOLECULAR FORMS OF THE MALARIA VECTOR *ANOPHELES GAMBIAE* S. S.**Yoosook Lee¹, Claudio R. Meneses¹, Abdrahamane Fofana², Aurélie G. Andrianarivo¹, Rory D. McAbee¹, Etienne Fondjo³, Sekou F. Traoré², Anthony J. Cornel¹, Gregory C. Lanzaro¹
¹*University of California Davis, Davis, CA, United States*,
²*Malaria Research and Training Center, Faculty of Medicine, University of Mali, Bamako, Mali*, ³*National Malaria Program, Ministry of Health, Yaoundé, Cameroon***51****CROSS-SCALE PATTERNS OF PALM TREE INFESTATION BY TRIATOMINE BUGS (*HETEROPTERA: TRIATOMINAE*) IN AMAZONIA**Fernando Abad-Franch¹, Gonçalo Ferraz¹, Ciro Campos¹, Francisco S. Palomeque², Mario J. Grijalva³, H Marcelo Aguilar⁴, Michael A. Miles⁵
¹*Instituto Leônidas e Maria Deane – Fiocruz Amazônia, Manaus, Brazil*, ²*Rollins School of Public Health, Emory University, Atlanta, GA, United States*, ³*Tropical Disease Institute, Biomedical Sciences Department, Ohio University College of Osteopathic Medicine, Athens, OH, United States*, ⁴*Organismo Andino de Salud – Convenio Hipólito Unanue/PAMAFRO, Quito, Ecuador*, ⁵ *p.m.BU-ITD, London School of Hygiene and Tropical Medicine, London, United Kingdom***52****SCABIES: EMERGING IVERMECTIN RESISTANCE IN A NEGLECTED ECTOPARASITIC DISEASE**Kate E. Mounsey¹, James S. McCarthy¹, Deborah C. Holt², Cielo Pasay¹, Bart J. Currie³, Shelley F. Walton²
¹*Queensland Institute of Medical Research, University of Queensland, Brisbane, Australia*, ²*Menzies School of Health Research, Charles Darwin University, Darwin, Australia*, ³*Northern Territory Clinical School, Flinders University, Darwin, Australia***53****POPULATION GENETIC STRUCTURE OF *GLOSSINA FUSCIPES* IN UGANDA**Jon Beadell¹, Patrick Abila², Chaz Hyseni¹, Serap Aksoy¹, Loyce Okedi², Adalgisa Caccone¹
¹*Yale University, New Haven, CT, United States*, ²*National Livestock Health Research Institute, Tororo, Uganda***54****THE PHLEBOTOMINE SAND FLY FAUNA (DIPTERA: SYCHODIDAE) OF SIX *LEISHMANIA*-ENDEMIC SITES IN KABUL CITY, AFGHANISTAN**Hanafi A. Hanafi¹, Toby Leslie¹, Shabaan S. El-Hossary¹, Abdul Ali Ahmadi², Noorulhaleim Z. Safi², Najibullah Safi², Barry D. Furman¹
¹*U.S. Naval Medical Research Unit No. 3, Cairo, Egypt*, ²*National Malaria and Leishmaniasis Control Program, Ministry of Public Health, Kabul, Afghanistan***55****IMMUNITY IN *LUTZOMYIA LONGIPALPIS*: PUTATIVE GENES AND IDENTIFICATION OF A NONSPECIFIC ANTIVIRAL RESPONSE**Andre N. Pitaluga¹, Antonio J. Tempone¹, Juliana M. Dutra¹, Peter W. Mason², Yara M. Traub-Csekö¹
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Michael Parker¹, Donald Fine², Pamela Glass³, Sara Terpening⁴, Rayburn Mallory³, Sarah Helber⁵
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¹Tribhuvan University, Institute of Medicine, Kathmandu, Nepal, ²Southern Illinois University, School of Medicine, Springfield, IL, United States

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¹Federal University of Technology, Owerri, Nigeria, ²Imo State University, Owerri, Nigeria, ³Federal Medical Center, Owerri, Nigeria

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Jean-François Faucher¹, Pascal Houzé², Jennifer Wong², Bernard Gourmel², Valérie Lameyre³, Philippe Deloron⁴
¹IRD, Cotonou, Benin, ²Saint-Louis Hospital Biochemistry Laboratory, Paris, France, ³Sanofi, Gentilly, France, ⁴IRD, Paris, France

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¹All India Institute of Medical Sciences, New Delhi, India, ²Baystate Medical Center, Springfield, MA, United States, ³Jacobi Medical Center, Bronx, NY, United States

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¹University of Benin School of Medicine, Benin City, Edo State, Nigeria, ²University of Benin Teaching Hospital, Benin City, Edo State, Nigeria

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Joshua D. Hartzell¹, Todd Gleeson², Chris Ockenhouse³, Glenn Wortmann¹

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Rishi P. Mediratta¹, R. Bradley Sack²

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Ace Bryan S. Cabal¹, James K. Roche², Jesus Emmanuel A. Sevilleja¹, James P. Nataro³, Richard L. Guerrant²

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Narain Punjabi¹, Magdrina Agtini², Erlin Listyaningsih¹, Matthew Kasper¹, Shannon Putnam¹

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PARASITIC CO-INFECTION WITH GIARDIA INTESTINALIS AND CYCLOSPORA CAYETANENSIS AMONG CHILDREN IN PERU

Jennifer M. Ross¹, Kevin L. Winthrop¹, Dongseok Choi¹, Robert H. Gilman², Ynes Ortega³, Lilia Cabrera⁴, Lihua H. Xiao⁵, Vitaliano A. Cama⁵
¹*Oregon Health and Science University, Portland, OR, United States*, ²*Bloomberg School of Public Health, Johns Hopkins University, Baltimore, MD, United States*, ³*Center for Food Safety, University of Georgia, Griffin, GA, United States*,
⁴*Asociacion Benefica PRISMA, Lima, Peru*, ⁵*Centers for Disease Control and Prevention, Atlanta, GA, United States*

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DEVELOPMENT OF 18S-BASED IDENTIFICATION OF ENTAMOEBA SPP. IN STOOL SAMPLES

Helena dos Santos¹, Kakali Bandyopadhyay², Rebecca Bandeda², Regina H. Peralta¹, Jose M. Peralta¹, Mackevin Ndubuisi³, Cindy Daniell³, Lauren DiMiceli³, Mahin Park³, Alexandre J. da Silva⁴
¹*Federal University of Rio de Janeiro, Rio de Janeiro, Brazil*,
²*Centers for Disease Control and Prevention, Division of Parasitic Diseases, NCZVED and Atlanta Research and Education Foundation, Atlanta, GA, United States*, ³*Georgia Department of Health, Atlanta, GA, United States*, ⁴*Centers for Disease Control and Prevention, Division of Parasitic Diseases, NCZVED, Atlanta, GA, United States*

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PREVALENCE OF ASYMPTOMATIC ENTAMOEBA HISTOLYTICA INFECTION AND INTESTINAL ANTI-LECTIN IGA ANTIBODIES IN SOUTHERN INDIA

Meghan K. Rothenberger¹, Prabha Adhikari², William Stauffer¹, Rajeev Arvindakshan², Mohamed Abd-dalla¹, Ye-Ying Cen¹, Jonathan Ravdin¹
¹*University of Minnesota, St. Paul, MN, United States*, ²*Kasturba Medical College, Mangalore, India*

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TARGETING THE PROCESS OF ATTACHMENT IN GIARDIA LAMBLIA PATHOGENESIS

Colleen D. Walls, Heidi G. Elmendorf
Georgetown University, Washington, DC, United States

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USE OF PRINCIPAL COMPONENT ANALYSIS TO EVALUATE WEALTH AND ITS ASSOCIATIONS WITH ENTERIC PARASITIC INFECTIONS IN A LOW-INCOME COMMUNITY

Vitaliano A. Cama¹, Shantanu Nundy², Lilia Cabrera³, Rosa Cama³, Robert H. Gilman², Lihua Xiao⁴

¹Centers for Disease Control and Prevention-Atlanta Research and Education Foundation, Atlanta, GA, United States, ²Johns Hopkins University, Baltimore, MD, United States, ³A. B. Prisma, Lima, Peru, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

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SEROPREVALENCE OF *TOXOPLASMA GONDII* IN GOATS FROM SOUTHWESTERN MISSISSIPPI

Jamela S. Alexander, Alex D. Acholonu
Alcorn State University, Alcorn State, MS, United States

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COMPARISON OF MOLECULAR MARKERS FOR THE DETECTION OF VIABLE/INFECTIOUS PROZOAN PARASITES USING MOLECULAR AND CELLULAR ASSAYS

Absar Alum¹, **M. Khalid Ijaz**²

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IBP45: A UNIQUE HOMOLOGUE OF INITIATOR BINDING PROTEIN (IBP39) IN PRIMITIVE PROTOZOAN PARASITE *TRICHOMONAS VAGINALIS*

Shweta Srivastava, Patricia J. Johnson
Department of Microbiology Immunology and Molecular Genetics, University of California Los Angeles, Los Angeles, CA, United States

(ACMCIP Abstract)

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ANTI-PARASITIC ACTIVITIES OF THIAZOLIDES AND POTENTIAL DRUG TARGETS IN *NEOSPORA CANINUM* AND HOST CELLS

Andrew Hemphill, Joachim Müller
University of Berne, Berne, Switzerland

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EVALUATION OF STOOL FIXATIVES FOR MORPHOLOGIC AND MOLECULAR DIAGNOSIS OF CRYPTOSPORIDIOSIS

Stephanie P. Johnston, Yvonne Qvarnstrom, Michael Arrowood, Henry S. Bishop, Alexandre J. da Silva
Centers for Disease Control and Prevention, Division of Parasitic Diseases, NCZVED, Atlanta, GA, United States

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INTRANASAL ADMINISTRATION OF A SALMONELLA-BASED VACCINE EXPRESSING CP15 ANTIGEN CONFERS PROTECTION IN NEONATAL MICE CHALLENGED WITH *CRYPTOSPORIDIUM PARVUM*

Ace Bryan S. Cabal¹, Patricio A. Manque², Ana M. Lara², Ute Woehlbier², James K. Roche³, Jesus Emmanuel A. Sevilleja¹, Andrea Rivers-Davis³, Gregory A. Buck², Richard L. Guerrant³
¹Enteric Diseases Study Group, National Institutes of Health, University of the Philippines-Manila, Manila, Philippines, ²Department of Microbiology and Immunology, Virginia Commonwealth University, Richmond, VA, United States, ³Center for Global Health, Division of Infectious Disease and International Health, Department of Medicine, University of Virginia, Charlottesville, VA, United States

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SIMULTANEOUS DETECTION OF *ENTAMOEBIA HISTOLYTICA*, *CRYPTOSPORIDIUM PARVUM* AND *GIARDIA LAMBLIA* IN FECAL SAMPLES USING A SINGLE ENZYME IMMUNOASSAY

Cynthia Snider¹, Mamun Kabir², Joel Herbein³, Jan Hencke³, Rashidul Haque², William A. Petri Jr.¹
¹University of Virginia, Charlottesville, VA, United States, ²International Centre for Diarrheal Disease Research-Bangladesh, Dhaka, Bangladesh, ³TechLab, Inc., Blacksburg, VA, United States

Trematodes – Other

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CASPASE 9, A SIGNALING PROTEIN OF THE HUMAN LIVER FLUKE, *OPISTHORCHIS VIVERRINI*

Sandi K. Parriott¹, Thewarach Laha², Banchob Sripa³, Alex Loukas⁴, Paul J. Brindley¹
¹Department of Microbiology, Immunology and Tropical Medicine, The George Washington University, Washington, DC, United States, ²Department of Parasitology, Khon Kaen University, Khon Kaen, Thailand, ³The Department of Pathology, Khon Kaen University, Khon Kaen, Thailand, ⁴Division of Infectious Diseases and Immunology, Queensland Institute of Medical Research, Brisbane, Queensland, Australia

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TEMPERATURE-INDUCED GENE EXPRESSION OF *CLONORCHIS SINENSIS* NEWLY EXCYSTED JUVENILE IN ADAPTATION TO MAMMALIAN HOST

Won Gi Yoo¹, Tae Im Kim¹, Shunyu Li¹, Pyo Yun Cho², Tong-Soo Kim³, Sung-Jong Hong¹
¹Chung-Ang University, Seoul, Republic of Korea, ²Centers for Disease Control and Prevention, Seoul, Republic of Korea, ³In-Ha University, In-Cheon, Republic of Korea

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CHOLIC ACID AND DOPAMINE NEURONS DRIVE BILE-CHEMOTAXIS OF *CLONORCHIS SINENSIS* NEWLY EXCYSTED JUVENILE**Shunyu Li**¹, Tae Im Kim¹, Won Gi Yoo¹, Pyo Yun Cho², Tong-Soo Kim³, Sung-Jong Hong¹¹Chung-Ang, Seoul, Republic of Korea, ²Centers for Disease Control and Prevention, Seoul, Republic of Korea, ³In-Ha University, In-Cheon, Republic of Korea**(ACMCIP Abstract)****Trematodes – Schistosomiasis**

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PROPHYLACTIC EFFECT OF ARTESUNATE WITH/WITHOUT ANTIOXIDANTS ON JUVENILE AND ADULT EGYPTIAN STRAIN OF *SCHISTOSOMA MANSONI* IN MICE**Sayed H. Seif el-Din**

Theodor Bilharz Research Institute (TBRI), Giza, Egypt

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EVALUATION OF SURFACE ANTIGENS OF *SCHISTOSOMA MANSONI* AS VACCINE CANDIDATES**Jayendra Prasad**, Erica Waite, Shifan Liu, Ronald E. Blanton, Christopher L. King

Case Western Reserve University, Cleveland, OH, United States

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HEALTH TECHNOLOGY ASSESSMENT OF *SCHISTOSOMA MEKONGI* CONTROL PROGRAM, CAMBODIA**Dysoley Lek**

National Center for Parasitology, Entomology and Malaria Program, Phnom Penh, Cambodia

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HIGH GENETIC DIVERSITY IN *SCHISTOSOMA MANSONI* IN THE SENEGAL RIVER BASIN, A POPULATION GENETIC ANALYSIS 20 YEARS AFTER THE EPIDEMIC OUTBREAK**Tine Huyse**¹, Gregory E. Maes², Sarah Geldof², Kim Vereecken¹, Djibril Djibril¹, David Rollinson³, Bonnie L. Webster³, Katja Polman¹¹Institute of Tropical Medicine, Antwerp, Belgium, ²Katholieke Universiteit Leuven, Leuven, Belgium, ³The Natural History Museum, London, United Kingdom

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MECHANISM OF ANEMIA IN *SCHISTOSOMA MANSONI*-INFECTED SCHOOL CHILDREN IN WESTERN KENYA**Sara E. Butler**¹, Erick M. Muok², Susan P. Montgomery¹, Pauline M. Mwinzi², Diana M. Karanja², W. Evan Secor¹¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Kenya Medical Research Institute, Kisumu, Kenya

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POSSIBLE PRESENCE OF THREE PROMINENT IMMUNE SIGNALING PATHWAYS, IMD/RELISH, TOLL/DORSAL AND JAK/STAT, IN THE SNAIL *BIOMPHALARIA GLABRATA*, THE INTERMEDIATE HOST OF *SCHISTOSOMA MANSONI***Si-Ming Zhang**, Vijay Ramakrishnan, Hong Nian University of New Mexico, Albuquerque, NM, United States**(ACMCIP Abstract)**

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COMMUNITY-DIRECTED INTERVENTION FOR SCHISTOSOMIASIS AND SOIL TRANSMITTED HELMINTHES IN WESTERN KENYA**Pauline N. Mwinzi**¹, Mariam Mwanje², Chrispin Owaga¹, Erick Muok¹, Kayla Laserson³, Adazu Kubaje³, Susan Montgomery⁴, W. Evan Secor⁴, Erick Muchiri², Diana MS Karanja¹¹Kenya Medical Research Institute, Center for Global Health Research, Kisumu, Kenya, ²Division of Vector Borne Diseases, Kenya Ministry of Health, Nairobi, Kenya, ³KEMRI-Centers for Disease Control and Prevention, Kenya Medical Research Institute, Center for Global Health Research, Kisumu, Kenya, ⁴Centers for Disease Control and Prevention, Division of Parasitic Diseases, Atlanta, GA, United States

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CIRCULATING CYTOKINES, THEIR SOLUBLE RECEPTORS AND HUMAN RESPONSES TO PRAZIQUANTAL TREATMENT OF SCHISTOSOMIASIS**Jenny Houghton**¹, Colin M. Fitzsimmons¹, Narcis B. Kwatereine², Gachuhi Kimani³, Eric Muchiri⁴, Joseph K. Mwatha³, Claus M. Reimert⁵, Edridah M. Tukahebwa², Birgitte J. Vennervald⁵, David W. Dunne¹¹Department of Pathology, Cambridge University, Cambridge, United Kingdom, ²Vector Control Division, Ministry of Health, Kampala, Uganda, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴Division of Vector Borne Diseases, Kenyan Ministry of Health, Nairobi, Kenya, ⁵DBL – Centre for Health Research and Development, Copenhagen, Denmark**(ACMCIP Abstract)**

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TRANSPOSITION EXCISION ACTIVITIES OF THE PIGGYBAC AND MOS-1 MARINER TRANSPOSONS IN *SCHISTOSOMA MANSONI***Yousef N. Alrefaei**¹, Maria Morales², Paul J. Brindley¹¹The George Washington University, Washington, DC, United States, ²Tulane University, New Orleans, LA, United States**(ACMCIP Abstract)**

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A PRINCIPAL COMPONENTS ANALYSIS OF IMMUNE PARAMETERS ASSOCIATED WITH RESISTANCE TO REINFECTION WITH *SCHISTOSOMA MANSONI***Carla L. Black**¹, Pauline N. Mwinzi², W. Evan Secor³, Diana M. Karanja², Daniel G. Colley¹¹University of Georgia, Athens, GA, United States, ²Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, ³Centers for Disease Control and Prevention, Atlanta, GA, United States**(ACMCIP Abstract)**

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CHARACTERIZATION OF HUMORAL AND CD4⁺T CELL RESPONSES TO SMCB1 IN SCHISTOSOMIASIS PATIENTS RESIDING IN ENDEMIC AREAS IN BRAZIL

Lucia A. O. Fraga¹, Erika Lamb², Elizabeth C. Moreno³, Luiz Cosme C. Malaquias⁴, Alda Maria S. Silveira⁵, Jan Dvorak⁶, Conor R. Caffrey⁷, Stephen J. Davies⁸

¹Uniformed Services University of the Health Sciences/UNIVALE/DRS, Bethesda, MD, United States, ²Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ³Funasa-Fundação Nacional de Saúde-MS-Brasil, Belo Horizonte, Brazil, ⁴UNIVALE-Universidade Vale do Rio Doce, Gov. Valadares, MG., Brazil, ⁵UNIVALE-Universidade Vale do Rio Doce, Gov. Valadares, MG., Brazil, ⁶Sandler Center for Basic Research in Parasitic Diseases, California Institute for Quantitative Biosciences (QB3), University of California, San Francisco, CA, United States, ⁷Sandler Center for Basic Research in Parasitic Diseases, California Institute for Quantitative Biosciences (QB3), University of California, San Francisco, CA, United States, ⁸Department of Microbiology and Immunology, Uniformed Services University of the Health Sciences, Bethesda, MD, United States

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URINARY SCHISTOSOMIASIS SCOURGE AMONG RURAL SCHOOL CHILDREN IN CHITONGO AREA, SOUTHERN ZAMBIA

Sandra Chishimba¹, Aniset Kamanga¹, Jay Sikalima¹, Julie Clennon², Sungano Mharakurwa¹, Clive J. Shiff²

¹The Malaria Institute at Macha, Choma, Zambia, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

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FEASIBILITY OF SCHISTOSOMIASIS MANSONI ENDEMIC EVALUATION USING EITHER SERODIAGNOSTIC OF MOLECULAR DETECTION METHODS IN BURKINA FASO

Hermann Sorgho, Ollo U. Da, Jean-Bosco Ouédraogo
Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso

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A CLOSER LOOK AT THE PROTEINS INVOLVED IN SEROTONIN SIGNALING IN SCHISTOSOMA MANSONI AND HOW THEY MODULATE BEHAVIOR

Nicholas Patocka, Paula Ribeiro
McGill University, Ste-anne-de-bellevue, QC, Canada

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IMPLICATIONS OF THE EFFECT OF SCHISTOSOMA MANSONI AND SCHISTOSOMA HAEMATOBIIUM CO-INFECTIONS ON HUMAN MORBIDITY INDICATORS

Anouk N. Gouvras¹, Alice J. Norton¹, Curtis H. Kariuki², Alan Fenwick¹, Joanne P. Webster¹

¹Imperial College London, London, United Kingdom, ²National Museums Kenya, Kenya, Kenya

Viruses – Other

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YIELD OF THREE WILD BIRD STOOL COLLECTION METHODS FOR AVIAN INFLUENZA SURVEILLANCE

Catalina Hoyos¹, Bruno M. Ghersi², Rodrigo Iglesias², Elliot Stieglitz¹, Hugo R. Razuri³, Armando E. Gonzales², Andres G. Lescano³, Joel M. Montgomery³

¹Stony Brook University School of Medicine, Stony Brook, NY, United States, ²Universidad Nacional Mayor de San Marcos, School of Veterinary Medicine, Lima, Peru, ³U.S. Naval Medical Research Center Detachment, Lima, Peru

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FIELD DETECTION OF EBOLA- AND MARBURG VIRUSES BY A PCR-BASED LATERAL FLOW DIPSTICK ASSAY

Roman Wölfel¹, Markus Panning², Gerhard Dobler¹

¹Bundeswehr Institute of Microbiology, Munich, Germany, ²Bernhard-Nocht Institute for Tropical Medicine, Hamburg, Germany

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VIRULENCE VARIATION AMONG ISOLATES OF WESTERN EQUINE ENCEPHALITIS VIRUS IN AN OUTBRED MOUSE MODEL

Christopher H. Logue

Centres for Disease Control and Prevention & Colorado State University, Fort Collins, CO, United States

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RABIES IN BATS IN TWO COMMUNITIES IN PERU AFTER AN OUTBREAK IN 2007

Gabriela Salmon-Mulanovich¹, Christian Albújar¹, Carolina Guevara¹, Alicia Vasquez², Alberto Laguna¹, Milagros Salazar³, Hernán Zamalloa¹, Marcia Cáceres⁴, Tadeusz Kochel¹, Carlos Contreras⁴, Felix R. Jackson⁵, Charles E. Rupprecht⁵, Joel M. Montgomery¹

¹Naval Medical Research Center Detachment, Lima, Peru, ²Museo de Historia Natural, Universidad Nacional Mayor de San Marcos, Lima, Peru, ³University of Texas Medical Branch, Galveston, TX, United States, ⁴Dirección de Salud, Madre de Dios, Peru, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States

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CORTICOSTEROIDS MODULATE SEOLU VIRUS INFECTION, REGULATORY T CELL RESPONSES, AND MMP-9 EXPRESSION IN MALE, BUT NOT FEMALE, NORWAY RATS

Judith D. Easterbrook, **Sabra L. Klein**

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



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DETECTION OF VIRAL RNA FROM PARAFFIN-EMBEDDED TISSUES AFTER PROLONGED FORMALIN FIXATION

Randal J. Schoepp¹, Michelle D. McKinney², Steven J. Moon¹, David A. Kulesh¹, Thomas Larsen¹

¹U.S. Army Medical Research Institute for Infectious Diseases, Frederick, MD, United States, ²GEO-CENTERS, Inc., Frederick, MD, United States

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FULL LENGTH SEQUENCING AND GENETIC CHARACTERIZATION OF BREU BRANCO VIRUS (BE AR 494347) AND STRAINS BE AR 494475 AND BE AR 486204 ISOLATED FROM ANOPHELES MOSQUITOES

Conceição M. Vieira¹, Márcio R. Nunes², Eliana V. da Silva², Valéria L. Carvalho², Joaquim P. Nunes Neto², Helena B. Vasconcelos², Ana C. Cruz², Samir M. Casseb², **Pedro F. Vasconcelos**²

¹Universidade Federal Rural da Amazônia, Belém, Brazil, ²Instituto Evandro Chagas, Belém, Brazil

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SEROPREVALENCE RATES OF MAYARO VIRUS IN URBAN AND RURAL AREAS OF MAYNAS PROVINCE, PERU

Kanya C. Long¹, Amy C. Morrison², Brett M. Forshey³, Alfredo Huaman³, Claudio Rocha³, Rebeca Carrion³, Cristian Carey⁴, Joel M. Montgomery⁵, Robert B. Tesh¹, Tad Kochel³

¹University of Texas Medical Branch, Galveston, TX, United States, ²University of California, Davis, Davis, CA, United States, ³Naval Medical Research Center Detachment, Lima, Peru, ⁴Dirección Ejecutiva de Epidemiología de Salud de Loreto, Iquitos, Peru, ⁵US Centers for Disease Control, Atlanta, GA, United States

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SINDBIS ALPHAVIRUS INFECTION: CLINICAL FEATURES, DIAGNOSIS AND EPIDEMIOLOGY

Satu Kurkela¹, Tapani Helve², Osmo Rätti³, Tytti Manni¹, Eili Huhtamo¹, Nathalie Yumari Uzcátegui¹, Johanna Myllynen⁴, Juha Laakkonen⁵, Juha Pekka Nuorti⁶, Antti Vaheri¹, Olli Vapalahti¹

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NORTH AND SOUTH AMERICAN EASTERN EQUINE ENCEPHALITIS VIRUS INFECTION OF HISPID COTTON RATS

Nicole C. Arrigo, Patrick C. Newman, A. Paige Adams, Douglas M. Watts, Scott C. Weaver
University of Texas Medical Branch, Galveston, TX, United States

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TRANSMISSION OF NIPAH BY DATE PALM SAP, BANGLADESH 2008

Muhammad Aziz Rahman¹, M. Jahangir Hossain², Sharmin Sultana³, Shahed Sazzad², Nusrat Homaira¹, Sayma Afroze³, Mahmudur Rahman³, Emily Gurley², Stephen P. Luby⁴

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EVALUATION OF RISK FOR AVIAN INFLUENZA INTRODUCTION USING GIS IN WETLANDS IN PERU

Hugo R. Razuri¹, Bruno M. Ghersi¹, Veronica Landa², Gabriela Salmon-Mulanovich¹, Jorge Pastor², Raul Zegarra², David L. Blazes¹, Joel Montgomery¹, Andres G. Lescano¹

¹Naval Medical Research Center Detachment, Lima, Peru, ²National Animal and Plant Health Service, Ministry of Agriculture, Lima, Peru

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DICISTRONIC EXPRESSION OF MULTIPLE FLUORESCENT PROTEINS FROM A DOUBLE SUBGENOMIC ALPHAVIRUS

Michael R. Wiley¹, Lisa O. Roberts², Zach N. Adelman¹, Kevin M. Myles¹

¹Virginia Tech, Blacksburg, VA, United States, ²School of Biomedical and Life Sciences, University of Surrey, Guildford, United Kingdom

Poster Session A ACMCIP Abstracts –

Molecular, Cellular and Immunoparasitology

107, 142, 159, 160, 161, 164, 165, 166, 180, 194, 196, 197, 215, 221, 222, 223, 225, 226, 228, 229, 230, 258, 267, 275, 284, 285, 290, 291, 292, 294, 298, 300, 301, 302, 303, 307

Burroughs Wellcome Fund/ASTMH Fellowship Committee Meeting

Salon 828

Monday, December 8, Noon – 2 p.m.

Clinical Group Education Curriculum Meeting

Salon 816

Monday, December 8, 12:15 p.m. – 1:15 p.m.

Exam Executive Committee Meeting

Salon 829

Monday, December 8, 12:15 p.m. – 1:15 p.m.

Monday, December 8

Mid-Day Session 27

Grad School or Peace Corps... Why Not Do Both?

Waterbury

Monday, December 8, 12:15 p.m. – 1:15 p.m.

The Peace Corps strives to help meet the world's demand for skilled volunteers in public health. Through its Master's International (MI) program, graduate students serve others overseas while earning their master's degree. Partner universities benefit as well by further internationalizing both particular schools and their campuses. A Peace Corps volunteer in public health may serve in a healthcare system either as a regional health educator for a government ministry of health, or as a community health or nutrition promoter working out of a rural dispensary or clinic. Collaborating with host country counterparts on education, awareness and other relevant projects, Master's International Peace Corps Volunteers encourage community members to adopt behaviors that promote health, prevent illness, treat disease and facilitate rehabilitation. The Master's International program provides an opportunity for these educators to pursue a master's degree that includes credit for Peace Corps service. It also benefits partner colleges and universities by further internationalizing campuses, as well as attracting focused and committed graduate students. The discussion will be facilitated by the coordinator of the Master's International program at Tulane University. Panelists include university representatives who coordinate the MI program on their campuses, as well as former MI students who have served overseas.

CHAIR

Eric Goldman
Peace Corps, Washington, DC, United States

Steve Bennett
Tulane University, New Orleans, LA, United States

SPEAKER

Steve Bennett
Tulane University, New Orleans, LA, United States

Mid-Day Session 27A

Video on Human African Trypanosomiasis: "Survival - The Deadliest Disease"

Bayside BC

Monday, December 8, 12:15 p.m. - 1:15 p.m.

Sleeping Sickness is the deadliest disease in the world. The Democratic Republic of Congo suffers more cases than almost any other country. Without treatment, parasites called trypanosomes invade the victim's brain, ravage their sleep cycle, driving them mad before finally killing them. But dedicated doctors and medics are fighting back. They travel throughout this war-torn and poverty-stricken country, seeking out the victims of Sleeping Sickness and treating them before it's too late. But their tools are limited. The most used drug, Melasoprol, kills one in twenty patients. Without new, safer drugs, this terrible disease may never be defeated.

CHAIR

Ann-Marie Sevcsik
Drugs for Neglected Diseases initiative, Geneva, Switzerland

Meet the Professors 28

Meet the Professors A: Enigmatic and Teaching Cases

Grand Ballroom A

Monday, December 8, 12:15 p.m. – 1:15 p.m.

A panel of professors will each present one clinical case of a tropical disease specific to a particular region that they have found a challenge to manage or diagnose. If there is time, participants may be able to present enigmatic cases for the audience and panel to consider. An open discussion will be encouraged, with audience participation.

CHAIR

Anne McCarthy
Ottawa Hospital, Ottawa, ON, Canada

PRESENTERS

Christina M. Coyle
Albert Einstein College of Medicine, Bronx, NY, United States

Eric R. Houpt
University of Virginia, Charlottesville, VA, United States

Mid-Day Session 29

Malaria Eradication: Calibrating Aspirations, Technology, and Commitment

Grand Ballroom C

Monday, December 8, 12:15 p.m. – 1:15 p.m.

In 2007 there was global call for a long-term course toward the eradication of malaria. The use of the term "malaria eradication" will remind many of the previous declaration of global malaria eradication in the mid-1950s and the outcomes of that – "failure" or "partial success," depending on to whom you talk. We need to understand what we are doing now for malaria control as a base for what progress and timeframe is realistic in the future. Questions about eradication of malaria as a long-term goal have included: Should eradication be undertaken at all, or will it be too costly? Is eradication feasible with today's tools and if not, what innovations will be needed? The symposium will provide a focused yet comprehensive overview of the critical technical, epidemiologic and programmatic issues critical to near-term control and the eventual eradication of malaria. The objective of the symposium is to increase international scholarly exchange focused on malaria control, elimination and eradication, and the importance of a coordinated strategic approach.

CHAIR

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

12:15 P.M.

OVERVIEW

Richard Feachem
The Global Health Group, San Francisco, CA, United States

12:20 p.m.

PERSPECTIVES ON MALARIA ERADICATION

Randall M. Packard
Institute of the History of Medicine, Baltimore, MD, United States



ASTMH 57th Annual Meeting

www.astmh.org

12:25 p.m.

MALARIA CONTROL OVERVIEW 2000-2008

Bernard Nahlen
President's Malaria Initiative, Washington, DC, United States

12:35 p.m.

MALARIA CONTROL-ELIMINATION-ERADICATION – COUNTRY PERSPECTIVE: ZANZIBAR

Abdullah Ali
Zanzibar Malaria Control Program, Zanzibar, United Republic of Tanzania.

12:45 p.m.

PROGRESS TOWARD MALARIA PROGRAM IMPACT AND ELIMINATION

Richard W. Steketee
PATH, Seattle, WA, United States

1 p.m.

A GLOBAL MALARIA ACTION PLAN

David Brandling-Bennett
Bill & Melinda Gates Foundation, Seattle, WA, United States

Pedro Alonso
Centro de Investigacao em saude de Manhica (CISM), Barcelona, Spain

Mid-Day Session 30

The Cochrane Infectious Diseases Group: Systematic Reviews in Tropical Diseases

Grand Ballroom D

Monday, December 8, 12:15 p.m. – 1:15 p.m.

The Cochrane Collaboration Infectious Diseases Group (CIDG) has been producing and updating systematic reviews in tropical diseases since 1992. As of 2008, more than 125 CIDG reviews are available in the Cochrane Database of Systematic Reviews. Most reviews have been done by the 228 academic or clinical specialists in disease areas from 43 countries, with technical support from the CIDG base at the Liverpool School of Tropical Medicine and seven international editors. The symposium will introduce CIDG, including the scope of reviews it undertakes, how it is supported and its influence on research and policy. The diseases covered by the CIDG include most major infectious diseases of the developing world with a strong focus on malaria and TB, as well as the neglected tropical diseases (HIV/AIDS, acute respiratory infections and trachoma are covered by other Cochrane groups). Speakers will underscore opportunities to become involved as review authors, referees or editors.

CHAIR

Paul Garner
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

12:15 p.m.

THE COCHRANE INFECTIOUS DISEASES GROUP (CIDG): WHAT IT IS, HOW IT WORKS, AND OPPORTUNITIES FOR INVOLVEMENT

Paul Garner
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

12:30 p.m.

CIDG IN AFRICA: TOPICAL REVIEWS AND AUTHORS

Martin Meremikwu
University of Calabar, Calabar, Nigeria

12:45 p.m.

CIDG REVIEWS IN MALARIA: WHAT WE KNOW FROM SYSTEMATIC REVIEWS, POLICY AND RESEARCH IMPLICATIONS

Piero Olliaro
World Health Organization, Geneva, Switzerland

1 p.m.

CIDG REVIEWS IN DIARRHEA: PAVING THE WAY FOR POLICY WITH RELIABLE SYNTHESSES

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

Poster Session A Viewing

Armstrong Ballroom

Monday, December 8, 1:30 p.m. – 7 p.m.

Scientific Session 31

Malaria – Immunology I

Gallery

Monday, December 8, 1:30 p.m. – 3:15 p.m.

CHAIR

Peter Crompton
National Institutes of Health, Rockville, MD, United States
Franck Remoue
Institut de Recherche Pour Le Developpment, Epidem, Montpellier, France

1:30 p.m.

322

MALARIA POTENTIATES EXPERIMENTAL MYCOBACTERIAL INFECTION *IN VITRO* AND *IN VIVO*

Michael Hawkes, Xiaoming Li, Maryanne Crockett, Angelina Diassiti, W. Conrad Liles, Jun Liu, Kevin Kain
University of Toronto, Toronto, ON, Canada
(ACMCIP Abstract)

Monday, December 8

1:45 p.m.

323

IMPACT OF HIV-1 ON HUMORAL IMMUNITY TO *PLASMODIUM FALCIPARUM* MALARIA IN NON-PREGNANT ADULTS WITH UNCOMPLICATED MALARIA IN ZAMBIA

Erica Van Eijk¹, **Jean-Pierre Van geertruyden**², Francisca Yosaatmadja³, Webster Kasongo⁴, Modest Mulenga⁴, Umberto D'Alessandro², Stephen Rogerson³
¹Vrije Universiteit Amsterdam, Amsterdam, Netherlands, ²Prince Leopold Instituut voor tropische geneeskunde, Antwerpen, Belgium, ³Melbourne University, Melbourne, Australia, ⁴Tropical Disease Research Centre, Ndola, Zambia

(ACMCIP Abstract)

2 p.m.

324

CHILD MALNUTRITION AT THE ONSET OF MALARIA TRANSMISSION: IMPACT ON SUBSEQUENT MALARIA MORBIDITY AND ANTI-*PLASMODIUM FALCIPARUM* ANTIBODY RESPONSE

Florie Fillil¹, Jean Birame Sarr², Franck Remoue³, Denis Boulanger¹, Badara Cisse⁴, Cheikh Sokhna³, Geoffrey Targett⁵, Jean-François Trape³, François Simondon¹, Brian Greenwood⁵, Kirsten Simondon¹
¹Institut de Recherche pour le Développement (IRD), Montpellier, France, ²Association Espoir Pour la Santé (EPLS), Saint-Louis, Senegal, ³Institut de Recherche pour le Développement (IRD), Dakar, Senegal, ⁴Université Cheikh Anta Diop (UCAD), Laboratory of Parasitology, Dakar, Senegal, ⁵London School of Hygiene and Tropical Medicine, London, United Kingdom

2:15 p.m.

325

A LONGITUDINAL STUDY OF THE ACQUISITION AND MAINTENANCE OF *PLASMODIUM FALCIPARUM*-SPECIFIC MEMORY B CELLS

Greta Weiss¹, Boubacar Traore², Safiatou Doumbo², Didier Doumtabe², Younoussou Kone², Marko Mircetic¹, Aissata Ongoiba², Kassoum Kayentao², Ogobara K. Doumbo², Susan K. Pierce¹, Peter D. Crompton¹
¹National Institutes of Health, National Institute of Allergy and Infectious Diseases, Laboratory of Immunogenetics, Bethesda, MD, United States, ²Malaria Research and Training Center, Faculty of Medicine, Pharmacy and Dentistry, University of Bamako, Bamako, Mali

(ACMCIP Abstract)

2:30 p.m.

326

IMMUNITY TO *PLASMODIUM FALCIPARUM* MEASURED BY GROWTH INHIBITION ASSAY DECREASES WITH AGE AND IS ASSOCIATED WITH DELAYED TIME TO BLOOD STAGE INFECTION IN NATURALLY EXPOSED PERSONS

Arlene E. Dent¹, Elke Bergmann-Leitner², Danny Wilson³, Daniel Tisch¹, Rhonda Kimmel⁴, John Vulule⁵, Peter Sumba⁵, James Beeson³, Evelina Angov², Ann Moormann¹, James Kazura¹
¹Case Western Reserve University, Cleveland, OH, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³Walter and Eliza Hall Institute, Parkville, Australia, ⁴Case Western Reserve University, Cleveland, OH, United States, ⁵Kenya Medical Research Institute, Kisumu, Kenya

(ACMCIP Abstract)

2:45 p.m.

327

COMPARISON OF SEROLOGICAL PROFILES AND ANTIBODY AVIDITIES TO EIGHT MAJOR CANDIDATE VACCINE ANTIGENS IN THAI AND CAMEROON ADULTS

Alexander K. Kayatani¹, Mark M. Fukuda², Rose G. Leke³, Diane W. Taylor¹
¹University of Hawaii, Honolulu, HI, United States, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ³University of Yaounde I, Yaounde, Cameroon

3 p.m.

328

DIFFERENCES IN TRANSMISSION INTENSITIES OF *FALCIPARUM* MALARIA AFFECT THE FREQUENCY OF HUMAN COMPLEMENT RECEPTOR 1 (CR1) POLYMORPHISMS IN NORTH-EASTERN TANZANIA

Helle H. Hansson¹, Lasse S. Vestergaard², Martha M. Lemnge³, Bruno P. Mmbando³, Anders Enevold¹, Mette L. Schousboe¹, John P. Lusingu³, Thor G. Theander¹, Ib C. Bygbjerg⁴, Michael Alifrangis¹
¹Center for Medical Parasitology, University of Copenhagen and Rigshospitalet, Copenhagen, Denmark, ²Department of Infectious Diseases, Rigshospitalet, and Institute of International Health, Immunology and Microbiology, University of Copenhagen, Copenhagen, Denmark, ³National Institute for Medical Research, Tanga, United Republic of Tanzania, ⁴Institute for International Health, Immunology and Microbiology, University of Copenhagen and Rigshospitalet, Copenhagen, Denmark



Symposium 32

The Traveling Child: Medical Advice and Advances

Rhythms I

Monday, December 8, 1:30 p.m. – 3:15 p.m.

This symposium will address special considerations for the pediatric traveler in terms of pre-travel preparation and evaluation and management of post-travel illness. Content covered will include selected topics in pre-travel counseling, malaria prevention, updates in immunizations and medications and assessment of the ill child after travel to tropical areas. Illustrative case presentations will be included to emphasize key concepts.

CHAIR

Andrea P. Summer
Medical University of South Carolina, Charleston, SC, United States

Philip R. Fischer
Mayo Clinic, Rochester, MN, United States

1:30 p.m.

INFANTS, ALTITUDE AND AIR TRAVEL

Karl Neumann
Weill Cornell Medical College of Cornell University, Forest Hills, NY, United States

1:55 p.m.

PEDIATRIC VACCINE UPDATE

Sheila Mackell
Mountain View Pediatrics, Flagstaff, AZ, United States

2:20 p.m.

APPROACH TO THE ILL CHILD AFTER TRAVEL TO THE TROPICS

Andrea Summer
Medical University of South Carolina, Charleston, SC, United States

2:45 p.m.

CASE PRESENTATION IN PRE- AND POST-TRAVEL PATIENTS

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

Symposium 33

Building a Children's Clinical Centers of Excellence Network to Treat Pediatrics HIV/AIDS in Resource-Limited Settings

Rhythms III/III

Monday, December 8, 1:30 p.m. – 3:15 p.m.

Building and supporting clinical programs in resource-limited settings can be difficult. This symposium is a primer for individuals interested in starting, funding and maintaining such programs. Using the Baylor International Pediatric AIDS Initiative experience with the care and treatment of pediatric HIV/AIDS patients in Eastern Europe and Africa as a model, we will describe challenges and opportunities for the establishment of similar programs. The first session will help the participant understand the need for a preliminary business plan for the introduction of pediatric care and treatment in a selected community and how to identify resources from the public health and the private sector for supporting this endeavor. Addressing children's health care issues can be problematic in resource limited areas. Choosing the clinical services that will be provided, picking the appropriate clinical site and choosing community partners will be reviewed in the second session. The lack of human capacity is also a critical problem in many regions of the world and suggestions for addressing these issues will also be made from supplying expatriate physicians to training local health care providers in providing specialized care. The third session covers the importance of monitoring and evaluation of a program. This session will help the participant to understand how to develop a monitoring and evaluation plan, the implementation of this plan and how to use these data for program management and improvement in the future. Programs in resource limited areas can become isolated but by connecting multiple programs into a network their value can be increased. The final session of the symposium will demonstrate the power of such a network and how a strong working network can affect local, national and international policies.

CHAIR

Gordon E. Schutze
Baylor College of Medicine International Pediatric AIDS Initiative, Houston, TX, United States

Mark W. Kline
Baylor College of Medicine International Pediatric AIDS Initiative, Houston, TX, United States

1:30 p.m.

DEVELOPING, FUNDING, AND MAINTAINING PUBLIC-PRIVATE PARTNERSHIPS

Michael B. Mizwa
Baylor College of Medicine International Pediatric AIDS Initiative, Houston, TX, United States

1:55 p.m.

ADDRESSING CHILDREN'S HEALTH CARE ISSUES IN RESOURCE-LIMITED AREAS

Gordon E Schutze
Baylor College of Medicine International Pediatric AIDS Initiative, Houston, TX, United States

2:20 p.m.

THE MONITORING AND EVALUATION OF CLINICAL PROGRAMS IN RESOURCE-LIMITED SETTINGS

R. Sebastian Wanless
Baylor College of Medicine Pediatric International Pediatric AIDS Initiative, Houston, TX, United States

2:45 p.m.**THE POWER OF A NETWORK IN CHANGING HEALTH CARE FOR CHILDREN**

Mark W. Kline
Baylor College of Medicine International Pediatric AIDS Initiative, Houston, TX, United States

Symposium 34**Roles of Intestinal Microbiota in Mucosal Function***Waterbury***Monday, December 8, 1:30 p.m. – 3:15 p.m.**

Burgeoning information suggests that the commensal microbiota, which exceed by orders of magnitude our *Homo sapiens* genome, have profound influences on the development and maintenance of host immunity and resistance to infections. Our microbiota thus distinguish and help determine who we are (Gordon, Klein et al). Both innate and acquired host immune responses and mucosal growth, development and repair are substantially influenced by intestinal microbiota. Effects range from development of antigenic tolerance, immunologic counter-regulation and allergic disease to regulation of intestinal inflammation and mucosal barrier and absorptive function. Their importance in resistance to infection is clear from antibiotic associated complications. These topics will be addressed by pioneering investigators in this rapidly developing field.

CHAIR

Richard L. Guerrant
University of Virginia, Charlottesville, VA, United States

Chris Karp
Cincinnati Children's Hospital, Cincinnati, OH, United States

1:30 p.m.**IMPACT OF COMMENSAL MICROBIOTA ON MUCOSAL IMMUNITY AND INFLAMMATION**

Balfour Sartor
University of North Carolina, Department of Medicine, Chapel Hill, NC, United States

2:05 p.m.**IMMUNE COUNTERREGULATION, THE HYGIENE HYPOTHESIS AND ORAL TOLERANCE**

Christopher Karp
Cincinnati Children's Hospital, Cincinnati, OH, United States

2:40 p.m.**MECHANISMS TO PROTECT AGAINST INFLAMMATION AND BARRIER DISRUPTION**

D. Brent Polk
Vanderbilt University Medical Center, Nashville, TN, United States

Symposium 35**Johns Hopkins Malaria Research Institute Symposium: Pores, Channels and Transporters in Plasmodium***Napoleon A123***Monday, December 8, 1:30 p.m. – 3:15 p.m.**

The *Plasmodium* genome encodes over a hundred membrane proteins with putative functions of pores, channels and transporters. Many of these play a range of key physiological roles in the parasite, including the uptake of essential nutrients, the release of metabolic wastes, and ion homeostasis and signaling. Some of them are also known to play a role in the resistance to a number of anti-malarial drugs. Speakers in this symposium will provide an overview of the roles and characteristics of transporters and channels in the parasite.

CHAIR

Nirbhay Kumar
Johns Hopkins University, Baltimore, MD, United States

Peter Agre
Johns Hopkins University, Baltimore, MD, United States

1:30 p.m.**TRANSPORTERS AND CHANNELS OF THE MALARIA PARASITE**

Kieran Kirk
The Australian National University, Canberra, Australia

1:55 p.m.**AQUAGLYCEROPORIN IN PLASMODIUM**

Peter Agre
Johns Hopkins University, Baltimore, MD, United States

2:20 p.m.**A PURINE PERMEASE IN THE ENDOPLASMIC RETICULUM OF PLASMODIUM FALCIPARUM**

Choukri Ben Mamoun
University of Connecticut Health Center, Farmington, CT, United States

2:45 p.m.**K⁺ CHANNELS ENCODED BY PLASMODIUM PARASITES**

Peter Ellekvist
University of Copenhagen, Copenhagen, Denmark



Symposium 35A

Roll Back Malaria Monitoring and Evaluation Reference Group: Progress and New Initiatives to Improving M&E for Malaria Control Programs

Maurepas

Monday, December 8, 1:30 p.m. - 3:15 p.m.

The Roll Back Malaria Monitoring and Evaluation Reference Group (MERG) was established to standardize indicators, develop data collection tools, and provide M&E guidance for national malaria control programs. The MERG brings together experts on malaria M&E from national control programs, regional institutions, and the RBM Partner organizations. The MERG has developed standardized indicators and tools for measuring malaria program coverage such as the DHS and MICS malaria modules and the Malaria Indicator Survey (MIS). The group has also worked on approaches to estimating changes in mortality. Together, these efforts have substantially increased the availability of consistent, reliable data at the country level on progress towards malaria control. The MERG also actively supports capacity development efforts for national malaria control programs to organize and conduct M&E efforts tailored to their own activities. As the world moves towards elimination of malaria, the MERG will take a leading role in refining existing tools and filling the emerging gaps in M&E. The symposium will highlight the work of the Roll Back Malaria Monitoring and Evaluation Reference Group to standardize M&E efforts, improve the quality of the available data on malaria control, and build capacity in M&E within country programs.

CHAIR

Richard W. Steketee
*Malaria Control and Evaluation Partnership in Africa (MACEPA)/
PATH, Ferney, France*

Erin Eckert
Macro International, Calverton, MD, United States

1:30 p.m.

OVERVIEW

Bernard Nahlen
*President's Malaria Initiative, U.S. Agency for International
Development, Washington, DC, United States*

1:35 p.m.

CORE INDICATORS FOR MEASURING MALARIA COVERAGE AND IMPACT DURING PROGRAM SCALE-UP: GUIDANCE FROM THE RBM MERG

Emily White Johansson
UNICEF, New York, NY, United States

2:05 p.m.

MALARIA INDICATOR SURVEYS AND BUILDING LOCAL CAPACITY TO MEASURE PROGRESS

Erin Eckert
Macro International, Calverton, MD, United States

2:35 p.m.

M&E NEEDS IN THE MOVE TOWARDS ELIMINATION: WHAT ADAPTATIONS WILL MERG PARTNERS NEED TO DEVELOP TO MEET THE INTENSIFIED NEEDS IN M&E AS COUNTRIES MOVE TOWARDS ELIMINATION?

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

Richard W. Steketee
*Malaria Control and Evaluation Partnership in Africa (MACEPA)/
PATH, Ferney, France*

3:05 p.m.

DISCUSSION/SUMMARY

Symposium 36

Chemotherapeutic Strategies for Schistosomiasis

Bayside A

Monday, December 8, 1:30 p.m. – 3:15 p.m.

Schistosomiasis is a so-called neglected tropical disease, although almost 800 million people are at risk and more than 200 million individuals are infected. Individual treatment and community-based morbidity control relies on just one drug, namely praziquantel. The dependency on a single drug is an alarming situation, fueled by concern about the development and spread of resistance. Hence, alternative drugs are urgently needed. This symposium reviews some of the key advances in antischistosomal drug discovery now being undertaken by integrated public-private partnerships.

CHAIR

Jennifer Keiser
Swiss Tropical Institute, Basel, Switzerland

Jürg Utzinger
Swiss Tropical Institute, Basel, Switzerland

1:30 p.m.

THE HELMINTH DRUG INITIATIVE

Solomon Nwaka
World Health Organisation/TDR, Geneva, Switzerland

1:50 p.m.

METALOMOME AND KINOME APPROACHES FOR THE IDENTIFICATION OF DRUG TARGETS IN *SCHISTOSOMA MANSONI*

Guilherme Oliveira
Centro de Pesquisas Rene Rachou, Belo Horizonte, Brazil

2:10 p.m.

IDENTIFICATION OF NEW DRUG LEADS FOR THE CONTROL OF SCHISTOSOMIASIS

David L. Williams
Illinois State University, Normal, IL, United States

2:30 p.m.

DRUG DISCOVERY FOR SCHISTOSOMES: POTENTIAL GENE TARGETS AND SMALL MOLECULE LEADS

Conor R. Caffrey
Sandler Center, San Francisco, CA, United States

2:50 p.m.

NOVEL ANTISCHISTOSOMAL DRUGS: PIGGY BACKING FROM MALARIA DRUG DEVELOPMENT

Jennifer Keiser
Swiss Tropical Institute, Basel, Switzerland

Symposium 37

Update on the Control of Communicable and Tropical Diseases in Conflict-Affected Populations

Bayside BC

Monday, December 8, 1:30 p.m. – 3:15 p.m.

Conflict-affected, refugee or internally displaced populations, pose a challenge for control of communicable and tropical diseases. Population mobility, lack of adequate water and sanitation, breakdown of health care services, insufficient resources, tenuous security and inadequate shelter can result in increased levels of morbidity and mortality and threat of epidemics. Adequate disease control involves addressing basic human needs for food, water, shelter and sanitation, which requires coordination and communication among numerous humanitarian relief agencies. This symposium addresses current challenges in providing health care to populations affected by conflicts.

CHAIR

Holly A. Williams
Centers for Disease Control and Prevention, Atlanta, GA, United States

1:30 p.m.

IMPACT OF VIOLENCE ON A HEALTHCARE SYSTEM – CASE REPORT OF POST-ELECTION VIOLENCE IN KENYA, JANUARY – MARCH 2008

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

1:55 p.m.

ACCESS TO AND QUALITY OF WATER AND SANITATION SERVICES IN REFUGEE SETTINGS

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

2:20 p.m.

OPERATIONAL DEVELOPMENT OF HIS FOR REFUGEES: SCIENCE, SURVEILLANCE AND ACTION

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

2:45 p.m.

UNITED NATIONS HIGH COMMISSIONER FOR REFUGEES STRATEGIC PLAN FOR MALARIA CONTROL

Holly A. Williams
Centers for Disease Control and Prevention, Atlanta, GA, United States

Symposium 38

Disease Eradication with the Forgotten Diseases: The NTDs and Their Progress Towards the Finish Line

Grand Ballroom A

Monday, December 8, 1:30 p.m. – 3:15 p.m.

The eradication of smallpox was an unparalleled public health accomplishment. Since that time, there have been many other targets set for the next disease to be eradicated. Polio has been in center stage, but still faces several hurdles before the final goal is accomplished. Outside of the main fanfare are several of the neglected tropical diseases which have made slow but steady progress toward elimination and eradication goals. This symposium will look at the progress, challenges and future facing eradication of Guinea Worm, onchocerciasis, lymphatic filariasis and Human African Trypanosomiasis.

CHAIR

Julie Jacobson
Bill & Melinda Gates Foundation, Seattle, WA, United States

Donald R. Hopkins
The Carter Center, Atlanta, GA, United States

1:30 p.m.

INTRODUCTION

Julie Jacobson
Bill & Melinda Gates Foundation, Seattle, WA, United States

1:40 p.m.

INTRODUCTION

Donald R. Hopkins
Carter Center, Atlanta, GA, United States

1:55 p.m.

GUINEA WORM ERADICATION: THE FINAL CHALLENGE

Donald R. Hopkins
The Carter Center, Atlanta, GA, United States

2:15 p.m.

ONCHOCERCIASIS: PROGRESS FROM CONTROL TO ELIMINATION/ERADICATION

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

2:35 p.m.

LYMPHATIC FILARIASIS: PROGRESS IN ELIMINATION AND NEW CHALLENGES

Eric Ottesen
The Taskforce for Child Survival and Development, Atlanta, GA, United States

2:55 p.m.

HAT: NEW SETBACKS AND OPPORTUNITIES

Jean Jannin
World Health Organization, Geneva, Switzerland



Scientific Session 39

Schistosomiasis I – Epidemiology/Control

Grand Ballroom B

Monday, December 8, 1:30 p.m. – 3:15 p.m.

CHAIR

Jennifer F. Friedman
Brown University, Providence, RI, United States

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

1:30 p.m.

329

ZOONOTIC TRANSMISSION OF *SCHISTOSOMA JAPONICUM* IN CHINA AND THE PHILIPPINES

James W. Rudge¹, Da-bing Lu¹, Maria-Gloria Basanez¹, Tianping Wang², Helene Carabin³, Ernesto Balolong Jr⁴, Stephen T. McGarvey⁵, Joanne P. Webster¹

¹Imperial College London, London, United Kingdom, ²Anhui Institute of Parasitic Diseases, Wuhu, China, ³University of Oklahoma, Oklahoma City, OK, United States, ⁴Research Institute for Tropical Medicine, Muntinlupa, Philippines, ⁵Brown University, Providence, RI, United States

1:45 p.m.

330

IMPACT OF INTENSE, LONGITUDINAL RETREATMENT WITH PRAZIQUANTEL ON CURE RATES OF SCHISTOSOMIASIS MANSONI IN A COHORT OF OCCUPATIONALLY EXPOSED ADULTS IN WESTERN KENYA

Carla L. Black¹, Michelle L. Steinauer², Pauline N. Mwinzi³, W. Evan Secor⁴, Diana M. Karanja³, Daniel G. Colley¹
¹University of Georgia, Athens, GA, United States, ²University of New Mexico, Albuquerque, NM, United States, ³Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

2 p.m.

331

RELATIONSHIP BETWEEN MATERNAL ANEMIA OF INFLAMMATION AND BIRTH OUTCOMES IN *S. JAPONICUM* ENDEMIC VILLAGES OF LEYTE, THE PHILIPPINES

Jennifer F. Friedman¹, Luz P. Acosta², Mario A. Jiz¹, Blanca Jarilla², David Margolius¹, Courtney Olson¹, Mary Paz Urbina², Remigio M. Olveda², Jonathan D. Kurtis¹

¹Center for International Health Research, Lifespan Hospital/ Brown University, Providence, RI, United States, ²Research Institute of Tropical Medicine, Manila, Philippines

2:15 p.m.

332

ESTIMATION OF ATTRIBUTABLE RISK OF ANEMIA DUE TO SCHISTOSOMIASIS IN WESTERN KENYA

Susan P. Montgomery¹, Erick M. Muok², Pauline N. Mwinzi², John M. Williamson¹, W. Evan Secor¹, Diana M. Karanja²
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Kenya Medical Research Institute, Kisumu, Kenya

2:30 p.m.

333

SCHISTOSOMIASIS AMONG YOUNG CHILDREN IN WESTERN KENYA

Jennifer R. Verani¹, Bernard Abudho², Susan P. Montgomery¹, Pauline M. Mwinzi², Hillary L. Shane¹, Sara E. Butler¹, Diana M. Karanja², William E. Secor¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Kenya Medical Research Institute, Kisumu, Kenya

2:45 p.m.

334

MATHEMATICAL MODELS FOR SCHISTOSOMIASIS TRANSMISSION DYNAMICS AND CONTROL IN SUB-SAHARAN AFRICA: LESSONS FROM KENYA AND UGANDA

Michael D. French¹, Thomas S. Churcher², Jimmy Kihara³, Joanne P. Webster¹, Maria-Gloria Basañez²
¹Schistosomiasis Control Initiative, Imperial College London, London, United Kingdom, ²Department of Infectious Disease Epidemiology, Imperial College London, London, United Kingdom, ³Kenya Medical Research Institute (KEMRI), Nairobi, Kenya

3 p.m.

335

INTEGRATING PROTOCOLS FOR MAPPING TRACHOMA AND URINARY SCHISTOSOMIASIS. CAN SURVEYS BE DONE SIMULTANEOUSLY?

Jonathan D. King¹, Frank Richards¹, Abel Eigege², Nimzing Jip², John Umaru², Michael Deming³, Deborah McFarland⁴, Emmanuel Miri², Paul M. Emerson¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Jos, Nigeria, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Emory University, Atlanta, GA, United States

Symposium 40

American Committee of Medical Entomology (ACME) I: Release of Modified Vectors: Strategies and Technical Feasibility

Grand Ballroom C

Monday, December 8, 1:30 p.m. – 3:15 p.m.

Twenty years ago, it was postulated that it would someday be possible to suppress certain vector-borne diseases through the release of vectors that were altered in such a way as to diminish the vector competence, lifespan or abundance of native populations. Rapid advances in molecular and genetic techniques have brought us to the threshold of that reality. Three general strategies have been developed: replacement of native vector populations with populations possessing reduced vector competence, shortening of vector longevity and suppression of vector abundance. This symposium examines the technical aspects of each strategy.

CHAIR

Jefferson A. Vaughan
University of North Dakota, Grand Forks, ND, United States

1:30 p.m.

REDUCING VECTOR COMPETENCE: THE MALARIA MODEL

Marcelo Jacobs-Lorena
Johns Hopkins School of Public Health, Baltimore, MD, United States

1:55 p.m.

CREATING GENETIC ELEMENTS TO DRIVE POPULATION REPLACEMENT

Bruce A. Hay
California Institute of Technology, Pasadena, CA, United States

2:20 p.m.

REDUCING VECTOR ABUNDANCE AND/OR CAPACITY WITH BACTERIAL ENDOSYMBIONTS

Stephen L. Dobson
University of Kentucky, Lexington, KY, United States

2:45 p.m.

REDUCING VECTOR ABUNDANCE WITH IMPROVED STERILE INSECT TECHNIQUE

Luke Alphey
Oxitec Limited, Oxford, United Kingdom

Symposium 41

Global Strategies for Using Antimalarial Drugs: Making the Most of a Precious Resource

Grand Ballroom D

Monday, December 8, 1:30 p.m. – 3:15 p.m.

The idea of using only combinations of drugs — as opposed to monotherapy — to treat cases of malaria took hold only a few years ago, decades after the same concept had become ingrained in the treatment of TB and had been the norm almost since the beginning of the HIV treatment era. Making sure everyone gets a drug combination for malaria treatment (preferably a coformulation, i.e., two or more drugs in one pill) is only the first step, however. This symposium will examine malaria drug policies that could be instituted to ensure that malaria drugs remain effective for as long as possible, while curing the greatest numbers. The results of modeling will be presented showing that deliberate use of more than one drug for first-line treatment of uncomplicated malaria in a population has a proportionately greater effect than would be predicted on the basis of simple drug pressure alone (that is, the fewer the courses of a drug used, the longer it would be expected to remain effective). A policy of “multiple first-line therapy” (MFT) would present practical challenges in malaria-endemic countries, where standard practice has been to name a single first-line treatment. The developing Affordable Medicines Facility-malaria (AMFm) may play a role in facilitating a transition to MFT.

CHAIR

Hellen Gelband
Resources for the Future, Washington, DC, United States
Ramanan Laxminarayan
Resources for the Future, Washington, DC, United States

1:30 p.m.

INTRODUCTION

Ramanan Laxminarayan
Resources for the Future, Washington, DC, United States

1:45 p.m.

MULTIPLE FIRST-LINE THERAPIES (MFT) FOR MALARIA: WHAT'S IT ALL ABOUT AND WHY WILL IT HELP SAVE MALARIA DRUGS

David Smith
University of Florida, Gainesville, FL, United States

2:10 p.m.

ANTIMALARIAL RESISTANCE MONITORING: USING SURVEILLANCE TO INFORM DECISIONS

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

2:35 p.m.

PRACTICAL CHALLENGES IN A MALARIA DRUG POLICY CHANGE TO MFT: FROM CONCEPT TO REALITY

Ambrose O. Talisuna
Medicines for Malaria Venture, Kampala, Uganda

3 p.m.

AMFM — THE AFFORDABLE MEDICINES FACILITY — MALARIA: HOW IT CAN HELP THE IMPLEMENTATION OF MFT POLICIES

Hellen Gelband
Resources for the Future, Washington, DC, United States



Symposium 42

Advances Towards Understanding Mechanisms of Pathology and Protection in Trypanosomatid Infections

Grand Ballroom E

Monday, December 8, 1:30 p.m. – 3:15 p.m.

Recent advances in both animal models and human studies of trypanosomatid infections have helped us gain a better understanding of the factors that control generation of protective and pathogenic immune responses in these important parasitic diseases that affect hundreds of millions worldwide. In particular, infection with *T. cruzi* (causative agent for Chagas disease) leads to a complex series of interactions with the host that can lead to the development of an indeterminate clinical form (mild) or cardiac disease (the most severe clinical form). Similarly, infection with one species of *Leishmania* can lead to relatively mild clinical forms such as cutaneous disease, or to severe clinical forms like mucosal or disseminated disease. Recent data points to important factors for development of protective or pathogenic responses in these diseases, as well as for development of effective memory responses. Our symposium will address these issues in both animal models and human infection with *T. cruzi* or *Leishmania*, providing insights to these and other diseases.

CHAIR

Kenneth J. Gollob
Federal University of Minas Gerais, Belo Horizonte, Brazil

1:30 p.m.

ADIPOSE TISSUE AND CHAGAS DISEASE: IS THERE A CONNECTION?

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

1:55 p.m.

GENERATION OF PROTECTIVE AND PATHOGENIC IMMUNE RESPONSES IN HUMAN CHAGAS DISEASE

Walderez O. Dutra
Federal University of Minas Gerais, Belo Horizonte, MG, Brazil

2:20 p.m.

MECHANISMS IMPORTANT FOR GENERATION OF EFFECTOR AND CENTRAL MEMORY RESPONSES IN ANIMAL MODELS OF LEISHMANIA INFECTION

Phillip Scott
University of Pennsylvania, Philadelphia, PA, United States

2:45 p.m.

IMMUNOREGULATION OF HUMAN LEISHMANIASIS AND IMPLICATIONS FOR TREATMENT

Edgar M. Carvalho
Federal University of Bahia, Salvador, BA, Brazil

Scientific Session 43

Malaria – Immunology II

Gallery

Monday, December 8, 3:45 p.m. – 5:30 p.m.

CHAIR

Chandy C. John
University of Minnesota Medical School, Minneapolis, MN, United States

John Waitumbi
Kenya Medical Research Institute, Kisumu, Kenya

3:45 p.m.

336

EXPERIMENTAL MALARIA INFECTION TRIGGERS RAPID EXPANSION OF NATURAL KILLER CELLS

Sunil Parikh, Charlie C. Kim, Joseph C. Sun, Alissa Myrick, Lewis L. Lanier, Philip J. Rosenthal, Joseph L. DeRisi
University of California-San Francisco, San Francisco, CA, United States

4 p.m.

337

SERUM VON WILLEBRAND FACTOR LEVELS EFFECTIVELY DISCRIMINATE BETWEEN CEREBRAL MALARIA AND UNCOMPLICATED MALARIA

Gregory S. Park¹, Robert O. Opoka², Michael J. Boivin³, Chandy C. John¹
¹University of Minnesota, Minneapolis, MN, United States, ²Makerere University, Kampala, Uganda, ³Michigan State University, East Lansing, MI, United States

(ACMCIP Abstract)

4:15 p.m.

338

B CELL ACTIVITY IN CHILDREN WITH MALARIA

Jackson C. Korir¹, Ronald P. Taylor², John N. Waitumbi¹
¹Walter Reed Project/KEMRI, Kisumu, Kenya, ²Department of Biochemistry and Molecular Genetics, University of Virginia School of Medicine, Charlottesville, VA, United States

(ACMCIP Abstract)

4:30 p.m.

339

FUNCTIONAL ASSOCIATION BETWEEN RANTES-4151C/T PROMOTER POLYMORPHISM AND HIGH-DENSITY FALCIPARUM PARASITEMIA AMONG CHILDREN IN A HOLOENDEMIC MALARIA TRANSMISSION AREA

Tom Were¹, Collins Ouma¹, Greg C. Davenport², James B. Hittner³, Michael F. Otieno⁴, Alloys S. Orago⁵, John M. Vulule⁶, John M. Ong'echa¹, Douglas J. Perkins⁷

¹University of New Mexico/KEMRI, Kisian, Kenya, ²University of Pittsburgh, Pittsburgh, PA, United States, ³Department of Psychology, College of Charleston, Charleston, SC, United States, ⁴Department of Pre-Clinical Sciences, School of Health Sciences, Kenyatta University, Nairobi, Kenya, ⁵National AIDS Control Council, Nairobi, Kenya, ⁶Centre for Global Health Research, Kenya Medical Research Institute, Kisian, Kenya, ⁷Division of Infectious Diseases, University of New Mexico School of Medicine, New Mexico, NM, United States

(ACMCIP Abstract)

4:45 p.m.

340

LEUCOCYTES AND CYTOKINE PRODUCTION IN PATHOGENESIS OF SEVERE MALARIA IN MALAWIAN CHILDREN

Wilson L. Mandala¹, Steve A. Ward², Malcolm E. Molyneux³, Calman A. MacLennan⁴

¹College of Medicine, Blantyre, Malawi, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ³Malawi Liverpool Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ⁴MRC Centre for Immune Regulation, University of Birmingham, Birmingham, United Kingdom

5 p.m.

341

CYTOKINE PROFILE IN VARIOUS SEVERE FORMS OF FALCIPARUM MALARIA IN CENTRAL INDIA

Vidhan Jain¹, Sukla Biswas², A. P. Dash³, Naomi Lucchi⁴, Neeru Singh⁵

¹National Institute of Malaria Research FS (ICMR), Jabalpur, India, ²National Institute of Malaria Research (ICMR), New Delhi, India, ³National Institute of Malaria Research (ICMR), New Delhi, India, ⁴Malaria Branch, Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁵Regional Medical Research Center for Tribals (ICMR), Jabalpur, India

(ACMCIP Abstract)

5:15 p.m.

342

ASSOCIATION OF LOW CYTOKINE GENE POLYMORPHISMS IN RESISTANCE AND SUSCEPTIBILITY TO *PLASMODIUM FALCIPARUM* INFECTION IN ZIMBABWE

Takafira Mduleza¹, Davison Sangweme¹, Nicholas Midzi¹, Sekesai Zinyowera¹, Godfree Mlambo¹, Susan L. Mutambu², Nirbhay Kumar³

¹University of Zimbabwe, Harare, Zimbabwe, ²National Institutes of Health Research, Harare, Zimbabwe, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

(ACMCIP Abstract)

Exhibit Hall Open

Napoleon Ballroom

Monday, December 8, 3 p.m. – 4 p.m.

Coffee Break

Napoleon Ballroom

Monday, December 8, 3:15 p.m. – 3:45 p.m.

Symposium 44

Malnutrition and Infection in the Tropics

Rhythms I

Monday, December 8, 3:45 p.m. – 5:30 p.m.

The synergy of malnutrition between malnutrition and infections accounts for 55 percent of the deaths among children in developing countries. The epidemiologic scope of this problem is continuing to expand with recent recognition that malnutrition may contribute to susceptibility to malaria and amebiasis. The mechanisms of the immunodeficiency of malnutrition are also poorly understood. Evolving data suggest that adipokines, such as leptin and adiponectin, may influence susceptibility to infection.

CHAIR

Gregory M. Anstead
University of Texas Health Science Center, San Antonio, TX, United States

Richard L. Guerrant
University of Virginia, Charlottesville, VA, United States

3:45 p.m.

MALNUTRITION AND INFECTION: A GLOBAL PROBLEM

Richard L. Guerrant
University of Virginia, Charlottesville, VA, United States

4:10 p.m.

NUTRITIONAL STATUS IN SCHISTOSOMIASIS AND MALARIA: RESOLVING THE CONTROVERSIES

Jennifer F. Friedman
Brown University, Providence, RI, United States

4:35 p.m.

MALNUTRITION AND SUSCEPTIBILITY TO AMEBIASIS

William A. Petri
University of Virginia, Charlottesville, VA, United States



5 p.m.

NUTRIKINES: MOLECULAR LINKS BETWEEN NUTRITIONAL STATUS AND THE IMMUNE SYSTEM

Gregory M. Anstead
University of Texas Health Science Center, San Antonio, TX, United States

Symposium 45

Update on the Pharmacokinetics, Aafety and Efficacy of ACTs and Mefloquine for the Treatment and Prevention of Malaria in Pregnancy

Rhythms IIIII

Monday, December 8, 3:45 p.m. – 5:30 p.m.

Experts in the field of malaria in pregnancy will provide updates on recent progress of their malaria in pregnancy studies: 1) the latest pharmacokinetics data on the use of antimalarials in pregnancy; 2) a review of the safety of artemisinins in pregnancy from the Thai-Burmese border; 3) a recently completed trial on mefloquine for the intermittent preventive treatment of malaria in pregnancy in Benin; and 4) a trial on artemether-lumefantrine for the treatment of malaria in the second and third trimester of pregnancy in Uganda.

CHAIR

Jenny Hill
Malaria in Pregnancy Consortium, Liverpool School of Tropical Medicine, United Kingdom

Feiko ter Kuile
Malaria in Pregnancy Consortium, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

3:45 p.m.

AN UPDATE ON THE PHARMACOKINETICS OF ANTIMALARIALS IN PREGNANCY

Francois Nosten
Shoklo Malaria Research Institute, Mae Sod, Thailand

4:10 p.m.

A REVIEW OF THE SAFETY OF ARTEMISININS IN PREGNANCY: EXPERIENCE FROM THE THAI-BURMESE BORDER

Rose McGready
Shoklo Malaria Research Institute, Mae Sod, Thailand

4:35 p.m.

A TRIAL ON MEFLOQUINE FOR THE INTERMITTENT PREVENTIVE TREATMENT OF MALARIA IN PREGNANCY IN BENIN.

Michel Cot
Institut de Recherche pour le Développement, Paris, France

5 p.m.

ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF MALARIA IN SECOND AND THIRD TRIMESTER PREGNANCY: A TRIAL FROM UGANDA

Patrice Piola
Epicentre, Medecins sans Frontiere, Mbarara, Uganda

Scientific Session 46

Malaria – Molecular Markers of Drug Resistance

Napoleon A123

Monday, December 8, 3:45 p.m. – 5:30 p.m.

CHAIR

Andrea M. McCollum
Centers for Disease Control and Prevention, Atlanta, GA, United States

Daouda Ndiaye
Cheikh Anta Diop University, Dakar, Senegal

3:45 p.m.

343

GENETIC HITCHHIKING, SELECTIVE SWEEPS, AND MULTIPLE ORIGINS OF DRUG RESISTANT *PLASMODIUM FALCIPARUM* IN THREE DISTINCT POPULATIONS

Andrea M. McCollum¹, Venkatachalam Udhayakumar¹, Ananias A. Escalante²
¹*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ²*Arizona State University, Tempe, AZ, United States*

4 p.m.

344

DISPERSAL OF DRUG RESISTANT DHPS REVEALS REGIONAL MIGRATION PATTERNS AMONG AFRICAN *PLASMODIUM FALCIPARUM*

Richard Pearce, Cally Roper
London School of Hygiene and Tropical Medicine, London, United Kingdom

4:15 p.m.

345

FIVE-YEAR SURVEILLANCE OF MOLECULAR MARKERS OF *PLASMODIUM FALCIPARUM* ANTIMALARIAL DRUG RESISTANCE IN KOROGWE DISTRICT, TANZANIA – ACCUMULATION OF THE 581G MUTATION IN THE *PFDHPS* GENE

Michael Alifrangis¹, John P. Lusingu², Bruno Mmbando², Michael B. Dalgaard¹, Lasse S. Vestergaard¹, Deus Ishengoma², Insaf F. Khalil¹, Thor G. Theander¹, Martha M. Lemnge², Ib C. Bygbjerg¹
¹*Centre for Medical Parasitology, University of Copenhagen and Rigshospitalet, Denmark*, ²*National Institute for Medical Research, Tanga Centre, Tanga, United Republic of Tanzania*

Monday, December 8

4:30 p.m.

346

THE INTRA-HOST DYNAMICS OF *PF CRT AND PFMDR-1* ALLELES FOLLOWING ANTIMALARIAL TREATMENT IN SUDANESE PATIENTS

Nahla B. Gadalla¹, Ishag Adam², David C. Warhurst¹, Badria B. El-Sayed³, Colin J. Sutherland¹
¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Faculty of Medicine, University of Khartoum, Khartoum, Sudan, ³Tropical Medicine Research Institute, Khartoum, Sudan

4:45 p.m.

347

META-ANALYSIS OF MOLECULAR SURVEILLANCE STUDIES EXAMINING SULPHADOXINE-PYRIMETHAMINE (SP) RESISTANCE MARKERS IN AFRICAN *P. FALCIPARUM* POPULATIONS

Sankar Sridaran, Luke M. Syphard, John W. Barnwell, Venkatachalam Udhayakumar
 Centers for Disease Control and Prevention, Atlanta, GA, United States

5 p.m.

348

EMERGENCE OF A DHFR MUTATION CONFERRING HIGH-LEVEL DRUG RESISTANCE IN *PLASMODIUM FALCIPARUM* POPULATIONS FROM SOUTHWEST UGANDA

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

5:15 p.m.

349

EVALUATION OF *EX VIVO* DRUG SENSITIVITY FROM *PLASMODIUM FALCIPARUM*-INFECTED SENEGALESE PATIENTS

Daouda Ndiaye¹, Vishal Patel², Johanna Patricia Daily², Alisson Demas¹, Omar Ndir¹, Souleymane Mboup¹, Dyann F. Wirth²
¹Cheikh Anta Diop University, Dakar, Senegal, ²Immunology and Infectious Diseases, Harvard School of Public Health, Boston, MA, United States

Scientific Session 47

Kinetoplastida I: Molecular Biology and Immunology

Maurepas

Monday, December 8, 3:45 p.m. – 5:30 p.m.

CHAIR

Vivian Bellofatto
 New Jersey Medical School, Newark, NJ, United States
 Peter E. Kima
 University of Florida, Gainesville, FL, United States

3:45 p.m.

350

CHANGES IN MICRORNAs EXPRESSED BY HUMAN MACROPHAGES AS A RESULT OF *LEISHMANIA CHAGASI* INFECTION

Anne M. Dickson¹, Anton McCaffrey¹, Mary E. Wilson²
¹Department of Internal Medicine, University of Iowa, Iowa City, IA, United States, ²Departments of Internal Medicine, Microbiology and Epidemiology, University of Iowa and the VA Medical Center, Iowa City, IA, United States

(ACMCIP Abstract)

4 p.m.

351

A NOVEL HIT-DOMAIN PROTEIN HYDROLYZES M7GPPPM662'A, WHICH IS A TRYPANOSOME-SPECIFIC HYPERMETHYLATED CAP STRUCTURE

Vivian Bellofatto
 New Jersey Medical School, Newark, NJ, United States

(ACMCIP Abstract)

4:15 p.m.

352

METABOLIC PROFILING OF CO-INFECTION OF *TRYPANOSOMA BRUCEI BRUCEI* STRAINS IN MICE

Jia Li¹, Jasmina Saric², Yulan Wang¹, Juerg Utzinger², Oliver Balmer², Elaine Holmes¹
¹Imperial College London, London, United Kingdom, ²Swiss Tropical Institute, Basel, Switzerland



Monday, December 8

4:30 p.m.

353

APPLICATION OF A BIOLUMINESCENT *LEISHMANIA MAJOR* IMAGING MODEL TO THE DEVELOPMENT OF A NOVEL KILLED BUT METABOLICALLY ACTIVE WHOLE CELL VACCINE

Jacquelyn N. Haskell¹, Ron A. Birnbaum¹, Veena Vanchinathan¹, Tamiko Konishi¹, Stephen M. Beverley², Kevin W. Bruhn¹, Noah Craft¹

¹Los Angeles Biomedical Research Institute, Division of Dermatology, Harbor-UCLA Medical Center, UCLA School of Medicine, Torrance, CA, United States, ²Washington University School of Medicine, St. Louis, MO, United States

4:45 p.m.

354

PARASITOPHOROUS VACUOLES THAT HARBOR *LEISHMANIA* PARASITES INTERACT EXTENSIVELY WITH THE HOST ENDOPLASMIC RETICULUM.

Blaise Ndjamen, Peter Kima
University of Florida, Gainesville, FL, United States

(ACMCIP Abstract)

5 p.m.

355

NEW INSIGHTS IN THE PATHOGENESIS OF *L. BRAZILIENSIS* INFECTION: ROLE OF TNF- α , IFN- γ AND IL-17

Olivia Bacellar¹, Marcia Nascimento¹, Thiago M. Cardoso¹, Walker Nonato¹, Shelene Poetker¹, Paulo L. Machado¹, Edward Pearce², Philip Scott², **Edgar M. Carvalho**¹

¹Federal University of Bahia, Salvador, Brazil, ²University of Pennsylvania, Philadelphia, PA, United States

5:15 p.m.

356

TUBULIN-BASED SUBUNIT VACCINE CANDIDATES SHOW PROMISE IN ANIMAL STUDIES

Elisabeth Knapp¹, Rosemary Flores¹, Kirby Steger¹, George Lubega², Ann Nantezza², Monica Namayanja², Roger Prichard³, Douglas Holtzman⁴, Vidadi Yusibov¹

¹Fraunhofer USA Inc., Center for Molecular Biotechnology, Newark, DE, United States, ²Department for Veterinary Parasitology and Microbiology, Makerere University, Kampala, Uganda, ³Institute of Parasitology, McGill University, Montreal, QC, Canada, ⁴Bill and Melinda Gates Foundation, Seattle, WA, United States

Symposium 48

Research Capacity Building in the Tropics

BAYSIDE A

Monday, December 8, 3:45 p.m. – 5:30 p.m.

For decades, international research has been an important mechanism to build research capacity in the tropics. However, new investigators, especially foreign researchers, face many difficulties establishing themselves as researchers in their home countries and are often tempted to migrate to more favorable settings in developed countries. Debate began at an international symposium in 2004, and continued during the review of long-term training programs and a revision of the peer review process at the U.S. National Institutes of Health. Important regional experiences have taken place in the tropics, and now it is crucial to disseminate available evidence of their results and impact. Mechanisms to assist recent foreign graduates to re-establish at their home countries after international training deserve special attention, such as re-entry grants and international young investigator awards.

CHAIR

Andres G. Lescano
U.S. Naval Medical Research Center Detachment, Lima, Peru
Joel M. Montgomery
Centers for Disease Control and Prevention, Atlanta, GA, United States

3:45 p.m.

NATIONAL INSTITUTES OF HEALTH/FOGARTY INTERNATIONAL CENTER SUPPORT TO BUILD RESEARCH CAPACITY

Barbara Sina
Fogarty International Center, National Institutes of Health, Bethesda, United States

4:10 p.m.

BUILDING RESEARCH CAPACITY IN THE TROPICS: AN AFRICAN EXPERIENCE

John M. Ong'echa
University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Nairobi, Kenya

4:35 p.m.

BUILDING RESEARCH CAPACITY IN INDIA

Gagandeep Kang
Christian Medical College, Vellore, India

5 p.m.

CRAFTING GOLDEN PARACHUTES: THE PERU EXPERIENCE

Andres G. Lescano
U.S. Naval Medical Research Center Detachment, Lima, Peru

Late Breaker Abstract Session 49

Late Breakers in Clinical Tropical Medicine

Bayside BC

Monday, December 8, 3:45 p.m. – 5:30 p.m.

This session is specifically designed for presentations of new data obtained after the closing date for abstract submission. Presentations feature reports of clinical trials, preliminary data on new outbreaks of disease or individual case reports of interest. See the Late Breaker handout in your registration packet for the presentation schedule.

CHAIR

Barbara L. Herwaldt
Centers for Disease Control and Prevention, Atlanta, GA, United States

David McNeeley
Tibotec, Teaneck, NJ, United States

Late Breaker Abstract Session 50

Late Breakers in Basic Science/Molecular Biology

Grand Ballroom A

Monday, December 8, 3:45 p.m. – 5:30 p.m.

This session is specifically designed for brief presentations of new data obtained after the closing date for abstract submission. See the Late Breaker handout in your registration packet for the presentation schedule.

CHAIR

Stefan Kappe
Seattle Biomedical Research Institute, Seattle, WA, United States

Greg Ebel
University of New Mexico School of Medicine, Albuquerque, NM, United States

Scientific Session 51

Schistosomiasis II – Immunology/Pathology

Grand Ballroom B

Monday, December 8, 3:45 p.m. – 5:30 p.m.

CHAIR

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

Shona Wilson
University of Cambridge, Cambridge, United Kingdom

3:45 p.m.

357

THE EFFECT OF SNP VARIANTS IN THE 3'-UTR REGION OF *IL-5* ON GENE TRANSCRIPTION AND MRNA STABILITY AND THEIR ROLE IN SYMPTOMATIC INFECTION WITH *SCHISTOSOMA JAPONICUM*

Magda K. Ellis¹, Yuesheng Li¹, Honggen Chen², Donald P. McManus¹
¹*QIMR, Brisbane, Australia*, ²*Jiangxi Institute of Parasitic Diseases, Nanchang, China*

4 p.m.

358

ASSOCIATION OF THE GENE POLYMORPHISMS IFN- Γ +874 AND IL-13 -1055 WITH PATTERNS OF REINFECTION WITH *SCHISTOSOMA MANSONI*

Michael R. Gatlin¹, Carla L. Black¹, Pauline N. Mwinzi², W. Evan Secor³, Diana M. Karanja², Daniel G. Colley¹
¹*University of Georgia, Athens, GA, United States*, ²*Kenya Medical Research Institute, Kisumu, Kenya*, ³*Centers for Disease Control and Prevention, Atlanta, GA, United States*

4:15 p.m.

359

COMPARISON OF POTENTIALLY PROTECTIVE HUMAN TH2 RESPONSES AGAINST DIFFERENT SCHISTOSOME SPECIES

Shona Wilson¹, Birgitte J. Vennervald², Narics B. Kabatereine³, Moussa Sacko⁴, Gachuhi Kimani⁵, Eric Muchiri⁶, David W. Dunne¹
¹*University of Cambridge, Cambridge, United Kingdom*, ²*DBL – Centre for Health Research and Development, Copenhagen, Denmark*, ³*Vector Control Division, Ministry of Health, Kampala, Uganda*, ⁴*Institut National de Recherche en Sante Publique, Bamako, Mali*, ⁵*Kenya Medical Research Institute, Nairobi, Kenya*, ⁶*Division of Vector Borne Diseases, Kenyan Ministry of Health, Nairobi, Kenya*

4:30 p.m.

360

THE ROLE OF HYGIENIC BATHING AFTER DEFECATION IN THE TRANSMISSION OF *SCHISTOSOMA MANSONI*

Sake J. de Vlas¹, Seydou Sow², Kim Vereecken³, Jozef Vercruyssen⁴, Bruno Gryseels³, Katja Polman³
¹*Erasmus MC, Rotterdam, Netherlands*, ²*Région Médicale de St. Louis, St. Louis, Senegal*, ³*Institute of Tropical Medicine, Antwerp, Belgium*, ⁴*Faculty of Veterinary Medicine, Ghent, Belgium*

4:45 p.m.

361

CYTOKINES PROFILES IN SPLEEN CELLS AND EXPRESSION IN HEPATIC GRANULOMAS BEFORE AND AFTER CHALLENGE WITH *SCHISTOSOMA MANSONI* IN C57BL/6 MICE VACCINATED WITH MICE AND HUMAN ANTI-IDIOTYPES

Mohamed A. Ali¹, Atef M. Al-Shazly², Yehia S. Ibrahim¹
¹Faculty of Medicine, Minia University, Al-Minia Governorate, Egypt, ²Faculty of Medicine, Mansoura University, Al-Dakhalia Governorate, Egypt

5 p.m.

362

CIRCULATING CD23+ B CELL SUBSET LEVELS IN ADULTS WITH *SCHISTOSOMA MANSONI* INFECTIONS

Pauline N. Mwinzi¹, Lisa M. Ganley-Leal², Carla L. Black³, W. Evan Secor⁴, Diana M. Karanja¹, Daniel G. Colley³
¹Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, ²Boston University School of Medicine, Boston Medical Center, Boston, MA, United States, ³University of Georgia, Athens, GA, United States, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

5:15 p.m.

363

TREMATODE INDUCED CHANGES IN THE BRAIN METABOLIC PROFILE

Jasmina Saric¹, Jia Li², Jennifer Keiser¹, Jürg Utzinger¹, Olaf Beckonert², Elaine Holmes²
¹Swiss Tropical Institute, Basel, Switzerland, ²Imperial College London, London, United Kingdom

Symposium 52

American Committee of Medical Entomology (ACME) II: Release of Modified Vectors: Practical and Ethical Feasibility

Grand Ballroom C

Monday, December 8, 3:45 p.m. – 5:30 p.m.

Twenty years ago, it was postulated that it would someday be possible to suppress certain vector-borne diseases through the release of vectors that were altered in such a way as to diminish the vector competence, lifespan or abundance of native populations. Rapid advances in molecular and genetic techniques have brought us to the threshold of that reality. This symposium examines the practical aspects of moving from controlled laboratory experiments to actual release of modified vectors in the field. But before that can happen, there are certain risks, ethical issues and social ramifications that need to be considered. This symposium will review the modeling efforts used to predict the likely outcomes of releasing modified vectors on disease transmission within endemic areas. It will also attempt to define how best to develop a rational approach towards risk assessment and help to crystallize our understanding of the ethical and social issues involved.

CHAIR

Jefferson A. Vaughan
 University of North Dakota, Grand Forks, ND, United States

3:45 p.m.

MODELING THE POTENTIAL OUTCOMES OF RELEASING MODIFIED VECTORS

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

4:10 p.m.

SCIENCE, SOCIETY AND SUSTAINABILITY: GENETICS AND THE CONTROL OF MOSQUITO-BORNE DISEASES

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

4:35 p.m.

ASSESSING THE RISKS OF RELEASING MODIFIED VECTORS

David A. Andow
 University of Minnesota, St. Paul, MN, United States

5 p.m.

COMMUNITY ENGAGEMENT: AN ETHICAL REQUIREMENT BEFORE MODIFIED VECTORS ARE RELEASED

Lara El Zahabi-Bekdash
 University of Toronto, Toronto, ON, Canada

Symposium 53

The Antimalarials Market in Africa: Do We Know Enough?

Grand Ballroom D

Monday, December 8, 3:45 p.m. – 5:30 p.m.

This symposium will share information on new initiatives to understand the antimalarials market, highlight gaps in knowledge requiring further research and emphasize the importance for countries, manufacturers and donors in having access to improved market data. Despite high mortality rates, malaria is a fact of life for many people across Africa, 40 – 60 percent of whom seek treatment in the private sector. There is a thriving market for antimalarials in the private sector. Older classes of drugs are available even in remote areas. However, these classes (Chloroquine and SP) often face resistance, while newer classes have not replaced them in the private sector at local level. The antimalarials market in endemic countries is poorly understood and inadequately described. Detailed IMS-type data, outlining the different product types, market segments, pricing structures and supply chains simply do not exist. The lack of market data has implications for manufacturers, donors and national authorities in terms of clarifying total market, making credible forecasts, planning access through different outlet types and securing required donor funding. New initiatives are underway to improve mapping of the antimalarials market. Medicines for Malaria Venture (MMV) brings together international players in the field of surveillance of the antimalarial market, focusing on non-commercial approaches to gathering and sharing data. By working together and using similar market survey methodologies, significant progress can be made to improve understanding of the size and structure of the antimalarials market in Africa.

CHAIR

Ricardo Thompson
 National Institute of Research of Mozambique, Maputo, Mozambique

Renia Coghlan
 Medicines for Malaria Ventures, Geneva, Switzerland

Detailed Program

3:45 p.m.

THE ANTIMALARIALS MARKET IN AFRICA: A CRITICAL NEED FOR KNOWLEDGE

Saul Walker
United Kingdom Department for International Development (DfID), London, United Kingdom

4 p.m.

HOW THE ABSENCE OF MARKET DATA IMPACTS ON ENDEMIC COUNTRY UPTAKE OF ACTS: AN ENDEMIC COUNTRY EXPERIENCE

Storn Kabuluzi
Ministry of Health, Lilongwe, Malawi

4:20 p.m.

STRUCTURING A FIVE-YEAR MARKET SURVEY PROGRAMME: ACT WATCH

Kate O'Connell
ACT Watch, PSI, Washington, United States

4:35 p.m.

UNDERSTANDING THE ANTIMALARIALS MARKET IN UGANDA: RESULTS OF THE MMV MARKET STUDY

Rosette Mutambi
HEPS Uganda, Kampala, Uganda

4:55 p.m.

PANEL DISCUSSION AND CONCLUDING REMARKS

Symposium 54

How PPPs Can Contribute to the Fight Against Most Neglected Diseases?

Grand Ballroom E

Monday, December 8, 3:45 p.m. – 5:30 p.m.

Aside from the three killers – malaria, TB and AIDS – some diseases are more than neglected. This symposium will explore a partnership engaged in the fight against some of the most neglected tropical diseases, including sleeping sickness, Leishmaniasis, Buruli ulcer and Chagas Disease. The synergistic method is the best with a renewed commitment to work together for the elimination of these diseases. This symposium will explain the step by step strategy, the field objectives, the logical implication of everybody, from research to community centers with one goal: to work altogether to eliminate some of the MND of the developing world.

CHAIR

Jean Jannin
World Health Organization, Geneva, Switzerland
Simon Croft
London School of Hygiene and Tropical Medicine, London, United Kingdom

3:45 p.m.

OUR COMMITMENT, IN PARTNERSHIP WITH THE WHO, TO FIGHT AGAINST MOST NEGLECTED DISEASES

Robert Sebbag
sanofi-aventis, Paris, France

4:05 p.m.

CONCEPT OF ELIMINATION OF SOME OF THE MOST NEGLECTED DISEASES

Jean Jannin
World Health Organization, Geneva, Switzerland

4:25 p.m.

CUTANEOUS LEISHMANIASIS: CHALLENGES AND OPPORTUNITIES

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

4:45 p.m.

SLEEPING SICKNESS: CHANGING OUR MIND FOR SUSTAINABLE CONTROL

Pere Perez-Simarro
World Health Organization, Geneva, Switzerland

5:05 p.m.

PANEL DISCUSSION

Anne Moore
Centers for Disease Control and Prevention, Division of Parasitic Diseases, Atlanta, GA, United States

Plenary Session 55

Plenary Session II: Charles Franklin Craig Lecture

Grand Ballroom C

Monday, December 8, 6 p.m. – 6:45 p.m.

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

CHAIR

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

THE HUNT FOR THE RESERVOIR HOSTS OF MARBURG AND EBOLA VIRUSES

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

Poster Session A Dismantle

Armstrong Ballroom

Monday, December 8, 7 p.m. – 8 p.m.



ASTMH 57th Annual Meeting

www.astmh.org

Satellite Symposium

From Field Experience to the Discovery of Antimalarials: Partnerships in Action

Sponsored by sanofi-aventis

Gallery

Monday, December 8, 7 p.m. – 8:15 p.m.

sanofi-aventis and the Drugs for Neglected Diseases Initiative (DNDi) have in concert developed a fixed-dose combination of artesunate-amodiaquine ("ASAQ") that was launched in sub-Saharan Africa in 2007. This symposium aims to demonstrate how the partnership between sanofi-aventis and DNDi is evolving into a multi-pronged partnership with the objective to gather good quality data about existing antimalarials' safety and effectiveness, and to continue the development of new antimalarials. More specifically, we will present how the partnership is proactively collecting safety and efficacy data information on ASAQ. We will also discuss how sanofi-aventis and its partners conduct a discovery and development program, including the rationale for the development of a new antimalarial candidate (bis-thiazolium, SAR97276). Currently, the partnership discovery and development programs boast several compounds, two of which have reached the clinical development stage.

CHAIR

Wilfred Mbacham
Biotechnologies Centre, University of Yaounde I, Yaounde, Cameroon

REVIEW OF CLINICAL EXPERIENCE WITH THE ARTESUNATE-AMODIAQUINE FIXED-DOSE COMBINATION

Milijaona Randrianarivelosia
Institut Pasteur, Madagascar, Madagascar

EFFICACY AND SAFETY MONITORING IN THE FIELD: THE ARTESUNATE-AMODIAQUINE FIXED-DOSE COMBINATION MONITORING PLAN

Francois Bompert
sanofi-aventis Access to Medicines, Paris, France

NEW APPROACHES FOR THE TREATMENT OF SEVERE MALARIA: BIS-THIAZOLIUM SAR97276

Henri Vial
University Montpellier, Montpellier, France

THE SEARCH FOR NEW ANTIMALARIAL DRUGS: SANOFI-AVENTIS' RESEARCH AND DEVELOPMENT PROGRAM

Laurent Fraise
sanofi-aventis, Toulouse, France

Satellite Symposium

From Tourist to Expatriate: An Update on Risk and Prevention of Japanese Encephalitis

Sponsored by Novartis Vaccines

Rhythms III/III

Monday, December 8, 7 p.m. – 8:15 p.m.

A review of Japanese Encephalitis (JE), including epidemiology, case studies and consideration of JE vaccination; from past experience in Asia and the U.S. military, to the future outlook in travel.

CHAIR

David O. Freedman
University of Alabama Birmingham, Birmingham, AL, United States

WELCOME AND INTRODUCTION

David O. Freedman
University of Alabama Birmingham, Birmingham, AL, United States

JE RISK ASSESMENT IN THE TOURIST AND EXPATRIATE: A REVIEW OF EPIDEMIOLOGY, CASE STUDIES AND CONSIDERATIONS FOR PROPHYLAXIS

Bradley A. Connor
Travel Health Services, New York, NY, United States

JE VACCINATION: PAST SUCCESSES IN ASIA AND FUTURE OUTLOOK IN TRAVEL

Elaine Jong
University of Washington, Edmonds, WA, United States

JE VACCINATION IN THE U.S. MILITARY

LTC Wayne E. Hachey
Director, Preventive Medicine, Office of the Assistant Secretary Of Defense (Health Affairs) Force Health Protection And Readiness, Falls Church, VA, United States,

Monday, December 8

Satellite Symposium

Treating Malaria with Pyronaridine-Artesunate: Safety and Efficacy Results in Phase III Clinical Studies

Sponsored by Medicines for Malaria Venture and Shin Poong Pharmaceuticals

Grand Ballroom A

Monday, December 8, 7 p.m. – 8:15 p.m.

Choices of safe, effective and affordable antimalarials are limited. The co-sponsors of the symposium, Medicines for Malaria Venture and their partner, Shin Poong Pharmaceuticals Ltd, are dedicated to developing high-quality medicines appropriate for those living in disease endemic countries. The speakers will focus on presenting and discussing the clinical results of three Phase III clinical trials of this novel ACT combination which were carried out in Africa and Asia: A) The safety and efficacy of a fixed dose combination of Pyronaridine/Artesunate tablets compared to artemether/lumefantrine in children and adult patients with uncomplicated *P. falciparum* malaria; B) The safety and efficacy of a fixed dose combination of Pyronaridine/Artesunate granules (pediatric formulation) compared to artemether/lumefantrine crushed tablets in pediatric patients with uncomplicated *P. falciparum* malaria; C) The safety and efficacy of a fixed-dose combination of Pyronaridine/Artesunate tablets compared to chloroquine in children and adult patients with uncomplicated *P. vivax* malaria.

CHAIR

Antoinette Tshifu

University of Kinshasa, Kinshasa, Congo

Stephan Duparc

Medicines for Malaria Venture, Geneva, Switzerland

PYRONARIDINE-ARTESUNATE VS. ARTEMETHER/LUMEFANTRINE: EFFICACY IN MALARIA PATIENTS WITH UNCOMPLICATED ACUTE *P. FALCIPARUM* MALARIA: RESULTS FROM A PIVOTAL PHASE III TRIAL

Kassoum Kayentao

MRTC/FMPOS, Bamako, Mali

SAFETY IN ACUTE *P. FALCIPARUM* MALARIA PATIENTS TREATED WITH EITHER PYRONARIDINE-ARTESUNATE OR ARTEMETHER/LUMEFANTRINE IN A PIVOTAL PHASE III TRIAL

Antoinette Tshifu

University of Kinshasa, Kinshasa, Congo

TREATMENT OF PEDIATRIC PATIENTS WITH UNCOMPLICATED ACUTE *P. FALCIPARUM* MALARIA WITH PYRONARIDINE-ARTESUNATE GRANULES OR CRUSHED TABLET OF ARTEMETHER/LUMEFANTRINE IN A PHASE III CONTROLLED TRIAL

Riccardo Thompson

Instituto Nacional de Saude, Maputo, Mozambique

TREATMENT OF *P. VIVAX* PATIENTS WITH PYRONARIDINE-ARTESUNATE OR CHLOROQUINE IN A CONTROLLED PHASE III TRIAL

Emiliana Tjitra

National Institute of Malaria Research, Jakarta, Indonesia

Satellite Symposium

Artemether/Lumefantrine Continues to Demonstrate Excellent Efficacy and Safety

Sponsored by Novartis Pharma AG.

Grand Ballroom D

Monday, December 8, 7 p.m. – 8:15 p.m.

Clinical development of Artemether/Lumefantrine (A/L) led to registration by several stringent national drug regulatory authorities. Since the first approvals in 1999, further clinical work has been undertaken to improve the dosing regimen and to investigate the efficacy and safety of A/L in children with a body weight of >5 kg, leading to registration for treatment of this important patient group in 2005. The clinical program to profile A/L in the most vulnerable patient populations is ongoing. A prospective observational study in pregnant women was conducted, comparing the safety of sulfadoxine pyrimethamine (SP) vs. A/L in women exposed to A/L. In parallel, and with a view to ease the administration of A/L to infants and young children, a new formulation was developed in the form of a sweet-flavored dispersible tablet. This symposium will provide a comprehensive overview of the data collected from several clinical trials and observational studies investigating both the efficacy and safety of the regular and the dispersible A/L tablet.

CHAIR

Zul Premji

Muhimbili University, Department of Parasitic Infections, Dar es Salaam, United Republic of Tanzania.

POOLED EFFICACY AND SAFETY DATA IN ADULTS AND CHILDREN

Michael M. Makanga

European and Developing Countries Clinical Trials, Cape Town, South Africa

ARTEMETHER/LUMEFANTRINE DISPERSIBLE FORMULATION: PHARMACOKINETIC/PHARMACODYNAMIC AND FOOD EFFECT DATA FROM PHASE III TRIALS

Abdoulaye Djimde

University of Bamako, Bamako, Mali

ESTABLISHING A PREGNANCY REGISTRY TO ASSESS THE IMPACT OF ARTEMETHER/LUMEFANTRINE IF TAKEN DURING PREGNANCY

Christine Manyando

Tropical Diseases Research Centre, Ndola, Zambia.

DEVELOPING EFFECTIVE TRAINING MATERIALS FOR HEALTHCARE WORKERS

Ane E. Haaland

University of Oslo, Fjellstrand, Norway



Tuesday, December 9

Registration

Napoleon Ballroom

Tuesday, December 9, 7 a.m. – 5 p.m.

Cyber Cafe

Lagniappe

Tuesday, December 9, 7 a.m. – 5 p.m.

Speaker Ready Room

Nottoway

Tuesday, December 9, 7 a.m. – 6 p.m.

Education Committee Meeting

Salon 816

Tuesday, December 9, 7 a.m. – 8 a.m.

Journal Editorial Board Meeting

Salon 817/821

Tuesday, December 9, 7 a.m. – 8 a.m.

Clinical Group Past Presidents Meeting

Salon 824

Tuesday, December 9, 7 a.m. – 8 a.m.

Breakfast Session 55A

The Bill & Melinda Gates Foundation's Strategy on Neglected Tropical Diseases

Grand Ballroom D

Tuesday, December 9, 2008 7 a.m. - 7:50 a.m.

Staff from the Bill & Melinda Gates Foundation will share the Foundation's strategy on combating the following seven diseases, often referred to as Neglected Tropical Diseases (NTDs): Cysticercosis; Human African Trypanosomiasis; Guinea Worm; Lymphatic filariasis; Onchocerciasis; Schistosomiasis; Soil-transmitted helminthes (Ascariasis, Hookworm infection and Trichuriasis); Trachoma; and Visceral Leishmaniasis. The Foundation will discuss how it approaches combating NTDs, why combating these diseases is a priority, what select grantees are doing in support of the program's objectives and what the Foundation hopes to accomplish in the long term. A question and answer period will follow. A light breakfast will be served.

Press Room

Ellendale/Evergreen

Tuesday, December 9, 7:30 a.m. – 6:30 p.m.

Symposium 56

Pathophysiology, Pathology and Management of Severe Malaria

Gallery

Tuesday, December 9, 8 a.m. – 9:45 a.m.

This symposium is presented by the two research groups (working in Malawi and Southeast Asia) conducting studies of the pathology of severe malaria. Reflecting on over twenty years of research on the clinical features, pathophysiology and management of severe malaria, the similarities and differences in clinical and pathological features of severe malaria in African children and Asian adults will be presented and discussed and current management reviewed.

CHAIR

Nicholas J. White
Mahidol University, Faculty of Tropical Medicine, Bangkok, Thailand

Malcolm E. Molyneux
Blantyre Malaria Project, Blantyre, Malawi

8 a.m.

THE PATHOLOGY OF SEVERE MALARIA

Gareth Turner
Nuffield Department of Pathology, Oxford, United Kingdom

8:20 a.m.

THE PATHOLOGY OF SEVERE MALARIA

Steve Kamiza
University of Malawi, College of Medicine, Malawi, Malawi

8:40 a.m.

PATHOPHYSIOLOGY AND CLINICAL FEATURES OF SEVERE MALARIA IN MALAWIAN CHILDREN

Terrie Taylor
Michigan State University, Michigan, United States

9 a.m.

PATHOPHYSIOLOGICAL AND CLINICAL FEATURES OF SEVERE MALARIA IN ADULTS

Nicholas P. Day
Mahidol University, Faculty of Tropical Medicine, Bangkok, Thailand

9:15 a.m.

MANAGEMENT OF SEVERE MALARIA

Arjen Dondorp
Mahidol University, Faculty of Tropical Medicine, Bangkok, Thailand

9:30 a.m.

GENERAL DISCUSSION AND QUESTIONS

Malcolm Molyneux
Blantyre Malaria Project, Blantyre, Malawi

Tuesday, December 9

Symposium 57

Operation Research During Control of Schistosomiasis in Africa

Rhythms I

Tuesday, December 9, 8 a.m. – 9:45 a.m.

Since 2003, the Schistosomiasis Control Initiative (SCI) has assisted eight sub-Saharan African countries to develop sustainable schistosomiasis morbidity control programs. The monitoring and evaluation plan involves annual follow up of the cohorts and is therefore generating data to prove whether the control objectives have been met. Two speakers will present results which assess the health impact of control programs on a large scale in several countries, including infection status for *Schistosoma mansoni* and *Schistosoma haematobium*, haemoglobin levels, anaemia, nutritional status, ultrasound and clinical examination morbidity, before and after chemotherapeutic treatment. The integration of preventive chemotherapy programs targeting multiple neglected tropical diseases (NTDs) with similar strategic approaches offers further opportunities for estimation of health outcomes of integrated programs and some preliminary results will be presented. The next speaker will discuss how large-scale chemotherapeutic control programs exert prolonged new selection pressures on parasites with the resulting fear of the emergence of drug resistance. It will be shown that population genetic studies on schistosomes using recently developed neutral microsatellites can provide insights into the effects of such mass chemotherapeutic control programs and the transmission and clinical processes of the disease. Results will be presented for the population genetics of both *S. mansoni* and *S. haematobium* from several sub-Saharan countries. Finally, knowing that the pattern of human helminth infections, such as schistosomiasis, within a community, typically display heterogeneities in infection rates, infection intensity and development of morbidity, the final presenter will propose that capturing these heterogeneities is crucial in order to more accurately monitor control programs and predict their future course.

CHAIR

Alan Fenwick
Imperial College London, London, United Kingdom

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

8 a.m.

INTRODUCTION

Alan Fenwick
Imperial College London, London, United Kingdom

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

8:20 a.m.

MONITORING AND EVALUATION OF SCHISTOSOMIASIS AND INTEGRATED CONTROL PROGRAMS IN SUB-SAHARAN AFRICA

Artemis Koukounari
Schistosomiasis Control Initiative, London, United Kingdom

8:40 a.m.

PREDICTORS OF ANAEMIA IN ZAMBIA

Nadine Seward
Schistosomiasis Control Initiative, Imperial College Faculty of Medicine, London, United Kingdom

9 a.m.

POPULATION GENETICS OF *S. MANSONI* AND *S. HAEMATOBIIUM* LINKED TO PRAZIQUANTEL DRUG PRESSURE IN AFRICA

Alice Norton
Schistosomiasis Control Initiative, Imperial College London, London, United Kingdom

9:20 a.m.

THE DEVELOPMENT OF SCHISTOSOMIASIS TRANSMISSION MODELS: CAPTURING INHERENT HETEROGENEITIES

Michael French
Schistosomiasis Control Initiative, London, United Kingdom

Symposium 58

Plasmodium-Mosquito Interactions

Rhythms III/III

Tuesday, December 9, 8 a.m. – 9:45 a.m.

Transmission of *Plasmodium*, the causative agent of malaria, is entirely dependent on its successful development in its mosquito vector. Thus, this part of the life cycle is a potential weak link in the transmission chain. Traditional control measures are either only partially effective (drugs, insecticides) or extremely hard to develop (vaccines). These considerations emphasize the importance of understanding parasite-insect vector interactions because such knowledge could lead to the development of novel control strategies. Exciting new discoveries are being made in this area of knowledge and the symposium will highlight some of these advances. Speakers will be asked to relate their discoveries to potential new strategies for disease control.

CHAIR

Marcelo Jacobs-Lorena
Johns Hopkins School of Public Health, Baltimore, MD, United States

8 a.m.

A MASTER TRANSCRIPTION FACTOR THAT CONTROLS GENE EXPRESSION IN THE MOSQUITO-INVASIVE STAGE OF MALARIA PARASITES

Masao Yuda
Mie University, Mie, Japan

8:25 a.m.

THE MOLECULAR REPERTOIRE OF MOSQUITO HEMOCYTES AND THEIR INFLUENCE OF MALARIA PARASITE TRANSMISSION

Kristin Michel
Kansas State University, Manhattan, KS, United States

8:50 a.m.

HOW DOES PLASMODIUM EVADE THE MOSQUITO'S IMMUNE SYSTEM?

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

9:15 a.m.

VIRAL PARATRANSGENESIS AND MALARIA CONTROL IN *ANOPHELES GAMBIAE*

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



Symposium 59

Integration of Mosquito Foraging in Management of Vector-Borne Diseases

Waterbury

Tuesday, December 9, 8 a.m. – 9:45 a.m.

Female mosquitoes need to find resources (hosts and oviposition sites) for completing the gonotrophic cycle. Foraging ecology of mosquitoes is important for understanding of interactions between hosts and mosquitoes. Recently, attention has been drawn to examine impacts of control interventions, such as insecticide-treated bednets and source reduction on mosquito foraging. This symposium represents both theoretic and experimental advances to highlight variability of resource-seeking patterns and implications on prevention and control of mosquito-borne diseases.

CHAIR

Weidong Gu
University of Alabama, Birmingham, Birmingham, United States

8 a.m.

LOCAL SCALE PATTERNS OF HOST SEEKING AND FEEDING AND IMPLICATIONS FOR PATHOGEN TRANSMISSION

A. Marm Kilpatrick
Consortium for Conservation Medicine, New York, United States

8:25 a.m.

AN AGENT-BASED MODEL OF MOSQUITO FORAGING FOR INTEGRATED MALARIA MANAGEMENT

Weidong Gu
University of Alabama, Birmingham, Birmingham, United States

8:50 a.m.

TESTING THE IMPORTANCE OF HABITAT SELECTION IN DETERMINING THE SPATIAL DISTRIBUTION OF MOSQUITO POPULATIONS: IMPLICATIONS FOR MANAGEMENT

Alicia Ellis
University of North Carolina, Charlotte, United States

9:15 a.m.

FOCUSING VECTOR INTERVENTIONS ON THE HOME FOR PREVENTION OF DENGUE

Thomas W. Scott
University of California, Davis, United States

Symposium 60

Expanding ACT Reach in the Private Sector

Napoleon A123

Tuesday, December 9, 8 a.m. – 9:45 a.m.

Over 40 percent of the world's inhabitants are at risk from malaria. Millions of children continue to fall prey to this dreaded disease. Among the many reasons for this unacceptable statistic is the fact that patients and caregivers have sorely limited access to high quality, effective treatment, particularly in private sector outlets where 40-60 percent of people buy their medicines. Are ACTs reaching people in Africa today? If not, why not? How can access to ACTs be facilitated? What are the challenges that must be overcome to ensure easy access of ACTs to malaria sufferers? Will a new, innovative mechanism in the form of a global subsidy ensure affordability, and thus access? What challenges still need to be overcome? Medicines for Malaria Venture (MMV) brings together international players in the field of access to antimalarials, as well as representatives from national malaria programs in Africa to share an overview of the status of access to effective antimalarials in Africa.

CHAIR

Francisco Songane
Partnership for Maternal, Newborn and Child Health, Geneva, Switzerland

George Jagoe
Medicines for Malaria Venture, Geneva, Switzerland

8 a.m.

PRIVATE SECTOR IN ACCESS: STRATEGIES FOR ENGAGEMENT AND CHALLENGES

Gladys Tetteh
MSH, Nairobi, Kenya

8:15 a.m.

DISPLACING INEFFECTIVE ANTIMALARIALS: FINDINGS FROM THE MOH-CHAI PILOT IN TANZANIA

Renata Mandike
Ministry of Health, Dar es Salaam, United Republic of Tanzania.

8:30 a.m.

ENSURING RESPONSIBLE ACCESS TO ACTS: FINDINGS FROM THE MOH-MMV LED UGANDA PILOT

Ambrose Talisuna
Medicines for Malaria Venture (MMV), Geneva, Switzerland

8:45 a.m.

MAKING ANTIMALARIALS MORE USER-FRIENDLY: DESIGNING APPROPRIATE PACKAGING

Susan Mukasa
PSI Uganda, Kampala, Uganda

9 a.m.

PANEL DISCUSSION AND WRAP-UP

Scientific Session 61**Bacteriology II – Diarrhea: Epidemiology and Treatment***Maurepas***Tuesday, December 9, 8 a.m. – 9:45 a.m.****CHAIR**

Karen Levy

Stanford University, San Francisco, CA, United States

Theresa J. Ochoa

*Baylor College of Medicine, Houston, TX, United States***8 a.m.****364****SEASONALITY, WATER QUALITY VARIABILITY AND DIARRHEAL DISEASE IN NORTHERN COASTAL ECUADOR****Karen Levy¹**, Alan Hubbard², Kara Nelson², Joseph Eisenberg³
¹*Stanford University, Stanford, CA, United States*, ²*UC Berkeley, Berkeley, CA, United States*, ³*University of Michigan, Ann Arbor, MI, United States***8:15 a.m.****365****SHIFTING PREVALENCE OF MAJOR DIARRHEAL PATHOGENS IN PATIENTS SEEKING HOSPITAL CARE DURING FLOODS IN 1998, 2004, AND 2007 IN DHAKA, BANGLADESH****Aaron M. Harris¹**, Fahima Chowdhury², Yasmin Ara Begum², Abu S. Faruque², Ann-Mari Svennerholm³, Jason B. Harris⁴, Edward T. Ryan⁴, Alejandro Cravioto², Stephen B. Calderwood⁴, Firdausi Qadri²¹*Tufts University School of Medicine, Boston, MA, United States*, ²*International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh*, ³*The Sahlgrenska Academy at University of Gothenburg, Goteborg, Sweden*, ⁴*Massachusetts General Hospital, Boston, MA, United States***8:30 a.m.****366****SHIGA TOXIN GENE TYPES OF SHIGA TOXIN-PRODUCING ESCHERICHIA COLI (STEC) ISOLATED FROM PERUVIAN CHILDREN****Carmen A. Contreras¹**, Theresa J. Ochoa², Francesca Barletta², Nelly Zavaleta³, Claudio F. Lanata³, Thomas G. Cleary⁴¹*Universidad Nacional Mayor de San Marcos, Lima, Peru*, ²*Universidad Peruana Cayetano Heredia, Lima, Peru*, ³*Instituto de Investigación Nutricional, Lima, Peru*, ⁴*University of Texas School of Public Health, Huston, TX, United States***8:45 a.m.****367****AGE-RELATED SUSCEPTIBILITY TO INFECTION WITH DIARRHEAGENIC E. COLI****Lucie Ecker¹**, Theresa J. Ochoa², Francesca Barletta², Monica Mispireta¹, Ana I. Gil¹, Isabel Amemiya¹, Hector Verastegui¹, Eric Hall³, Thomas G. Cleary⁴, Claudio F. Lanata¹¹*Instituto de Investigación Nutricional, Lima, Peru*, ²*Universidad Peruana Cayetano Heredia, Lima, Peru*, ³*Naval Medical Research Center Detachment, Lima, Peru*, ⁴*University of Texas Health Science Center, Houston, TX, United States***9 a.m.****368****FACTORS ASSOCIATED WITH ORAL REHYDRATION THERAPY UTILIZATION FOR CHILDHOOD DIARRHEA MANAGEMENT AMONG PRIMARY HOUSEHOLD CAREGIVERS — ASEMBO, KENYA 2007****Christine K. Olson¹**, Lauren S. Blum², Kinnery Naik¹, Prisca Oria², Alice Mathingau², Beatrice Odidi², Daniel Feikin², Kayla Laserson³, Anna W. Wamae⁴, Robert F. Breiman², Pavani K. Ram⁵¹*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ²*International Emerging Infections Program, Centers for Disease Control and Prevention/Kenya Medical Research Institute, Kisumu, Kenya*, ³*Centers for Disease Control and Prevention/Kenya Medical Research Institute – Centre for Global Health Research, Kisumu, Kenya*, ⁴*Republic of Kenya Ministry of Health, Nairobi, Kenya*, ⁵*University at Buffalo, Buffalo, NY, United States***9:15 a.m.****369****MANAGEMENT OF DIARRHEAL ILLNESS IN YOUNG CHILDREN OF RURAL WESTERN KENYA – FINDINGS FROM A HEALTH UTILIZATION AND ATTITUDES SURVEY, 2007****Kavita K. Trivedi¹**, Richard Omore², Elizabeth Blanton¹, Kubaje Adazu², John Vulule³, Kayla Laserson², John A. Crump¹, Myron M. Levine⁴, Karen Kotloff⁴, Annemieke van Eijk⁴, Eric D. Mintz¹, Ciara E. O'Reilly¹, Robert F. Breiman⁵¹*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ²*Kenya Medical Research Institute/Centers for Disease Control and Prevention, Kisumu, Kenya*, ³*Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya*, ⁴*University of Maryland School of Medicine, Center for Vaccine Development, Baltimore, MD, United States*, ⁵*Kenya Medical Research Institute/Centers for Disease Control and Prevention, Nairobi, Kenya*



9:30 a.m.

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FACTORS ASSOCIATED WITH RECOMMENDATION OF ORAL REHYDRATION THERAPY FOR DIARRHEA TREATMENT AMONG HEALTH WORKERS IN KENYA, 2007

Kinnery Naik¹, Christine K. Olson¹, Amy L. Boore¹, Lauren S. Blum², Alice Mathingau², Beatrice Odidi², Kayla F. Laserson³, Daniel R. Feikin², Annah W. Wamae⁴, Robert F. Breiman², Pavani Kalluri Ram⁵

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²International Emerging Infections Program, CDC/KEMRI, Kisumu, Kenya, ³CDC/KEMRI – Centre for Global Health Research, Kisumu, Kenya, ⁴Republic of Kenya Ministry of Health, Nairobi, Kenya, ⁵University at Buffalo, Buffalo, NY, United States

Symposium 62

Liver Fluke Infection Induces Cholangiocarcinoma

Bayside A

Tuesday, December 9, 8 a.m. – 9:45 a.m.

Throughout East Asia, there is a strikingly high prevalence of cholangiocarcinoma (CCA) in regions where *Opisthorchis viverrini* liver fluke infection is endemic. CCA is extremely prevalent in Northeast Thailand, where uncooked cyprinoid fish is often a dietary staple. These fish are the intermediate hosts of the liver flukes. Despite widespread administration of praziquantel, the prevalence of *O. viverrini* approaches 70 percent in Northeast Thailand and Laos. Moreover, in Thailand, liver cancer is the most prevalent of the fatal tumors, and rates of CCA in regions where the parasite is endemic are unprecedented — CCA is responsible for about 19 percent of liver cancers in the U.S.A. but represents 71 percent of cancers in Thailand's Khon Kaen region, the highest incidence in the world. *O. viverrini* infection induces inflammation of the bile ducts, resulting in oxidative DNA damage of the epithelium and subsequent malignant transformation to CCA. Experimental infections of hamsters with *O. viverrini* corroborate findings in human infections. Secreted fluke proteins stimulate biliary epithelial cells to hyper-proliferate but not undergo apoptosis, providing an additional potential mechanism by which epithelial cells become neoplastic. The symposium will address these issues and additional recent findings related to *O. viverrini*-associated liver cancer.

CHAIR

Paul J. Brindley
George Washington University Medical Center, Washington DC, United States

Banchob Sripa
Khon Kaen University, Khon Kaen, Thailand

8 a.m.

MOLECULAR CARCINOGENESIS OF OPISTHORCHIS VIVERRINI INDUCED CHOLANGIOCARCINOGENESIS

Banchob Sripa
Khon Kaen University, Khon Kaen, Thailand

8:25 a.m.

IMMUNOLOGICAL CORRELATES OF HEPATO-BILIARY CHANGES IN HUMAN OPISTHORCHIASIS

Jeffrey M. Bethony
George Washington University, Washington DC, United States

8:50 a.m.

PROTEOMICS OF SECRETED OPISTHORCHIS VIVERRINI ANTIGENS

Alex Loukas
Queensland Institute of Medical Research, Brisbane, Australia

9:15 a.m.

DEVELOPMENTAL REGULATION OF SECRETED FASCIOLA PROTEASES REVEALED BY PROTEOMICS

Mark Robinson
University of Technology Sydney (UTS), Sydney, Australia

Scientific Session 63

Clinical Tropical Medicine I

Bayside BC

Tuesday, December 9, 8 a.m. – 9:45 a.m.

CHAIR

Kubaje Adazu
Centers for Disease Control and Prevention, Kisumu, Kenya

Kevin Baird
Oxford University, Jakarta, Indonesia

8 a.m.

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EXACERBATION OF ANEMIA IN P. FALCIPARUM MALARIA AND GRAM NEGATIVE BACTEREMIA CO-INFECTED CHILDREN IS ASSOCIATED WITH ELEVATED INFLAMMATORY MEDIATORS

Gregory C. Davenport¹, Tom Were², Collins Ouma², James B. Hittner³, John M. Ong'echa², Douglas J. Perkins⁴

¹University of Pittsburgh, Pittsburgh, PA, United States, ²KEMRI Laboratories of Parasitic and Viral Diseases, Centre for Vector Biology and Control Research, Kenya Medical Research Institute, Kisumu, Kenya, ³College of Charleston, Charleston, SC, United States, ⁴University of New Mexico, Albuquerque, NM, United States

8:15 a.m.

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MARKED DECLINE IN CHILDHOOD MORTALITY IN THE WESTERN KENYA DSS: EVIDENCE FROM LONGITUDINAL DATA, 2003-2007

Kubaje Adazu¹, Mary Hamel¹, Daniel Feikin¹, Peter Ofware¹, David Obor¹, Sheila Ogwang¹, Vincent Orimba¹, John Vulule², Laurence Slutsker³, Kayla Laserson¹

¹KEMRI/CDC Field Research Station, Kisumu, Kenya, ²KEMRI CGHR, Kisumu, Kenya, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

8:30 a.m.

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AN OPERATIONAL MALARIA OUTBREAK IDENTIFICATION AND RESPONSE SYSTEM IN MPUMALANGA PROVINCE, SOUTH AFRICA

Marlize Coleman¹, Michael Coleman², Maureen Coetzee³, Aaron Mabuza⁴, Gerdalize Kok⁴, David Durrheim⁵

¹Colorado State University, Ft. Collins, CO, United States, ²Medical Research Council, South Africa, Durban, South Africa, ³University of the Witwatersrand, Johannesburg, South Africa, ⁴Mpumalanga Department of Health, Nelspruit, South Africa, ⁵Hunter New England Population Health and Hunter Medical Research Institute, Wallsend, Australia

Tuesday, December 9

8:45 a.m.

374

A PHASE 2, OPEN LABEL, NON-COMPARATIVE TRIAL OF AZITHROMYCIN 2G PLUS CHLOROQUINE 600 MG BASE DAILY FOR THREE DAYS FOR THE TREATMENT OF UNCOMPLICATED PLASMODIUM FALCIPARUM MALARIA

Richa Chandra¹, Drew Lewis², Diego Moran³, Nagesh Dubhashi⁴, Shrisendu Sarkar⁵, Cunshan Wang¹, Jenny Cai¹, Michael Dunne¹

¹Pfizer Inc., New London, CT, United States, ²Pfizer Inc., New York, NY, United States, ³Hospital San Andres de Tumaco, Colombia, Narino, Colombia, ⁴Goa Medical College, Bambolim, Goa, India, ⁵Pfizer Inc., Mumbai, India

9 a.m.

375

EPIDEMIOLOGY OF IMPORTED MALARIA IN HOUSTON CHILDREN: 1994-2007

Gloria E. Oramasionwu¹, Susan H. Wootton², Morven S. Edwards¹

¹Baylor College of Medicine, Houston, TX, United States, ²University of Texas Health Science Center at Houston, Houston, TX, United States

9:15 a.m.

376

PROSPECTIVE ANALYSIS OF HOSPITAL ADMISSIONS, DIAGNOSIS, DISEASE AND OUTCOMES FOR MALARIA IN JAYAPURA, PAPUA, INDONESIA

Yohana Sorontou¹, Samuel Baso², Abdul Rohim², Puji B. Asih³, Din Syafruddin³, Robert W. Taylor⁴, **J. Kevin Baird**⁵

¹Cendrawasih University, Jayapura, Papua, Indonesia, ²Dok II Hospital, Internal Medicine, Jayapura, Papua, Indonesia, ³Eijkman Institute, Jakarta, Indonesia, ⁴Oxford University, Hanoi, Vietnam, ⁵Eijkman Oxford Clinical Research Unit, Jakarta, Indonesia

9:30 a.m.

377

A RANDOMISED TRIAL OF AN EIGHT-WEEK, ONCE WEEKLY PRIMAQUINE REGIMEN TO PREVENT RELAPSE OF PLASMODIUM VIVAX IN PAKISTAN

Toby Leslie¹, Ismail Mayan², Nasir Mohammed², Panna Erasmus², Jan Kolaczinski¹, Christopher J. Whitty¹, Mark Rowland¹

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²HealthNet-TPO, Peshawar, Pakistan

Symposium 64

Combining Vector and Disease Data for Improved Assessment of Vector-Borne Disease Risk

Grand Ballroom A

Tuesday, December 9, 8 a.m. – 9:45 a.m.

The symposium will focus on cross-disciplinary approaches that incorporate data for both arthropod vectors and human disease to deliver improved assessments of vector-borne disease risk. As noted in the 2008 Institute of Medicine Workshop Summary for "Vector-Borne Diseases: Understanding the Environmental, Human Health, and Ecological Connections," there has been a tendency in the research community to stovepipe Geographic Information System-based risk modeling approaches for vector-borne diseases to either vector data or epidemiologic data. This is highly unfortunate because vector and disease data not only have different weaknesses, but also complementary strengths. For example, although the location of sampling sites for vectors readily can be georeferenced, human behavior often impacts risk of vector and pathogen contact. On the other hand, a human disease case, which unequivocally demonstrates contact with an infected vector, often is accompanied by questionable information regarding the probable vector and pathogen exposure site. To overcome these issues, models combining independently derived estimates for vector risk and epidemiologic risk are needed. The symposium will explore the potential for developing risk models and risk maps that include both vector and disease data, and will include examples from a wide range of diseases of public health importance in the Americas and elsewhere (dengue, Lyme disease, malaria, plague, tularemia, West Nile virus disease).

CHAIR

Lars Eisen

Colorado State University, Fort Collins, CO, United States

8 a.m.

COMBINING VECTOR AND DISEASE DATA FOR IMPROVED ASSESSMENT OF RISK OF BACTERIAL VECTOR-BORNE DISEASES: LYME DISEASE, PLAGUE AND TULAREMIA

Rebecca J. Eisen

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

8:25 a.m.

COMBINING VECTOR AND DISEASE DATA FOR IMPROVED ASSESSMENT OF DENGUE RISK

Amy C. Morrison

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

8:50 a.m.

COMBINING VECTOR AND DISEASE DATA FOR IMPROVED ASSESSMENT OF MALARIA RISK

Michael Coleman

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

9:15 a.m.

COMBINING VECTOR AND DISEASE DATA FOR IMPROVED ASSESSMENT OF WEST NILE VIRUS DISEASE RISK

Lars Eisen

Colorado State University, Fort Collins, CO, United States



Scientific Session 65

Filariasis I – Immunology

Grand Ballroom B

Tuesday, December 9, 8 a.m. – 9:45 a.m.

CHAIR

Edward Mitre

National Institutes of Health, Bethesda, MD, United States

Sabine Specht

University Hospital Bonn, Bonn, Germany

8 a.m.

378

BASOPHILS AND IGE AMPLIFY THE IMMUNE RESPONSE TOWARDS *LITOMOSOIDES SIGMODONTIS*

Marina N. Torrero, Marc P. Hübner, Edward Mitre
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

8:15 a.m.

379

INDUCTION OF TRAIL- AND TNF-A-DEPENDENT APOPTOTIC CELL DEATH IN HUMAN MONOCYTE-DERIVED DENDRITIC CELLS BY *BRUGIA MALAYI*

Roshanak Tolouei Semnani¹, Priyanka Goel Venugopal¹, Lily Mahapatra¹, Jason Skinner², Françoise Meylan¹, Damien Chaussabel², Richard M. Siegel¹, Thomas B. Nutman¹
¹National Institutes of Health, Bethesda, MD, United States, ²Baylor Institute for Immunology Research, Dallas, TX, United States

8:30 a.m.

380

ANTI-WOLBACHIA ANTIBODIES MAY DECREASE THE LIKELIHOOD OF ACUTE ADENOLYMPHANGITIS IN LYMPHATIC FILARIASIS

Edsel Maurice T. Salvana¹, Katrin Daehnel², Amy G. Hise³, Eric Pearlman², Daniel J. Tisch³, James W. Kazura³
¹Division of Infectious Diseases and HIV Medicine, University Hospitals Case Medical Center and Case Western Reserve University, Cleveland, OH, United States, ²Department of Ophthalmology, University Hospitals Case Medical Center and Case Western Reserve University, Cleveland, OH, United States, ³Center for Global Health and Diseases, Case Western Reserve University, Cleveland, OH, United States

(ACMCIP Abstract)

8:45 a.m.

381

FILARIAL LYMPHATIC PATHOLOGY IS CHARACTERIZED BY AUGMENTED PRO-INFLAMMATORY CYTOKINE PRODUCTION IN RESPONSE TO TLR2 AND TLR9 LIGANDS

Subash Babu¹, Sajid Bhat¹, Pavan Kumar¹, C. Kolappan², V. Kumaraswami², Thomas B. Nutman³
¹National Institutes of Health-TRC-International Center for Excellence in Research, Chennai, India, ²Tuberculosis Research Center, Chennai, India, ³National Institutes of Health, Bethesda, MD, United States

(ACMCIP Abstract)

9 a.m.

382

ELEVATED PLASMA ANGIOGENIC AND LYMPHANGIOGENIC FACTORS ARE ASSOCIATED WITH INFECTION PER SE RATHER THAN CLINICALLY APPARENT DISEASE IN HUMAN FILARIAL INFECTION

Sasisekhar Bennuru¹, Grace Maldarelli¹, Kumaraswami V², Thomas B. Nutman¹
¹National Institutes of Health, Bethesda, MD, United States, ²Tuberculosis Research Centre, Chennai, India

9:15 a.m.

383

INCREASED IMMUNE STIMULATION AFTER MACROFILARICIDAL THERAPY

Sabine Specht¹, Sabine Mand¹, Alexander Y. Debrah², Yeboah M. Debreyei², Ohene Adjei², Frank Geisinger³, Norbert W. Brattig³, Achim Hoerauf¹
¹Institute for Medical Microbiology, Immunology and Parasitology, University Hospital, Bonn, Germany, ²Kumasi Centre of Collaborative Research, Kumasi, Ghana, ³Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

(ACMCIP Abstract)

Tuesday, December 9

9:30 a.m.

384

A LOA/BABOON MODEL FOR INVESTIGATING THE MECHANISMS OF ENCEPHALOPATHY FOLLOWING IVERMECTIN ADMINISTRATION

Samuel Wanji¹, Nicholas Tendongfor¹, Julius Che¹, Ebangha Joan Eyong¹, Jonas Moafo¹, Elive Ngalle¹, Peter Enyong¹, Charles Mackenzie²
¹University of Buea, Buea, Cameroon, ²Michigan State University, East Lansing, MI, United States

Scientific Session 66

Flavivirus III – Dengue III

Grand Ballroom C

Tuesday, December 9, 8 a.m. – 9:45 a.m.

CHAIR

Eva Harris
 University of California, Berkeley, Berkeley, CA, United States
 Daniel Libraty
 University of Massachusetts Medical School, Worcester, MA, United States

8 a.m.

385

DENGUE AND THE DEMOGRAPHIC TRANSITION

Derek A. Cummings¹, Sapon Iamsirithaworn², Justin Lessler¹, Rungnapa Prasanthong², Richard G. Jarman³, Donald S. Burke⁴, Robert V. Gibbons⁵
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Ministry of Public Health, Nonthaburi, Thailand, ³Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁴University of Pittsburgh Graduate School of Public Health, Pittsburgh, PA, United States, ⁵Armed Forces Institute of Medical Sciences, Bangkok, Thailand

8:15 a.m.

386

SAFETY AND IMMUNOGENICITY IN CHILDREN AND ADULTS FROM ENDEMIC COUNTRIES AND ADULTS FROM NONENDEMIC COUNTRIES OF A TETRAVALENT, LIVE ATTENUATED DENGUE VACCINE

Alain Bouckennooghe¹, Maria R. Capeding², Dennis N. Morrison³, Jorge L. Poo⁴, Jean Lang⁵, Laurent Chambonneau⁵, Remi Forrat⁵
¹Sanofi Pasteur, Swiftwater, PA, United States, ²Research Institute for Tropical Medicine, Muntinlupa City, Philippines, ³Bio-Kinetic Clinical Applications, Springfield, MO, United States, ⁴Hospital Medica Sur, México City, Mexico, ⁵Sanofi Pasteur, Marcy l'Etoile, France

8:30 a.m.

387

IMMUNE RESPONSE TO TETRAVALENT DENGUE VACCINATION IN MEXICAN SUBJECTS: THE EFFECTS OF YELLOW FEVER VACCINATION

Remi Forrat¹, Jorge L. Poo², Juan F. Galán Herrera²
¹Sanofi Pasteur, Lyon, France, ²CIF-BIOTEC Médica Sur, Mexico City, Mexico

8:45 a.m.

388

INCIDENCE OF SYMPTOMATIC AND SUBCLINICAL DENGUE IN A FOUR-YEAR PEDIATRIC COHORT STUDY IN NICARAGUA

Guillermina Kuan¹, Angel Balmaseda², Aubree Gordon³, Oscar Ortega⁴, Nicole Fitzpatrick⁴, William Avilés⁴, Crisanta Rocha⁵, Andrea Nuñez², Josefina Coloma³, **Eva Harris**³
¹Socrates Flores Vivas Health Center, Managua, Nicaragua, ²Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua, ³Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ⁴Sustainable Sciences Institute, Managua, Nicaragua, ⁵Hospital Infantil Manuel Jesús de Rivera, Managua, Nicaragua

9 a.m.

389

A PROSPECTIVE STUDY OF PRIMARY DENGUE VIRUS INFECTIONS DURING INFANCY: PRELIMINARY FINDINGS

Daniel H. Libraty¹, Rosario M. Capeding², Luz Acosta², Veronica Tallo², Edel Mercado², Analisa Bautista², Richard G. Jarman³, In-Kyu Yoon³, Robert V. Gibbons³, Job D. Brion⁴
¹University of Massachusetts Medical School, Worcester, MA, United States, ²Research Institute for Tropical Medicine, Manila, Philippines, ³Armed Forces Research Institute for Medical Sciences, Bangkok, Thailand, ⁴San Pablo City Health Office, San Pablo, Philippines

9:15 a.m.

390

SUBSTANTIAL UNDERREPORTING OF DENGUE DEATHS IN AN ASIAN DENGUE ENDEMIC COUNTRY

Jose A. Suaya, Donald S. Shepard
 Heller School, Brandeis University, Waltham, MA, United States

9:30 a.m.

391

AN ESTIMATION OF THE DISEASE AND ECONOMIC BURDEN OF DENGUE IN SOUTHERN VIETNAM

Laurent Coudeville¹, Laurence Pollissard¹, Quang Luong Chan², Trong Toan Nguyen², Huong Vu Thi Que², Christine Luxemburger¹, Kim Tien Nguyen Thi²
¹Sanofi Pasteur, Lyon, France, ²Pasteur Institute, Ho Chi Minh City, Vietnam

Scientific Session 67**Global Health Symposium on Tropical Medicine****Supported with funding from the Bill & Melinda Gates Foundation***Grand Ballroom D***Tuesday, December 9, 8 a.m. - 9:45 a.m.**

This symposium features young investigators from Senegal, Brazil, Peru and Thailand who have received travel awards to present their work on malaria, leptospirosis, leishmania and filariasis at the annual meeting.

CHAIR

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

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

8:15 a.m.**1219****HUMAN ANTIBODY RESPONSE TO ANOPHELES GAMBIAE SALIVA: A NEW IMMUNO-EPIDEMIOLOGICAL MARKER TO EVALUATE THE EFFECTIVENESS OF INSECTICIDES TREATED NETS (ITNS)?**

Papa Makhtar Drame¹, Anne Poinsignon², Patrick Besnard³, Sylvie Cornélie², Vincent Foumane⁴, Cheikh Saya Sow¹, Jacques Le Mire⁵, Filomena Fortes⁶, Denis Boulanger², Pierre Carnevale², Francois Simondon², Franck Remoue¹

¹*Institut de Recherche pour le Developpement, Dakar, Senegal,*

²*Institut de Recherche pour le Developpement, Montpellier, France,* ³*Service Médical Sonamet, Lobito, Angola,* ⁴*Organisation de Coordination pour la lutte contre les Endémies en Afrique Centrale (OCEAC), Yaoundé, Cameroon,* ⁵*Service Médical Clinique Sonamet, Lobito, Angola,* ⁶*Malaria Control Program, Luanda, Angola*

8:30 a.m.**444****LEPTOSPIROSIS IN SAO PAULO, BRAZIL: EVEN MORE FULMINANT, EVEN MORE A PULMONARY DISEASE**

Anne Spichler¹, Daniel Athanazio², Pedro Vilaca¹, Erica Chapolla¹, Marcia Buzzar¹, Bronislawa Castro¹, Antonio Seguro¹

¹*Health Municipality Secretariat of Sao Paulo, Sao Paulo, Brazil,*²*Federal University of Bahia, Salvador, Brazil***8:45 a.m.****559****ANALYSIS OF GENE EXPRESSION AND EVOLUTIONARY PROCESS IN LEISHMANIA (VIANNIA) BRAZILIENSIS AND LEISHMANIA (VIANNIA) PERUVIANA MODEL****Dionicia Gamboa***Instituto de Medicina Tropical, Lima, Peru***(ACMCIP Abstract)****9 a.m.****526****ASSOCIATION OF TOLL-LIKE RECEPTOR 2 (TLR2) GENE POLYMORPHISMS WITH BANCROFTIAN FILARIASIS**

Alisa Junpee, Vivornpun Sanprasert, Surang Nuchprayoon
Lymphatic Filariasis Research Unit, Department of Parasitology, and Chulalongkorn Medical Research Center (Chula MRC), Chulalongkorn University, Bangkok, Thailand

(ACMCIP Abstract)**9:15 a.m.****1212****CHARACTERIZATION OF NATURALLY ACQUIRED ANTIBODIES TO PFRH DOMAINS AND DETERMINATION OF THEIR FUNCTIONAL INHIBITORY ACTIVITY**

Ambroise D. Ahouidi¹, Amy K. Bei², Ousmane Sarr¹, Daouda Ndiaye¹, Omar Ndir¹, Dyann Wirth², Souleymane Mboup¹, Mano T. Duraisingh²

¹*Le Dantec Hospital and Cheikh Anta Diop, Dakar, Senegal,*²*Harvard School of Public Health, Boston, MA, United States***(ACMCIP Abstract)****9:30 a.m.****PANEL DISCUSSION****Scientific Session 68****Malaria – Diagnosis***Grand Ballroom E***Tuesday, December 9, 8 a.m. – 9:45 a.m.****CHAIR**

Catherine O. Falade
College of Medicine, University of Ibadan, Ibadan, Nigeria

Naomi W. Lucchi
Centers for Disease Control and Prevention, Chamblee, GA, United States

8 a.m.**392****EVALUATION OF THREE DIFFERENT PCR BASED ASSAYS FOR MALARIA DIAGNOSIS AND SPECIATION**

Naomi W. Lucchi, Tonya Mixon, Venkatachalam Udhayakumar
Centers for Disease Control and Prevention, Chamblee, GA, United States

8:15 a.m.**393****IMMUNOCHROMATOGRAPHIC DETECTION OF PLASMODIUM FALCIPARUM INFECTION USING HUMAN SALIVA AND URINE SAMPLES**

Sungano Mharakurwa¹, Mtawa A. Mkulama¹, Sandra Chishimba¹, Jay Sikalima¹, Clive J. Shiff², David J. Sullivan², Philip E. Thuma¹

¹*The Malaria Institute at Macha, Choma, Zambia,* ²*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*

8:30 a.m.

394

LOW QUALITY OF ROUTINE MICROSCOPY FOR MALARIA AT DIFFERENT HEALTH SYSTEM LEVELS IN DAR ES SALAAM: RAPID DIAGNOSTIC TESTS SHOULD ALSO BE IMPLEMENTED IN HOSPITALS AND URBAN SETTINGS

Judith Kahama-Maró¹, Valérie D'Acromont¹, Deo Mtasiwa², Blaise Genton³, Christian Lengeler⁴

¹City Medical Office of Health, Dar es Salaam City Council, United Republic of Tanzania, ²Ministry of Health and Social Welfare, Dar es Salaam, United Republic of Tanzania, ³Ifakara Health Research and Development Center, Dar es Salaam, United Republic of Tanzania, ⁴Swiss Tropical Institute, Basel, Switzerland

8:45 a.m.

395

EFFECTIVENESS AND SAFETY OF TRAINING IN FEVER CASE MANAGEMENT AND RDT USE AT HEALTH CENTERS IN UGANDA

Heidi Hopkins¹, Alex Ojaku², Adoke Yeka³, Patrick Angutoko³, John Ategeka³, Robert Okiror³, Peter Olwoch³, Umaru Ssekabira², Carol Asiimwe⁴, Jane Nabakooza⁵, John B. Rwakimari⁵, Lydia Mpanga Sebuyira⁶, Fred Wabwire Mangen⁷, Grant Dorsey¹

¹University of California, San Francisco, San Francisco, CA, United States, ²Joint Uganda Malaria Training Program, Kampala, Uganda, ³Uganda Malaria Surveillance Project, Kampala, Uganda, ⁴Malaria Consortium, Kampala, Uganda, ⁵Uganda Ministry of Health, Malaria Control Programme, Kampala, Uganda, ⁶Infectious Diseases Institute, Makerere University, Kampala, Uganda, ⁷Makerere University School of Public Health, Kampala, Uganda

9 a.m.

396

DECREASING TRENDS IN COMMUNITY-REPORTED FEVER AND HEALTH FACILITY MALARIA DIAGNOSES IN THE IFAKARA DSS (TANZANIA)

Sandra Alba¹, Manuel Hetzel¹, Angel Dillip¹, Iddy Mayumana¹, Christian Lengeler², Mathew Alexander¹, Rose Nathan¹, Brigit Obrist², Alexander Schulze³, Flora Kessy¹, Hassan Mshinda¹

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

9:15 a.m.

397

WITHDRAWING ANTIMALARIALS IN FEBRILE CHILDREN WITH A NEGATIVE RAPID DIAGNOSTIC TEST IS SAFE IN A MODERATELY ENDEMIC AREA OF TANZANIA

Valérie D'Acromont¹, Judith Kahama-Maró¹, Deo Mtasiwa², Christian Lengeler³, Blaise Genton⁴

¹City Medical Office of Health, Dar es Salaam City Council, United Republic of Tanzania, ²Ministry of Health and Social Welfare, Dar es Salaam, United Republic of Tanzania, ³Swiss Tropical Institute, Basel, Switzerland, ⁴Ifakara Health Research and Development Center, Dar es Salaam, United Republic of Tanzania

9:30 a.m.

398

MALARIA PARASITEMIA IN BLOOD BANKING IN AN ENDEMIC AREA

Catherine O. Falade, Oyekanmi Nash, Titi S. Akingbola, Obaro S. Michael, Folake Olojede, Olusegun G. Ademowo
University of Ibadan, Ibadan, Nigeria

Exhibit Hall Open

Napoleon Ballroom

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

Coffee Break

Napoleon Ballroom

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

Poster Session B Set-Up

Armstrong Ballroom

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

Poster Session B Viewing

Armstrong Ballroom

Tuesday, December 9, 10:15 a.m. – Noon

Symposium 69

Leprosy Awareness in the U.S

Gallery

Tuesday, December 9, 10:15 a.m. – Noon

This symposium will raise awareness that leprosy does occur in the U.S., primarily within immigrants from countries where the disease is endemic. The epidemiology and unique clinical immunopathological features of HD will be discussed, along with the current concepts in diagnosis and treatment and the services provided by the National Hansen's Disease Programs (NHDP) in Baton Rouge, Louisiana.

CHAIR

James L. Krahenbuhl

National Hansen's Disease Programs, Baton Rouge, LA, United States

David M. Scollard

National Hansen's Disease Programs, Baton Rouge, LA, United States

10:15 a.m.

OVERVIEW OF THE SERVICES PROVIDED TO PRIVATE SECTOR PHYSICIANS BY THE NATIONAL HANSEN'S DISEASE PROGRAMS (NHDP)

James Krahenbuhl

National Hansen's Disease Programs, Baton Rouge, LA, United States



10:30 a.m.

LEPROSY AWARENESS IN THE UNITED STATES

Richard Truman
National Hansen's Disease Programs, Baton Rouge, LA, United States

10:55 a.m.

CLINICAL IMMUNOHISTOPATHOLOGICAL SPECTRUM OF LEPROSY

David M. Scollard
National Hansen's Disease Programs, Baton Rouge, LA, United States

11:20 a.m.

LEPROSY DIAGNOSIS, TREATMENT AND MANAGEMENT OF REACTIONS.

Barbara M. Stryjewska
National Hansen's Disease Programs, Baton Rouge, LA, United States

Scientific Session 70

Intestinal and Tissue Helminths II: Echinococcosis/Hydatidosis

Rhythms I

Tuesday, December 9, 10:15 a.m. – Noon

CHAIR

Enrico Brunetti
University of Pavia, Pavia, Italy

10:15 a.m.

399

IMMUNOLOGICAL AND GENETIC FACTORS AFFECTING HUMAN SUSCEPTIBILITY TO ECHINOCOCCOSIS

Yu R. Yang¹, Magda K. Ellis², Philip S. Craig³, Dominique A. Vuitton⁴, Gail M. Williams⁵, Geoffrey N. Gobert², Tao Sun¹, Donald P. McManus²
¹*Ningxia Medical College, Yinchuan City, Ningxia Hui Autonomous Region, China*, ²*Molecular Parasitology Lab., Queensland Institute of Medical Research, Brisbane, Queensland, Australia*, ³*Biomedical Sciences Research Institute and School of Environment and Life Sciences, University of Salford, Salford, United Kingdom*, ⁴*Universite de Franche-Comte, Besancon, France*, ⁵*School of Population Health, University of Queensland, Brisbane, Queensland, Australia*
(ACMCIP Abstract)

10:30 a.m.

400

ACCELERATED LARVAL GROWTH OF *ECHINOCOCCUS SPP.* IN THE IMMUNODEFICIENT HOST?

Beate Gruener¹, Carmen-Michaela Cretu², Enrico Brunetti³, Collin N. Menezes⁴, Georg Haerter¹, Martin P. Grobusch⁵, Peter Kern¹
¹*University of Ulm, Ulm, Germany*, ²*University of Medicine and Pharmacy, Bucharest, Romania*, ³*University of Pavia, Pavia, Italy*, ⁴*Infectious Diseases Unit, Helen Joseph Hospital, Johannesburg, South Africa*, ⁵*University of Witwatersrand, Johannesburg, South Africa*

10:45 a.m.

401

OBSERVATIONS ON THE CYTODIFFERENTIATION OF *ECHINOCOCCUS MULTILOCULARIS* IN VITRO

Tanya Armstrong¹, Andrew Thompson¹, Peta Clode²
¹*Murdoch University, Perth, Australia*, ²*University of Western Australia, Perth, Australia*

11 a.m.

402

CRITICAL APPRAISAL OF NITAZOXANIDE FOR THE TREATMENT OF ALVEOLAR ECHINOCOCCOSIS

Peter Kern¹, Philippe Abboud², Winfried V. Kern³, August Stich⁴, Solange Bresson-Hadni⁵, Bruno Guerin⁶, Klaus Buttenschoen¹, Beate Gruener¹, Stefan Reuter⁷, Andrew Hemphill⁸
¹*University of Ulm, Ulm, Germany*, ²*University of Rouen, Rouen, France*, ³*University of Freiburg, Freiburg, Germany*, ⁴*Medical Mission Hospital, Würzburg, Germany*, ⁵*University of Besancon, Besancon, France*, ⁶*Centre Hospitalier, Rodez, France*, ⁷*University of Düsseldorf, Düsseldorf, Germany*, ⁸*University of Berne, Berne, Switzerland*

11:15 a.m.

403

GEO-ECOLOGICAL AND SOCIO-ECONOMIC ENVIRONMENTS AFFECTING *ECHINOCOCCUS* TRANSMISSION IN NINGXIA HUI AUTONOMOUS REGION OF CHINA

Yu R. Yang¹, David Pleydell², Philip S. Craig³, Donald P. McManus⁴, Patrick Giraudoux², Gail M. Williams⁵, Jia Gang Guo⁶, Rui Qi Liu¹
¹*Ningxia Medical College, Yinchuan City, Ningxia Hui Autonomous Region, China*, ²*Chrono-environment, Universite de Franche-Comte, UMR CNRS 6249 usc INRA, Besancon, France*, ³*Biomedical Sciences Research Institute and School of Environment and Life Sciences, University of Salford, Salford, United Kingdom*, ⁴*Molecular Parasitology Laboratory, Queensland Institute of Medical Research, Brisbane, Australia*, ⁵*School of Population Health, University of Queensland, Brisbane, Queensland, Australia*, ⁶*National Institute of Parasitic Diseases, Chinese Centre for Disease Control and Prevention, Shanghai, China*
(ACMCIP Abstract)

11:30 a.m.

404

HUMAN HYDATIDOSIS IN SUDAN: IS IT A SPORADIC OR ENDEMIC DISEASE?

Rihab A. Omer¹, Anke Dinkel², Thomas Romig², Ute Mackenstedt², Mohamed Elamin³, Ayman Elnahas⁴, Imad Aradaib⁵, Ibrahim Elmahdi⁶

¹Central Veterinary Research Laboratories, Khartoum, Sudan,

²Institut Für Zoologie, Fachgebiet Parasitologie, Stuttgart,

Germany, ³Elshab Teaching Hospital, Khartoum, Sudan,

⁴Department of Surgery, Faculty of Vet. Med. University of

Khartoum, Khartoum, Sudan, ⁵Department of Medicine, Faculty

of Veterinary Medicine, University of Khartoum, Khartoum,

Sudan, ⁶Institute of Nuclear Medicine, Molecular Biology and

Oncology, University of Gezira, Medani, Sudan

11:45 a.m.

405

TREATMENT OF A LARGE PERITONEAL ECHINOCOCCAL CYST WITH PERCUTANEOUS DRAINAGE AND ALBENDAZOLE

Enrico Brunetti, Giuseppe Mariani, **Francesca Tamarozzi**,

Antonella Grisolia, Carlo Filice

University of Pavia – San Matteo Foundation Hospital, Pavia, Italy

Symposium 71**Vaccine Development for Intracellular Bacteria: Biological Approaches for Stimulating Protective Immunity**

Rhythms IIIIIII

Tuesday, December 9, 10:15 a.m. – Noon

This symposium is designed to review and update participants regarding the history and future of vaccines for intracellular bacterial pathogens of interest to practitioners in tropical medicine and travelers' health. Speakers will consider the strengths and failings of prior and existing vaccines, and will discuss strategic approaches toward defining the immunological basis of protection as an underpinning for rational vaccine design. The main emphasis of the program is to define the conceptual framework by which protective immunity to intracellular bacteria differs from that developed against extracellular bacteria, viruses, and eukaryotic pathogens, and the demonstration of how these principles can be applied to maximize stimulation of immune response critical for protection against bacteria that occupy an intracellular niche. Four important emerging pathogens will serve as platforms for conveying principles and specific disease/vaccine-related information: *Rickettsia* spp., including *Rickettsia prowazekii* (louse-borne typhus) and *Rickettsia rickettsii* (Rocky Mountain spotted fever), *Orientia tsutsugamushi* (scrub typhus), *Coxiella burnetii* (Q fever) and *Burkholderia* spp. (melioidosis and glanders).

CHAIR

J. Stephen Dumler
The Johns Hopkins University School of Medicine, Baltimore, MD, United States

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

10:15 a.m.

RICKETTSIAL VACCINES: SUCCESSES, FAILINGS, AND THE BIOLOGICAL UNDERPINNING FOR STIMULATING PROTECTIVE IMMUNITY BY VACCINATION

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

10:40 a.m.

SCRUB TYPHUS VACCINES: PAST HISTORY AND RECENT DEVELOPMENTS

Allen L Richards
Naval Medical Research Center, Silver Spring, MD, United States

11:05 a.m.

MECHANISMS OF VACCINE-INDUCED PROTECTIVE IMMUNITY AGAINST COXIELLA BURNETII INFECTION

James E. Samuel
Texas A&M Health Science Center, College Station, TX, United States

11:30 a.m.

GLANDERS AND MELIOIDOSIS: SUBUNIT VACCINES AGAINST BURKHOLDERIA SPP.

D. Mark Estes
University of Texas Medical Branch at Galveston, Galveston, TX, United States

Scientific Session 72**Malaria – Molecular Biology**

Waterbury

Tuesday, December 9, 10:15 a.m. – Noon

CHAIR

Amy M. McHenry
University of Notre Dame, Notre Dame, IN, United States

Jonathan Mwangi
University of Glasgow, Glasgow, United Kingdom

10:15 a.m.

406

HIGH-THROUGHPUT GENOTYPING AND POPULATION GENOMICS OF P. FALCIPARUM MALARIA

Sarah Volkman¹, Daniel E. Neafsey², Stephen F. Schaffner², Danny J. Park², Philip Montgomery², Nathan Houde², Ousmane Sarr³, Douda Ndiaye³, Soulyemane Mboup³, Danny A. Milner, Jr.¹, Roger Wiegand², Daniel L. Hartl⁴, Bruce W. Birren², Eric S. Lander², Pardis C. Sabeti², Dyann F. Wirth¹

¹Harvard School of Public Health, Boston, MA, United States,

²Broad Institute of MIT and Harvard, Cambridge, MA, United States,

³Cheikh Anta Diop University, Dakar, Senegal, ⁴Harvard

University, Cambridge, MA, United States



10:30 a.m.

407

ANALYSIS OF *PLASMODIUM FALCIPARUM* QUANTITATIVE TRAIT LOCI DETERMINING DIFFERENTIAL INFECTIVITY TO ANOPHELES MOSQUITOES

Jonathan Mwangi, Lisa Ranford-Cartwright
University of Glasgow, Glasgow, United Kingdom

10:45 a.m.

408

FIXATION OF MUTATIONS AND A SINGLE ORIGIN OF PFCRT AND PFMDR1 HAPLOTYPES IN *PLASMODIUM FALCIPARUM* FROM VENEZUELA

Sean M. Griffing¹, Luke Syphard², Sankar Sridaran³, Andrea McCollum³, Leopoldo Villegas⁴, Ananias A. Escalante⁵, John Barnwell⁶, Venkatachalam Udhayakumar⁶
¹Emory University, Centers for Disease Control and Prevention, Atlanta Research and Education Foundation, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Chamblee, GA, United States, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Asociación Civil Impacto Social, Tumeremo, Venezuela, ⁵Arizona State University, Tempe, AZ, United States, ⁶Centers for Disease Control and Prevention, Atlanta Research and Education Foundation, Atlanta, GA, United States

(ACMCIP Abstract)

11 a.m.

409

***P. VIVAX* POPULATION GENETICS IN PERU AND VIETNAM: A COMPARATIVE STUDY USING MICROSATELLITES MARKERS**

Peter Van den Eede¹, Gert Van Der Auwera¹, Annette Erhart¹, Chantal Van Overmeir¹, Jozef Anné², Umberto D'Alessandro¹
¹Institute of Tropical Medicine Antwerp, Antwerp, Belgium, ²Catholic University of Leuven, Leuven, Belgium

(ACMCIP Abstract)

11:15 a.m.

410

SAP1 IS A SELECTIVE MASTER REGULATOR OF MALARIA PARASITE LIVER INFECTION

Ahmed S. Aly, Stefan H. Kappe
Seattle Biomedical Research Institute, Seattle, WA, United States

(ACMCIP Abstract)

11:30 a.m.

411

DETERMINATION OF THE BASIS FOR A LIMITED DIMORPHISM, N417K, IN THE *PLASMODIUM VIVAX* DUFFY-BINDING PROTEIN

Amy M. McHenry¹, John H. Adams²
¹University of Notre Dame, Notre Dame, IN, United States, ²University of South Florida, Tampa, FL, United States

(ACMCIP Abstract)

11:45 a.m.

412

CHARACTERIZATION OF *PLASMODIUM FALCIPARUM* PROTEIN KINASE 2

Kentaro Kato, Atsushi Sudo, Kyousuke Kobayashi, Yukinobu Tohya, Hiroomi Akashi
The University of Tokyo, Tokyo, Japan

Symposium 73

Metabolic and Metagenomic Profiling of Host-Parasite Interactions

Napoleon A123

Tuesday, December 9, 10:15 a.m. – Noon

Medical research strives to serve two main paradigms. On one hand, it aims to improve life quality in the modern world trying to perfect prevention and treatment of diseases coupled with developing highly specified, personalized health care. On the other hand, developing countries require rapid, inexpensive and efficient diagnostic methods for large-scale population screening. Post-genomic sciences such as transcriptomics, proteomics and metabolomics/metabonomics can yield new insights into disease diagnosis and prognosis. This symposium aims to evaluate the application of post-genomic technologies such as metabolic and metagenomic profiling to diagnosing and promoting mechanistic understanding of parasitic diseases based on easily accessible biofluids such as urine, plasma and fecal water. Spectroscopic tools such as nuclear magnetic resonance (NMR) spectroscopy and mass spectrometry (MS) can be used to metabolically characterize host-parasite interactions in animal models and humans. Each parasitic infection induces both general and specific changes in the metabolic signatures of infection, which can also uncover clues as to the mechanistic processes of the disease and may ultimately result in the identification of targets for therapeutic intervention. We will cover the technological strategies and demonstrate their multiple applications. We will also discuss the use of metagenomic approaches for defining relationships between parasites and host microflora. Unlike genomics, proteomics and transcriptomics, monitoring the metabolic state of an individual is relatively inexpensive, and its biggest advantage over the other -omics sciences is the capacity for high throughput of samples and ease of sample preparation, which uniquely suits it for screening programs in poor countries with high burdens of disease. Finally we will explore the potential of this technology for the diagnosis of multiple infections in human populations.

CHAIR

Juerg Utzinger
Swiss Tropical, Basel, Switzerland
Jennifer Keiser
Swiss Tropical Institute, Basel, Switzerland

10:15 a.m.

GLOBAL OVERVIEW OF METABOLIC PROFILING APPLICATIONS IN TROPICAL MEDICINE

Burton Singer
Princeton University, Princeton, NJ, United States

10:40 a.m.

EPIDEMIOLOGICAL STRATEGIES FOR MOLECULAR PARASITOLOGY

Juerg Utzinger
Swiss Tropical Institute, Basel, Switzerland

Tuesday, December 9

11:05 a.m.**MODELING SPECTROSCOPIC SIGNATURES OF INFECTION**

Elaine Holmes
Imperial College, London, United Kingdom

11:30 a.m.**THE GUT MICROBIOTA: A VIRTUAL ORGAN AND ITS ROLE IN INFECTION**

Julian Marchesi
Cardiff University, Cardiff, United Kingdom

Symposium 74**Innate Immunity to Protozoan Parasites***Maurepas***Tuesday, December 9, 10:15 a.m. – Noon**

Much has been learned for the role of innate immunity in the control of acute infections caused by viruses and bacteria. However, it is less clear as to how protozoan parasites interact with key components in the host innate immunity system. This symposium will focus on the roles of neutrophils, dendritic cells, and NK cells in infections with protozoan parasites. This symposium will include four presentations: (1) Cell signaling mechanisms in inflammatory responses to malaria parasites; (2) *Toxoplasma gondii* and its close encounters with the innate immune system; and (3) Innate immune responses to *Leishmania* parasites. It is anticipated that participants will gain a general picture for the roles of neutrophils, dendritic cells and NK cells at early stages of infection with protozoa and gain some basic knowledge on parasites' strategies to subvert host innate immune responses.

CHAIR

Lynn Soong
The University of Texas Medical Branch, Galveston, TX, United States

10:15 p.m.**CELL SIGNALING MECHANISMS IN INFLAMMATORY RESPONSES TO MALARIA PARASITES**

Channe D. Gowda
Pennsylvania State University, Hershey, PA, United States

10:50 p.m.**TOXOPLASMA GONDII: CLOSE ENCOUNTERS WITH CELLS OF THE INNATE IMMUNE SYSTEM**

Eric Y. Denkers
Cornell University, Ithaca, NY, United States

11:25 p.m.**INNATE IMMUNE RESPONSES TO LEISHMANIA PARASITES**

Lynn Soong
The University of Texas Medical Branch, Galveston, TX, United States

Scientific Session 75**Bacteriology III***Bayside A***Tuesday, December 9, 10:15 a.m. – Noon****CHAIR**

Richelle C. Charles
Massachusetts General Hospital, Boston, MA, United States
Gabriel A. Trueba
Universidad San Francisco de Quito, Quito, Ecuador.

10:15 a.m.**413****HORIZONTAL GENE TRANSFER OF ANTIBIOTIC RESISTANCE GENES IN COMMENSAL *ESCHERICHIA COLI* FROM REMOTE COMMUNITIES**

Gabriel A. Trueba¹, Rosana Segovia¹, William Cevallos¹, Karina Ponce¹, Dimitri Kakabadse¹, Lixin Zhang², Carl F. Marrs², Betsy Foxman², Joseph Eisenberg²
¹Universidad San Francisco de Quito, Quito, Ecuador,
²Department of Epidemiology, University of Michigan, Ann Arbor, MI, United States

10:30 a.m.**414****PROTEOMIC ANALYSIS OF THE PHOP REGULON IN *SALMONELLA ENTERICA* SEROVARS TYPHI AND TYPHIMURIUM**

Richelle C. Charles¹, Jason B. Harris¹, Lauren M. Lebrun¹, Michael Chase¹, Alaullah Sheikh², Regina C. Larocque¹, Brian Krastins³, David Saracino³, Ian Rosenberg³, Abdullah Tarique², Stephen B. Calderwood¹, Elizabeth Hohmann¹, Firdausi Qadri², Kenneth Parker³, Edward T. Ryan¹
¹Massachusetts General Hospital, Boston, MA, United States,
²International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh, ³Harvard-Partners Center for Genetics and Genomics, Cambridge, MA, United States

10:45 a.m.**415****MEMORY B CELL RESPONSES IN PATIENTS WITH DEHYDRATING DIARRHEA CAUSED BY *VIBRIO CHOLERAE* O1**

Aaron M. Harris¹, Jason B. Harris², Md. Saruar Bhuiyan³, Fahima Chowdhury³, Ashraful I. Khan³, Abu S. Faruque³, Regina C. LaRocque², Edward T. Ryan², Firdausi Qadri³, Stephen B. Calderwood²
¹Tufts University School of Medicine, Boston, MA, United States,
²Massachusetts General Hospital, Boston, MA, United States,
³International Centre for Diarrhoeal Disease Research, Dhaka, Bangladesh



11 a.m.

416

PHYLOGENETIC RELATIONS BETWEEN *BARTONELLA* STRAINS IDENTIFIED IN ANIMALS AND HUMANS FROM THAILAND

Michael Y. Kosoy¹, Ying Bai¹, Kriangkrai Lerdthusnee², Jason H. Richardson², Sumalee Boonmar³, Leonard F. Peruski⁴, Saithip Sutthirattana⁴, Susan A. Maloney⁴

¹Division of Vector-Borne Infectious Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States, ²Department of Entomology, Armed Forces Research Institute of Medical Science, Bangkok, Thailand, ³Faculty of Veterinary Medicine, Kasetsart University, Bangkok, Thailand, ⁴International Emerging Infections Program, Thailand MOPH – US CDC Collaboration, Nonthaburi, Thailand

11:15 a.m.

417

SEROPREVALENCE AND EPIDEMIOLOGY OF *BARTONELLA BACILLIFORMIS* INFECTION IN ECUADOR

Shari L. Lydy¹, Mauricio Lascano², Josselyn Garcia³, Gregory A. Dasch¹, Mario J. Grijalva²

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Ohio University, Athens, OH, United States, ³Catholic University of Ecuador, Quito, Ecuador

11:30 a.m.

418

INCIDENCE AND CASE FATALITY RATES OF *BURKHOLDERIA PSEUDOMALLEI* BACTEREMIA IN EASTERN AND NORTHEASTERN THAILAND

Saithip Sutthirattana¹, Henry C. Baggett¹, Leonard F. Peruski¹, Prabda Prapasiri¹, Somsak Thamthitiwat¹, Sathapana Naorat¹, Kittisak Tanwisaid², Paiwan Laowatanathaworn³, Suchada Kongjaroon⁴, Possawat Jornrakate¹, Anek Kaewpan¹, Surang Dejsirilert⁵, Prasong Srisaengchai¹, Kittisak Noonsate¹, Susan Maloney¹

¹Thailand MOPH-US CDC Collaboration, Nonthaburi, Thailand, ²Nakhon Phanom Provincial Hospital, Nakhon Phanom, Thailand, ³Nakhon Phanom Provincial Health Office, Nakhon Phanom, Thailand, ⁴Sa Kaeo Crown Prince Hospital, Sa Kaeo, Thailand, ⁵National Institutes of Health, MOPH, Nonthaburi, Thailand

11:45 a.m.

419

PLAGUE IN THE WEST NILE REGION, UGANDA, 1999-2008

Ingrid B. Weber¹, J. Erin Staples¹, Nicholas Owor², Jeff N. Borchert¹, Titus Apangu², Nackson Babi², Kevin S. Griffith¹, Russell E. Ensore¹, Edward Mbidde², Paul S. Mead¹

¹Centers for Disease Control and Prevention, Fort Collins, CO, United States, ²Uganda Virus Research Institute, Entebbe, Uganda

Scientific Session 76

Clinical Tropical Medicine II

Bayside BC

Tuesday, December 9, 10:15 a.m. – Noon

CHAIR

Arthur Mpimbaza

Uganda Malaria Surveillance Project, Kampala, Uganda

Anne Spichler

Health Municipality Secretariat of Sao Paulo, Sao Paulo, Brazil

10:15 a.m.

420

MOLECULAR DIAGNOSTICS AND SPECIATION GUIDE CHOICE OF ALTERNATIVE, SHORT-COURSE TREATMENT REGIMENS FOR CUTANEOUS LEISHMANIASIS

Roshan Ramanathan¹, Kawsar Talaat², Daniel Fedorko¹, Siddhartha Mahanty¹, Theodore Nash¹

¹National Institutes of Health, Bethesda, MD, United States, ²Johns Hopkins University, Baltimore, MD, United States

10:30 a.m.

421

THE EPIDEMIOLOGY OF *LEISHMANIA CHAGASI* INFECTION IN RIO GRANDE DO NORTE, NORTHEAST BRAZIL

Bruna L. Maciel¹, Iraci D. Lima¹, Hênio G. Lacerda¹, Paula V. Duarte¹, José W. Queiroz¹, Núbia N. Pontes¹, Sérgio R. Araújo¹, Eliana T. Nascimento¹, Glória R. Monteiro¹, Richard D. Pearson², Mary E. Wilson³, Stephen E. McGowan³, Selma M. Jerônimo¹

¹Universidade Federal do Rio Grande do Norte, Natal – RN, Brazil, ²University of Virginia, Charlottesville, VA, United States, ³University of Iowa, Wisconsin, IA, United States

Tuesday, December 9

10:45 a.m.

422

MILTEFOSINE FOR BOLIVIAN MUCOSAL LEISHMANIASIS: EFFICACY OF SIX WEEKS OF THERAPY

J. Soto¹, M. Balderrama², I. Rea², J. Toledo¹, **J. Berman**³
¹Fundacion FADER, Bogota, Colombia, ²Proyecto OSCAR, Palos Blancos, Bolivia, ³ABF, North Bethesda, MD, United States

11 a.m.

423

CLINICAL CHARACTERISTICS OF THREE PATIENTS WITH ACUTE, ORALLY TRANSMITTED CHAGAS DISEASE: THE PROMINENCE OF GASTROINTESTINAL SYMPTOMS

Gisele Dias Freitas¹, Aglaer Nobrega¹, Alessandro Romano¹, Maria Pontes², Liliame Leite², Elenild Costa³, Jeremy Sobel⁴
¹Ministry of Health, Brasília, Brazil, ²Municipal Department of Health, Pará, Brazil, ³State Department of Health, Pará, Brazil, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

11:15 a.m.

424

MULTICENTER CLINICAL TRIAL OF NIFURTIMOX-EFLORNITHINE COMBINATION THERAPY FOR SECOND-STAGE SLEEPING SICKNESS

Gerardo Priotto¹, Serena Kasparian¹, Daniel Nguouama², Sara Ghorashian³, Ute Arnold³, Salah Ghabri¹, Elisabeth Baudin¹, Vincent Buard⁴, Serge Kazadi-Kyanza⁴, Victor Kande⁵, Wilfried Mutombo⁶, Medard Ilunga⁶, Willy Mutangala⁷, Caecilia Schmid⁸, Els Torreele⁹, Unni Karunakara³
¹Epicentre, Paris, France, ²Ministry of Health, Nkayi, Congo, ³Médecins Sans Frontières, Amsterdam, Netherlands, ⁴Médecins Sans Frontières, Brussels, Belgium, ⁵Ministry of Health, Kinshasa, The Democratic Republic of the Congo, ⁶Ministry of Health, Mbuji-Mayi, The Democratic Republic of the Congo, ⁷Ministry of Health, Katanda, The Democratic Republic of the Congo, ⁸Swiss Tropical Institute, Basel, Switzerland, ⁹Drugs for Neglected Diseases initiative, Geneva, Switzerland

11:30 a.m.

425

SIMILARITIES AND DIFFERENCES BETWEEN PEDIATRIC AND ADULT LEPTOSPIROSIS IN SAO PAULO, BRAZIL

Anne Spichler¹, Daniel Athanasio², Pedro Vilaca¹, Erica Chapolla¹, Marcia Buzzar¹, Bronislawa Castro¹, Antonio Seguro³
¹Health Municipality Secretariat of Sao Paulo, Sao Paulo, Brazil, ²Federal University of Bahia, Salvador, Brazil, ³University of Sao Paulo School of Medicine, Sao Paulo, Brazil

11:45 a.m.

426

IDENTIFICATION AND CHARACTERIZATION OF THE ETIOLOGIES OF ACUTE UNDIFFERENTIATED FEBRILE ILLNESS IN CAMBODIA IN 2007

Patrick J. Blair¹, Thomas F. Wierzbza², Sok Touch³, Buth Sokhal⁴, Matthew R. Kasper⁵, Maya Williams⁵, Timothy H. Burgess⁵, Shannon D. Putnam⁵
¹Naval Health Research Center, San Diego, CA, United States, ²NAMRU2-Phnom Penh, Phnom Penh, Cambodia, ³Communicable Diseases Control Department, Phnom Penh, Cambodia, ⁴National Institute of Public Health, Phnom Penh, Cambodia, ⁵Naval Medical Research Unit #2, Jakarta, Indonesia

Symposium 77**Artemisinin Resistance Confirmation, Characterization and Containment in Southeast Asia**

Grand Ballroom A

Tuesday, December 9, 10:15 a.m. – Noon

Global strategies for controlling and eliminating malaria rely heavily on artemisinin-based combination therapies (ACTs). Prolonged parasite clearance times and treatment failures have been reported following treatment with ACTs and with artemisinin monotherapy in Southeast Asia. Malariaologists, malaria control officials, international agencies and donors are working together to confirm, characterize and contain the possible emergence of *Plasmodium falciparum* tolerance and/or resistance to the artemisinins. Speakers in this symposium will provide a status report of the situation including new clinical, *in vitro* and molecular data on artemisinin resistance and plans for containment.

CHAIR

Christopher V. Plowe
 Howard Hughes Medical Institute and University of Maryland, Baltimore, MD, United States

Nicholas J. White
 Mahidol University, Bangkok, Thailand

10:15 a.m.

CLINICAL AND *IN VITRO* EVIDENCE OF ARTEMISININ RESISTANCE IN SOUTHEAST ASIA I

Arjen Dondorp
 Mahidol University, Faculty of Tropical Medicine, Bangkok, Thailand



10:35 a.m.

CLINICAL AND *IN VITRO* EVIDENCE OF ARTEMISININ RESISTANCE IN SOUTHEAST ASIA II

Mark M. Fukuda
Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

10:55 a.m.

POPULATION GENETICS APPROACHES TO CHARACTERIZING AND CONTAINING ARTEMISININ RESISTANCE IN SOUTHEAST ASIA

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

11:15 a.m.

CONTAINING ARTEMISININ RESISTANCE IN SOUTHEAST ASIA

Shunmay Yeung
Mahidol University, Faculty of Tropical Medicine, Bangkok, Thailand

11:35 a.m.

SUMMARY AND DISCUSSION

Nicholas White
Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

Scientific Session 78

Filariasis II – Molecular Biology

Grand Ballroom B

Tuesday, December 9, 10:15 a.m. – Noon

CHAIR

Sasisekhar Bennuru
National Institutes of Health, Bethesda, MD, United States

Gary J. Weil
Washington University, St. Louis, MO, United States

10:15 a.m.

427

EARLY CHANGES IN GENE EXPRESSION PROFILES IN *BRUGIA PAHANGI* L3 AFTER INFECTION IN JIRDS OR *IN VITRO* CULTURE

Ramakrishna U. Rao¹, Thomas R. Klei², Yuefang Huang¹, Krishna P. Shakya², Michael Heinz¹, Ben-Wen Li¹, Gary J. Weil¹
¹*Washington University School of Medicine, St. Louis, MO, United States*, ²*Louisiana State University, Baton Rouge, LA, United States*

10:30 a.m.

428

CHANGES IN THE *Aedes aegypti* TRANSCRIPTOME IN RESPONSE TO *BRUGIA MALAYI* DEVELOPMENT

Sara M. Erickson¹, Zhiyong Xi², Jose L. Ramirez³, Matthew T. Aliota¹, George F. Mayhew¹, Bruce M. Christensen¹, George Dimopoulos³
¹*Univ of Wisconsin-Madison, Madison, WI, United States*, ²*Michigan State University, East Lansing, MI, United States*, ³*Johns Hopkins School of Public Health, Baltimore, MD, United States*

10:45 a.m.

429

WOLBACHIA SEQUENCES IN THE CHROMOSOMAL GENOME OF *ONCHOCERCIA FLEXUOSA* INDICATE PAST *WOLBACHIA* ENDOSYMBIOSIS

Samantha N. McNulty, M. Mitreva, M. Heinz, J. Martin, N.W. Brattig, G.J. Weil, P.U. Fischer
Washington University School of Medicine, St. Louis, MO, United States

11 a.m.

430

GLOBOMYCIN: A NEW CLASS OF DRUG WITH EFFICACY AGAINST *WOLBACHIA* AND FILARIAL NEMATODES

Kelly L. Johnston¹, Bo Wu², Ana Guimarães¹, Louise Ford¹, Pauline A. Ambrose¹, Barton E. Slatko², Mark J. Taylor¹
¹*Liverpool School of Tropical Medicine, Liverpool, United Kingdom*, ²*New England Biolabs Incorporated, Ipswich, MA, United States*

11:15 a.m.

431

A-WOL DRUG DISCOVERY – SCREENING OF NOVEL DERIVATIVES OF TETRACYCLINE WITH IMPROVED EFFICACY OVER DOXYCYCLINE IN AN *IN VITRO* *WOLBACHIA* CELL-LINE ASSAY

Louise Ford¹, Kelly L. Johnston¹, Pauline A. Ambrose¹, Michael P. Draper², Beena Bhatia², Mark J. Taylor¹
¹*Liverpool School of Tropical Medicine, Liverpool, United Kingdom*, ²*Paratek Pharmaceuticals, Inc., Boston, MA, United States*

11:30 a.m.

432

MOLECULAR ANALYSIS OF THE EFFECT OF DIETHYLCARBAMAZINE ON *BRUGIA MALAYI* MICROFILARIAE

Tiffany S. Weinkopff¹, Seth D. Crosby², Mike Heinz², Janice Mladonicky³, Patrick Lammie³, Steve Williams⁴
¹*Department of Cellular Biology, University of Georgia, Athens, GA, United States*, ²*Genome Sequencing Center, Department of Genetics, Washington University School of Medicine, St. Louis, MO, United States*, ³*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁴*Clark Science Center, Department of Biological Sciences, Smith College, Northampton, MA, United States*

Tuesday, December 9

11:45 a.m.

433

MOLECULAR CHARACTERIZATION OF RE-EMERGENT *BRUGIA MALAYI* IN SRI LANKA**Peter U. Fischer**¹, Tilaka Liyanage², Ramakrishna U. Rao¹, Gary J. Weil¹¹Washington University School of Medicine, St. Louis, MO, United States, ²Anti-Filariasis Campaign, Ministry of Health, Colombo, Sri Lanka**Scientific Session 79****Flavivirus IV – West Nile Virus**

Grand Ballroom C

Tuesday, December 9, 10:15 a.m. – Noon

CHAIRNicholas Komar
Centers for Disease Control and Prevention, Fort Collins, CO, United StatesRobin M. Moudy
Wadsworth Center/NYSDOH, Slingerlands, NY, United States

10:15 a.m.

804

THE STOICHIOMETRY OF ANTIBODY-MEDIATED NEUTRALIZATION OF WEST NILE VIRUS INFECTION: FACTORS THAT GOVERN ANTIBODY POTENCY**Steevenson Nelson**¹, Erin Mehlhop², Christiane A. Jost¹, Syd Johnson³, Daved H. Fremont², Michael S. Diamond², Theodore C. Pierson¹¹National Institutes of Health, Bethesda, MD, United States, ²Washington University School of Medicine, St. Louis, MO, United States, ³MacroGenics Inc., Rockville, MD, United States

10:30 a.m.

805

MOLECULAR BASIS FOR THE RESISTANCE OF WEST NILE VIRUS TO ANTIVIRAL ACTIVITY OF OAS1B**Eva Mertens**¹, Isabelle Iteman², Marie-Pascale Frenkiel¹, Dominique Simon-Chazottes³, Anna Kajaste-Rudnitski¹, Philippe Desprès¹¹Institut Pasteur, Flavivirus Host Molecular Interactions, Paris, France, ²Institut Pasteur, Public Health Platform, Paris, France, ³Institut Pasteur, Functional Murine Genetics, Paris, France

10:45 a.m.

806

WEST NILE VIRUS-VECTOR INTERACTIONS ARE AFFECTED BY GLYCOSYLATION OF THE VIRAL ENVELOPE PROTEIN**Robin M. Moudy**, Mark A. Meola, Bo Zhang, Pei-Yong Shi, Laura D. Kramer
Wadsworth Center/NYSDOH, Albany, NY, United States

11 a.m.

807

REPLIVAX WN, A SINGLE-CYCLE FLAVIVIRUS VACCINE, IS SAFE AND EFFICACIOUS IN A RHESUS MACAQUE MODEL OF WEST NILE DISEASE**Douglas G. Widman**¹, Tomohiro Ishikawa¹, Ricardo Carrion², Nigel Bourne¹, Peter W. Mason¹¹University of Texas Medical Branch, Galveston, TX, United States, ²Southwest Foundation for Biomedical Research, San Antonio, TX, United States

11:15 a.m.

808

ECOLOGY OF WEST NILE VIRUS IN GUATEMALA**Nicholas Komar**¹, Maria Eugenia Morales-Betoulle², Nicholas Panella¹, Danilo Alvarez², Celia Cordon-Rosales²¹Centers for Disease Control and Prevention, Fort Collins, CO, United States, ²Centers for Disease Control and Prevention, Guatemala City, Guatemala

11:30 a.m.

809

DETECTION OF RNA FROM A NOVEL WEST NILE-LIKE VIRUS AND HIGH PREVALENCE OF AN INSECT-SPECIFIC FLAVIVIRUS IN MOSQUITOES IN THE YUCATAN PENINSULA OF MEXICO**Bradley J. Blitvich**¹, Maria A. Loroño-Pino², Julian E. Garcia-Rejon², Einat Hovav¹, Ann M. Powers³, Ming Lin¹, Karin S. Dorman¹, Kenneth B. Platt¹, Lyric C. Bartholomay¹, Jose A. Farfan-Ale²¹Iowa State University, Ames, IA, United States, ²The Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico, ³Centers for Disease Control and Prevention, Fort Collins, CO, United States

11:45 a.m.

810

TEMPORAL AND SPATIAL RELATIONSHIP BETWEEN FLANDERS VIRUS AND WEST NILE VIRUS IN THE SOUTHEASTERN UNITED STATES**Abelardo C. Moncayo**¹, Rosmarie Kelly², Dora B. Huddleston¹, Sudeshna Mukherjee¹, William Reimels¹, Junjun Huang¹, Tim F. Jones¹, Daniel G. Mead³¹Tennessee Department of Health, Nashville, TN, United States, ²Georgia Department of Human Resources, Division of Public Health, Atlanta, GA, United States, ³University of Georgia, Southeastern Cooperative Wildlife Disease Study, Athens, GA, United States



Symposium 80

Global Health Programs in University Settings: What's Out There?

Grand Ballroom D

Tuesday, December 9, 10:15 a.m. – Noon

With over 100 programs in the U.S. now developing multidisciplinary global health programs within medical schools, as well as in residency training programs, this symposium will bring together a panel of directors of different models to describe programmatic content of such programs, as well as methods of sustainability.

CHAIR

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

10:15 a.m.

GLOBAL HEALTH PROGRAMS AT U.S. UNIVERSITIES: THE JOHNS HOPKINS MODEL

Thomas C. Quinn
Johns Hopkins University, Baltimore, MD, United States

10:35 a.m.

GLOBAL HEALTH PROGRAM AT UNIVERSITY OF VIRGINIA/HISTORY: BARRIERS AND SUSTAINABILITY

Richard Guerrant
University of Virginia, Charlottesville, VA, United States

10:55 a.m.

GLOBAL HEALTH PROGRAM AT DUKE/HISTORY: BARRIERS AND SUSTAINABILITY

Michael Merson
Duke University, Durham, NC, United States

11:15 a.m.

GLOBAL HEALTH PROGRAM AT MT. SINAI/HISTORY: BARRIERS AND SUSTAINABILITY

Jonathan Ripp
Mt. Sinai School of Medicine, New York, NY, United States

11:30 a.m.

SUMMARY OF UNIVERSITY CONSORTIUM FOR GLOBAL HEALTH MEETING

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

11:50 a.m.

QUESTIONS AND ANSWERS

Symposium 81

Update on Control of Neglected Tropical Diseases in Sub-Saharan Africa

Grand Ballroom E

Tuesday, December 9, 10:15 a.m. – Noon

The Neglected Tropical Diseases affect some 500 million people in Africa, but thanks to donations of drugs from the pharmaceutical industry, many million are receiving treatment. In East and West Africa, with funding from a number of donors, several countries have now embarked on an integrated implementation program to deliver the donated drugs. In this symposium, speakers will report on the coverage achieved in their regions, while an analysis will be presented of the countries still in need of assistance to implement control. Challenges met so far and suggested solutions will be discussed.

CHAIR

Alan Fenwick
Imperial College London, London, United Kingdom

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

10:15 a.m.

INTRODUCTION

Alan Fenwick
Imperial College, London, United Kingdom

10:25 a.m.

CURRENT STATUS OF NEGLECTED TROPICAL DISEASE CONTROL IN EAST AFRICA

Narcis Kabatereine
Vector Control Division, Kampala, Uganda

10:50 a.m.

CURRENT STATUS OF NEGLECTED TROPICAL DISEASE IN W. AFRICA

Amadou Garba
RISEAL, Niamey, Niger

11:15 a.m.

CURRENT STATUS OF NEGLECTED TROPICAL DISEASE CONTROL IN RWANDA AND BURUNDI

Marie-Alice Deville
Schistosomiasis Control Initiative, London, United Kingdom

11:40 a.m.

AN ESTIMATE OF THE UNMET NEEDS OF COUNTRIES IN AFRICA IN ORDER TO CONTROL NEGLECTED TROPICAL DISEASES

Yaobi Zhang
Schistosomiasis Control Initiative, London, United Kingdom

Tuesday, December 9



Exhibit Hall Open/Light Lunch*Napoleon Ballroom***Tuesday, December 9, Noon – 1:30 p.m.****Poster Session 82/Light Lunch****Poster Session B (#434-724 and Late Breakers)***Armstrong Ballroom***Tuesday, December 9, Noon – 1:30 p.m.****Cestodes – Echinococcosis/Hydatid Disease****434****CRITICAL APPRAISAL OF NITAZOXANIDE FOR THE TREATMENT OF ALVEOLAR ECHINOCOCCOSIS****Peter Kern¹**, Philippe Abboud², Winfried V. Kern³, August Stich⁴, Solange Bresson-Hadni⁵, Bruno Guerin⁶, Klaus Buttenschoen¹, Beate Gruener¹, Stefan Reuter⁷, Andrew Hemphill⁸¹University of Ulm, Ulm, Germany, ²University of Rouen, Rouen, France, ³University of Freiburg, Freiburg, Germany, ⁴Medical Mission Hospital, Würzburg, Germany, ⁵University of Besancon, Besancon, France, ⁶Centre Hospitalier, Rodez, France, ⁷University of Düsseldorf, Düsseldorf, Germany, ⁸University of Berne, Berne, Switzerland**435****PRIMARY CEREBRAL HYDATID CYST: REPORT OF A CASE AND REVIEW OF THE LITERATURE****Mehmet Tanyuksel**, Zeynep Guclu Kilbas, Engin Araz, Yusuf Izci, Engin Gonul
*GMMA, Ankara, Turkey***436****UPDATE ON HUMAN POLYCYSTIC ECHINOCOCCOSIS IN NORTH OF BRAZIL****Nilton G. Siqueira¹**, Fernanda B. Almeida², Adriana P. Sudré³, **Jose M. Peralta⁴**, Jose R. Machado-Silva⁵, Rosangela Rodrigues-Silva⁶¹Universidade Federal do Acre, Rio Branco, Acre, Brazil, ²Instituto Oswaldo Cruz – Fiocruz, Rio de Janeiro, Brazil, ³Universidade Federal Fluminense, Niteroi, Brazil, ⁴Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, ⁵Universidade do Estado do Rio de Janeiro, Rio de Janeiro, Brazil, ⁶Instituto Oswaldo Cruz – Fiocruz, Rio de Janeiro, Brazil**437****EVALUATION OF TAENIA SOLIUM CALRETICULIN AS AN ORAL VACCINE IN EXPERIMENTAL TAPEWORM INFECTION****Sonia Leon-Cabrera**, Fela Mendlovic, Mayra Cruz-Rivera, Guillermina Avila-Ramirez, Salvador Fonseca-Coronado, **Ana Flisser***Universidad Nacional Autonoma de Mexico, Faculty of Medicine, Mexico City, Mexico***(ACMCIP Abstract)****438****A COMPREHENSIVE APPROACH TO UNDERSTANDING TAENIA SOLIUM CYSTICERCOSIS IN EASTERN AND SOUTHERN AFRICA: THE CESA PROJECT****A. Lee Willingham¹**, Maria Vang Johansen², Faustin Lekule³, Helena A. Ngowi³, Luis Neves⁴, Emilia Noormahomed⁴, Sonia Afonso⁴, Isaac Nyamongo⁵, C. Owuor Olungah⁵, J. E. Mlangwa³, M. R. Mlozi³, S. Kimera³, G. Ashimogo³, P. Mwakilembe⁶, Y. Assane⁴, A. Pondja⁴, E. Kimbi³, E. Komba³, C. Gule⁴, R. Elisante⁵, C. Cuinhane⁵, W. Matuja⁷, Pascal Magnussen², Stig M. Thamsborg¹¹WHO/FAO Collaborating Center for Parasitic Zoonoses, University of Copenhagen, Frederiksberg C, Denmark, ²DBL-Centre for Health Research and Development, Faculty of Life Sciences, University of Copenhagen, Frederiksberg C, Denmark, ³Sokoine University of Agriculture, Morogoro, United Republic of Tanzania, ⁴Eduardo Mondlane University, Maputo, Mozambique, ⁵Institute of African Studies, University of Nairobi, Nairobi, Kenya, ⁶Uyole Livestock Research Institute, Mbeya, United Republic of Tanzania, ⁷Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania**439****CYSTICERCOSIS AND TAENIASIS IN PAPUA, INDONESIA****Lidwina Salim**, Agnes Ang, Sukwan Handali, Cysticercosis Working Group in Papua, Victor C.W. Tsang
*Centers for Disease Control and Prevention, Chamblee, GA, United States***440****ASSAY DEVELOPMENT AND OPTIMIZATION FOR CYSTICERCOSIS USING RECOMBINANT AND SYNTHETIC DIAGNOSTIC PROTEINS****John Noh¹**, Isabel McAuliffe¹, Yeuk-Mui Lee¹, Sukwan Handali², Maria Silva-Ibanez³, Kathy Hancock¹, Hector H. Garcia⁴, Armando E. Gonzalez⁴, Robert H. Gilman⁴, Patricia Wilkins¹, Victor C.W. Tsang³¹Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA USA, ²Atlanta Research and Education Foundation, Atlanta GA USA, ³Georgia State University, Department of Biology, Atlanta GA USA, ⁴Cysticercosis Working Group in Lima, Peru**Clinical Tropical Medicine****441****POLICY IMPLICATIONS OF THE RESULTS FROM THE RANDOMIZED DOUBLE BLIND PLACEBO CONTROLLED TRIAL OF SP, LAPDAP OR MEFLOQUINE FOR PREVENTION OF MALARIA IN INFANTS STUDY IN NORTH-EASTERN TANZANIA****Roly D. Gosling¹**, Samwel Gesase², Ilona Carneiro¹, Brian M. Greenwood¹, Daniel Chandramohan¹¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²National Institute of Medical Research, Tanga, United Republic of Tanzania



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FIRST AUTOCHTHONES OF *LEISHMANIA TROPICA* IN A REMOTE BORDER AREA OF NORTH-SINAI, EGYPT

Magdi Gebрил Shehata¹, Abdallah Mohammed Samy¹, Said Abdallah Doha², Adel Ramzy Fahmy¹, Rania M. Kaldas³, Jeffrey T. Villinski³

¹Faculty of Science, Ain Shams University, Cairo, Egypt, ²Research and Training Center on Vector of Diseases, Ain Shams University, Cairo, Egypt, ³U.S. Navy Medical Research Unit No. 3, Cairo, Egypt

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NEAR-FATAL ANAPHYLACTIC SHOCK FROM PERCUTANEOUS ASPIRATION OF AN ECHINOCOCCAL CYSTS IN A PATIENT WHO UNDERWENT FOUR PREVIOUS UNEVENTFUL INTERVENTIONS FOR ABDOMINAL ECHINOCOCCOSIS

Enrico Brunetti¹, Giuseppe Mariani¹, **Francesca Tamarozzi**¹, Carlo Filice¹, Giuseppe Sala Gallini²

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CLINICAL SPECTRUM OF PATIENTS PRESENTING WITH TROPICAL PARASITIC LUNG DISEASES IN NEPAL

Narendra Bhatta, Subodh Sagar Dhakal, Suman Rizal, Basudha Khanal, Avdesh Tiwari

B.P. Koirala Institute of Health Sciences, Dharan, Nepal

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INTERRELATIONSHIP BETWEEN THROMBOCYTOPENIA, ACUTE RENAL FAILURE AND PULMONARY INVOLVEMENT IN SEVERE LEPTOSPIROSIS

Anne Spichler¹, Daniel A. Athanazio², Pedro Villaca³, Marcia Buzzar³, Bronislawa Castro³, Erica Chapolla³, Antonio Seguro¹

¹University of São Paulo, São Paulo, Brazil, ²Federal University of Bahia, Salvador, Brazil, ³Health Municipality Secretariat of São Paulo, São Paulo, Brazil

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FACTORS RELATED WITH POOR OUTCOMES IN CHILDREN HOSPITALIZED WITH SEVERE MALARIA IN PEDIATRIC INTENSIVE CARE UNIT (PICU) IN NEPAL

Nisha Keshary Bhatta, Prakash poudel, Balakrishna Kalakheti, Rupa Singh, Basudha Khanal,

B.P.Koirala Institute of Health Sciences, Dharan, Nepal

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NOVEL EXO-ANTIGEN BASED ELISAS FOR DIAGNOSIS OF VISCERAL AND CUTANEOUS LEISHMANIA INFECTIONS

G-Halli R. Rajasekariah, Diane Dogcio, Anthony M. Smithyman

Cellabs Pty Ltd Brookvale, Australia

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PHARMACOKINETICS AND BIOEQUIVALENCE EVALUATION OF TWO FIXED TABLET FORMULATIONS OF DIHYDROARTEMISININ AND PIPERAQUINE IN VIETNAMESE SUBJECTS

Nguyen T. Chinh¹, Nguyen N. Quang¹, Nguyen X. Thanh², Bui Dai², Thomas Travers³, **Michael D. Edstein**³

¹Central Military Hospital 108, Hanoi, Vietnam, ²Military Institute of Hygiene and Epidemiology, Hanoi, Vietnam, ³Australian Army Malaria Institute, Brisbane, Australia

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EVALUATION OF ARTEMISONE COMBINATIONS IN MALARIA-INFECTED AOTUS MONKEYS

Nicanor Obaldia III¹, Barbara M. Kotecka², Richard K. Haynes³, Burkhard Fugmann⁴, Michael D. Edstein², Dennis E. Kyle⁵, Karl H. Rieckmann²

¹Gorgas Memorial Institute, Panama, Panama, ²Australian Army Malaria Institute, Brisbane, Australia, ³The Hong Kong University of Science and Technology, Kowloon, Hong Kong, ⁴Bayer Innovation, Düsseldorf, Germany, ⁵University of South Florida, Tampa, FL, United States

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MALARIA AMONG ASYMPTOMATIC SCHOOL CHILDREN IN EZINATIONAL INSTITUTES OF HEALTHITTE LOCAL GOVERNMENT AREA OF IMO STATE, NIGERIA

Ikechukwu N. Dozie¹, Uchechukwu M. Chukwuocha², Celestine O. Onwuliri², Betram E. Nwoke³

¹Imo State University, Owerri, Imo State, Nigeria, ²Federal University of Technology, Owerri, Imo State, Nigeria, ³Imo State university, Owerri, Imo State, Nigeria

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PATIENTS WHO HAVE RECOVERED FROM LEPTOSPIROSIS WITH NO DEMONSTRABLE *IN VITRO* MEMORY T-CELL RESPONSES TO *LEPTOSPIRA* OR LEPTOSPIRAL PROTEIN ANTIGENS

Iskra Tuero¹, Joseph Vinetz², Gary Klimpel³

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²University of California, San Diego, CA, United States, ³University of Texas Medical Branch, Galveston, TX, United States

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ETHNOMEDICAL SURVEY OF ANTIMALARIAL HERBS AND ANTIMALARIAL ACTIVITY OF *MOMORDICA CHARANTIA* LINN

Mojisola C. Olutayo¹, Olufunke C. Adeloye¹, Taiwo T. Elufioye²

¹Department of Plant Science and biotechnology, Adekunle Ajasin University, Akungba-Akoko, Ondo State, Nigeria, ²Department of Pharmacognosy, Faculty of Pharmacy, Obafemi Awolowo University Ile Ife, Nigeria

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EXTRALESIONAL PRESENCE OF *LEISHMANIA VIANNIA* IN ACTIVE AMERICAN CUTANEOUS LEISHMANIASIS

Roger Figueroa, María Teresa Cardona, Leyder Elena Lozano, Ibeth Romero, **Martin Prager**, María Consuelo Miranda, Nancy Saravia

CIDEIM, Centro Internacional de Entrenamiento e Investigaciones Medicas, Cali, Colombia



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A SURVEY OF THE CARE SEEKING BEHAVIOUR OF MOTHERS OF SICK INFANTS IN AJEROMI/IFELODUN LOCAL GOVERNMENT AREA OF LAGOS STATE, NIGERIA

Nneoma Idika¹, Chimere C. Agomo¹, Christiana Nnenne Okoroma², Adeniyi K. Adeneye¹, Emmanuel O. Idigbe¹
¹Nigerian Institute of Medical Research, Lagos, Nigeria, ²Lagos University Teaching Hospital, Lagos, Nigeria

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USEFULNESS OF TELEDIAGNOSIS IN THE IDENTIFICATION OF TISSUE PARASITES: AN EVALUATION BASED ON TWO YEARS (FROM 2006 TO 2008) OF TELEDIAGNOSIS SUBMISSIONS TO THE CDC DPDX PROJECT

Blaine A. Mathison¹, Alexandre J. da Silva², Stephanie P. Johnston², Henry S. Bishop², Earl Long², Mark Eberhard²
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POPULATION PHARMACOKINETICS OF ARTESUNATE AND DIHYDROARTEMISININ IN HEALTHY VOLUNTEERS

B. Tan¹, L. Fleckenstein¹, KS Yu², IJ Jang²
¹College of Pharmacy, The University of Iowa, Iowa City, IA, United States, ²Department of Pharmacology and Clinical Pharmacology, Seoul National University College of Medicine and Hospital, Seoul, Republic of Korea

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THE USE OF ANTI-MSP1 ELISA TO IDENTIFY NON-IMMUNE INDIVIDUALS FOR INCLUSION IN MALARIA PROPHYLAXIS TRIALS

Gregory Deye¹, Shon Remich², Stephen Ntoburi³, Earnest Cook⁴, Duncan Apollo⁴, Brent House¹, Colin Ohrt¹
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Walter Reed Army Medical Center, Silver Spring, DC, United States, ³Kenya Medical Research Institute/Wellcome Trust Research Programme, Nairobi, Kenya, ⁴Malaria Diagnostics Centre of Excellence, Centre for Clinical Research, Kenya Medical Research Institute, Kisumu, Kenya

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ACCELERATED LOOP-MEDIATED ISOTHERMAL AMPLIFICATION (LAMP) OF ENTEROCYTOZON BIENEUSI AND ENCEPHALITZOON INTESTINALIS (PHYLUM MICROSPORIDIA)

Lisa C. Bowers, Terri A. Rasmussen, Trevor Thompson, Yuliya Y. Sokolova, **Elizabeth S. Didier**
 Tulane National Primate Research Center, Covington, LA, United States

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CLINICAL PRESENTATIONS OF STRONGYLOIDES

DeVon C. Hale, Theresa Sofarelli
 University of Utah, Salt Lake City, UT, United States

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TRAVEL HEALTH ADVICE-SEEKING BEHAVIOR OF US TRAVELERS TO YELLOW FEVER- AND JAPANESE ENCEPHALITIS-ENDEMIC COUNTRIES: FINDINGS FROM THE 2007 HEALTHSTYLES SURVEY

Pauline Han¹, Emad Yanni², Xiaohong Davis², William Pollard², Nina Marano²
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AN OPEN LABEL, RANDOMISED TRIAL OF ARTESUNATE + AMODIAQUINE, ARTESUNATE + CHLORPROGUANIL-DAPSONE AND ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF UNCOMPLICATED MALARIA

Kwaku P. Asante¹, Seth Owusu-Agyei¹, Ruth Owusu¹, Martin Adjuik², Stephen Amenga-Etego¹, David Dosoo¹, John Gyapong³, Brian Greenwood⁴, Daniel Chandramohan⁴
¹Kintampo Health Research Centre, Brong Ahafo Region, Ghana, ²Navrongo Health Research Centre, Ministry of Health, Ghana, ³Health Research Unit, Ghana Health Service, Ghana, ⁴London School of Hygiene and Tropical Medicine, London, United Kingdom

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FACILITATING PROGRAMMING OF QUESTIONNAIRES FOR PERSONAL DIGITAL ASSISTANTS BY NON-PROGRAMMERS

Fredy Muñoz¹, Kim A. Lindblade², Wences Arvelo¹, Gerard Lopez¹
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TESTING VALIDITY OF REPORTED DRUG COVERAGE RATES OF THE NEGLECTED TROPICAL DISEASE CONTROL PROGRAM IN FOUR COUNTRIES

Margaret C. Baker¹, Lily Trofimovich¹, Dieudonne Sankara¹, Mary Linehan¹, Simon Brooker², Elisa Bosque-Oliva³, Amadou Garba⁴, Seydou Toure⁵, Nana Biritwum⁶, Ambrose Onapa⁷, Harriet Namwanje⁸
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AMERICAN VISCERAL LEISHMANIASIS: FEATURES EPIDEMIOLOGIC, CLINIC AND THERAPEUTIC RESPONSE: TRUJILLO STATE, VENEZUELA

Laura C. Vasquez-Ricciardi¹, Libia R. Vasquez P¹, Gilberto Bastidas¹, Efrain Miliani¹, Yolanda Mendez¹, Miladros Oviedo²
¹Universidad de Los Andes, Valera, Venezuela, ²Universidad de Los Andes, Trujillo, Venezuela



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IGG AS A RISK FACTOR FOR NON-HEALING DERMAL LEISHMANIASIS CAUSED BY *LEISHMANIA (VIANNIA) PANAMENSIS*

Olga L. Fernández

Centro Internacional de Entrenamiento e Investigaciones Médicas, Cali, Colombia

(ACMCIP Abstract)

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EFFICACY OF DIHYDROARTEMISININ-PIPERAQUINE VS. ARTESUNATE-AMODIAQUINE FOR THE TREATMENT OF UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN CENTRAL VIETNAM

Nguyen X. Thanh¹, Trieu N. Trung², Nguyen C. Phong¹, Nguyen X. Thien², Bui Dai¹, Dennis Shanks³, Marina Chavchich³, **Michael D. Edstein³**

¹Military Institute of Hygiene and Epidemiology, Hanoi, Vietnam, ²Institute of Malariology, Parasitology and Entomology, Qui Nhon, Vietnam, ³Australian Army Malaria Institute, Brisbane, Australia

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Eduardo Sanchez, Miriam Callacna, Andres Kobashigawa, Luis Diaz, Gladys Patino, Arturo Tokechi

National Hospital Hipolito Unanue, Lima, Peru

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THE DOMESTIC DOG IS A POTENTIAL RESERVOIR OF CUTANEOUS LEISHMANIASIS IN COLOMBIA

Julian Santaella-T¹, Ruppert J. Quinnell², Fabian Mendez³, Clara B. Ocampo-D¹, Leonard Munstermann⁴

¹CIDEIM, Cali, Valle, Colombia, ²Leeds University, Leeds, United Kingdom, ³Universidad del Valle, Cali, Valle, Colombia, ⁴Yale University, New Haven, CT, United States

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EFFECTS OF APPLYING NEW MALARIA TREATMENT POLICIES IN A RURAL DISTRICT OF CASAMANCE, SOUTHERN SENEGAL

Philippe M. Brasseur¹, Patrice Agnamey², Oumar Gaye³, Moustapha Cisse⁴, Malick Badiane⁴, Michel Vaillant⁵, Walter R. Taylor⁶, Piero L. Olliaro⁷

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DOSING ACCURACY OF ARTESUNATE AND AMODIAQUINE AS TREATMENT FOR *FALCIPARUM* MALARIA IN CASAMANCE, SENEGAL

Philippe M. Brasseur¹, Patrice Agnamey², Oumar Gaye³, Moustapha Cisse⁴, Malick Badiane⁴, Michel Vaillant⁵, Walter R. Taylor⁶, Piero L. Olliaro⁷

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DEVELOPMENT AND IMPLEMENTATION OF A LIFE CYCLE-DEPENDENT, PHENOTYPIC HIGH THROUGHPUT *LEISHMANIA MAJOR* PROMASTIGOTE DRUG SUSCEPTIBILITY ASSAYS

Elizabeth R. Sharlow¹, Heather Grieser², Archibong Yellow-Duke², Stephanie Leimgruber², David Close², Rebecca Barrett², Jacob Johnson³, Michael O'Neil³, Alan Magill³, John S. Lazo¹

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MALARIA CLINICAL TRIALS CAPACITY DEVELOPMENT IN AFRICA: CHALLENGES AND EXPERIENCES FROM THE KINTAMPO HEALTH RESEARCH CENTRE, GHANA

Kwaku Poku Asante, Ruth Owusu, Kingsley Osei-Kwakye, Boahen Owusu, Livesy Abokyi, George Adjei, David Dosoo, Seth Owusu-Agyei
Kintampo Health Research Centre, Brong Ahafo Region, Ghana

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WHEN MULTIPLE REGRESSION IS JUST NOT ENOUGH

Eric B. Faragher¹, Job C. Calis², Kamiya S. Phiri³, Michael Boele van Hensbroek²

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Emma Children's Hospital, Academic Medical Center, Amsterdam, Netherlands, ³Malawi-Liverpool-Wellcome Trust Clinical Programme, College of Medicine, Blantyre, Malawi

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MALARIA DECISION SUPPORT SYSTEMS – LESSONS LEARNED

Michael Coleman¹, Natasha Morris¹, Immo Kleinschmidt², Raj Maharaj¹, Janet Hemingway³

¹MRC, Durban, South Africa, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom

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AN ASSESSMENT OF BLOOD VOLUMES IN RELATION TO SYMPTOM RESOLUTION IN SEVERELY ANEMIC MALAWIAN CHILDREN

Michael O. Esan

Malawi Liverpool Wellcome Trust Research Programme, Blantyre, Malawi

Ectoparasite-Borne Disease

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IMPLICATIONS OF A CHANGE IN THE CASE DEFINITION OF LYME DISEASE SURVEILLANCE – MAINE, 2007

Jon Eric Tongren¹, Leif Deyrup², Anthony Yartel², Geoff Beckett²

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Tuesday, December 9

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IDENTIFICATION OF *RICKETTSIA* FROM TICK SPECIES COLLECTED IN TENNESSEE

Sara B. Cohen¹, Michael J. Yabsley², J. D. Freye³, Brett G. Dunlap³, John R. Dunn¹, Daniel G. Mead², Timothy F. Jones¹, Abelardo C. Moncayo¹
¹Tennessee Department of Health, Nashville, TN, United States, ²Southeastern Cooperative Wildlife Disease Study, University of Georgia, Athens, GA, United States, ³United States Department of Agriculture, Animal and Plant Health Inspection Service, Wildlife Services Program, Nashville, TN, United States

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UTILIZATION OF QPCR FOR RAPID CHARACTERIZATION AND AUTHENTICATION OF LARGE AND DIVERSE *RICKETTSIA* COLLECTIONS

Briana Benton, Denise Merrill, Robert O. Baker, Sujatha Radhakrishnan, Kurt J. Langenbach
 American Type Culture Collection/Biodefense and Emerging Infections Research Resources Repository, Manassas, VA, United States

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DETECTION OF SPOTTED FEVER GROUP *RICKETTSIA* IN IXODID TICKS COLLECTED IN LOS ANGELES COUNTY, CALIFORNIA

Michele M. Sturgeon¹, Emily Beeler², Laura Krueger³, Renjie Hu⁴, Gail Vangordon⁵, Michael Rood⁵, Robyn Spano⁵, Sergio Bermudez¹, Gregory A. Dasch¹, Marina E. Ereemeeva¹
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Flaviviridae – Dengue

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CYTOKINE-RELATED GENE EXPRESSION IN THE PERIPHERAL BLOOD AND DENGUE INFECTION SEVERITY

Woraman Waidab, Kanya Suphapeetiporn, Usa Thisyakorn
 King Chulalongkorn Memorial Hospital, Bangkok, Thailand
(ACMCIP Abstract)

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CLIMATIC FACTORS, ENTOMOLOGIC ATTRIBUTES AND EPIDEMICS OF DENGUE IN TAIWAN, 1998 – 2006

Chuin-Shee Shang¹, Chi-Tai Fang¹, Chung-Ming Liu², Fu-Chang Hu³, Chwan-Chuen King¹
¹Institute of Epidemiology, National Taiwan University, Taipei City, Taiwan, ²Global Change Researching Center, National Taiwan University, Taipei City, Taiwan, ³National Center of Excellence for General Clinical Trial & Research, NTU Hospital, Taipei City, Taiwan

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DETECTION AND IDENTIFICATION OF BIOMARKERS FOR DENGUE FEVER (DF) AND DENGUE HEMORRHAGIC FEVER (DHF) USING PLASMA SAMPLES FROM THAI CHILDREN AND SELDI-TOF-MS TECHNOLOGY

Alexa Gilbert¹, Takol Chareonsirisuthigul², Maike Milkreit¹, Sukathida Ubol², Brian J. Ward¹, Momar Ndao¹
¹McGill University, Montreal, QC, Canada, ²Mahidol University, Bangkok, Thailand

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CLASSIFICATION AND REGRESSION TREE (CART) ANALYSIS USING CLINICAL LABORATORY VARIABLES KNOWN TO BE ASSOCIATED WITH DENGUE TO ESTABLISH EARLY DISEASE CLASSIFICATION

James A. Potts¹, Siripen Kalayanarooj², Suchitra Nimmannitya², Anon Srikiatkachorn¹, Ananda Nisalak³, David W. Vaughn⁴, Timothy P. Endy⁵, Daniel H. Libraty¹, Sharone Green¹, Alan L. Rothman¹
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PRIMARY AND SECONDARY INFECTIONS TO DENGUE VIRUS IN PERU – 2007

Maria García, Victoria Gutiérrez, Enrique Mamani, Victor Fiestas, Cesar Cabezas
 Instituto Nacional de Salud, Lima, Peru

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NOVEL SUBUNIT VACCINES FOR PREVENTION OF DISEASES CAUSED BY DENGUE AND OTHER FLAVIVIRAL PATHOGENS

Olivia Block, W.W. Shanaka Rodrigo, Jacob Schlesinger, Xia Jin, Robert Rose
 University of Rochester, Rochester, NY, United States

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IMMUNOGENICITY OF A PSORALEN-INACTIVATED DENGUE-1 VIRUS VACCINE CANDIDATE IN MICE

Ryan C. Maves, Roger M. Castillo, Tadeusz Kochel
 U.S. Naval Medical Research Center Detachment, Lima, Peru

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HANDHELD TECHNOLOGY FOR EFFICIENT INTERVIEWS TO ESTIMATE THE BURDEN AND ECONOMIC COST OF SYMPTOMATIC DENGUE: PILOT IN PUERTO RICO

Donald S. Shepard¹, Hamish Mohammed², Migda M. Dieppa¹, Binod K. Sah¹, Jose A. Suaya¹
¹Brandeis University, Waltham, MA, United States, ²Centers for Disease Control, San Juan, PR, United States

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INFECTION OF Aedes Aegypti BY DENGUE VIRUS TYPE 2 STRAIN 16681

Steven M. Erb¹, Sirtorn Butrapet², Aaron Phillips¹, Thomas Childers², John Roehrig², Claire Huang², Carol Blair¹
¹Colorado State University, Fort Collins, CO, United States, ²Centers for Disease Control and Prevention, Fort Collins, CO, United States

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AN AUTOMATED DENGUE VIRUS MICRONEUTRALIZATION PLAQUE ASSAY PERFORMED IN VERO CELLS AND IN HUMAN FCγ RECEPTOR-EXPRESSING CV-1 CELLS

W. W. Shanaka I. Rodrigo, Danielle C. Alcena, Robert C. Rose, Xia Jin, Jacob J. Schlesinger
 University of Rochester, Rochester, NY, United States

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EPIDEMIOLOGICAL BURDEN OF DENGUE OF OFFICIALLY REPORTED DENGUE CASES IN EIGHT COUNTRIES IN THE AMERICAS AND ASIA

Jose A. Suaya¹, Binod K. Sah¹, Lucy C. S. Lum², Blas Armien³, Joao B. Siqueira⁴, Sukhum Jiamton⁵, Celina T. Martelli⁴, Sukhontha Kongsin⁵, Rekol Huy⁶, Romeo Montoya⁷, Fátima Garrido⁸, Leticia Castillo⁹, Donald S. Shepard¹
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THE SEROEPIDEMIOLOGIC INVESTIGATION OF DENGUE ILLNESS VERSUS DENGUE VIRUS INFECTION AFTER THE 2007 OUTBREAK IN TAINAN CITY, TAIWAN

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CHARACTERIZATION AND GROWTH OF A DEN-2 PDK-53-BASED CHIMERIC TETRAVALENT VACCINE

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RAPID MOLECULAR TYPING OF DENGUE VIRUSES

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USE OF A HIGH THROUGHPUT DENGUE REPORTER VIRUS NEUTRALIZATION ASSAY TO SCREEN PATIENT AND VACCINEE SERA

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IMPORTANT STRATEGIES TO PREVENT SEVERE EPIDEMICS OF DENGUE HEMORRHAGIC FEVER: TAIWAN'S EPIDEMIOLOGIC FINDINGS TO HELP GLOBAL CONTROL

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VECTORIAL COMPETENCE IN Aedes Aegypti OF TWO DIFFERENT DENGUE TYPE 2 VIRUSES ISOLATED FROM THE SAME GEOGRAPHIC AREA IN MEDELLIN, COLOMBIA

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POTENTIAL USE OF STATINS IN PREVENTION AND TREATMENT OF DENGUE VIRUS INFECTION: IN VITRO STUDY

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Flaviviridae – West Nile

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ROLE OF INTERFERON IN RESPONSE TO WEST NILE VACCINATION

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BIOTINYLATION OF ANTIBODIES IN SERUM SAMPLES ALLEVIATES THE NEED FOR SPECIES-SPECIFIC DETECTION CONJUGATES WHEN ASSAYED FOR IN A MICROSPHERE-BASED SYSTEM

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ANTIBODIES TO WEST NILE VIRUS DETECTED IN WILD MAMMALS IN IOWA: 2005 – 2007

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GENETIC AND BIOLOGICAL CHARACTERIZATION OF THE FIRST CARIBBEAN WEST NILE VIRUS ISOLATES

Kovi Bessoff, Kate L. McElroy, Candimar Colón, Manuel Amador, Roberto Barrera, Jorge Muñoz-Jordán, Wellington Sun, Elizabeth Hunsperger
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A RARE PRESENTATION OF NEUROINVASIVE WEST NILE VIRUS INFECTION

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ACUTE WEST NILE DISEASE IN NEW MEXICO: THE QUEST FOR NUCLEIC ACID

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TRENDS IN WEST NILE VIRUS TRANSMISSION IN SUBURBAN COOK COUNTY, ILLINOIS

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ANALYSIS OF THE TRANSCRIPTOMIC RESPONSE TO WEST NILE VIRUS INFECTION IN THE EQUINE HOST

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CREATION OF A CHIMERIC WEST NILE VIRUS CONTAINING DENGUE-2 PRE-MEMBRANE AND ENVELOPE GENES

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YEARLY VARIATION IN WEST NILE VIRUS ANTIBODIES IN AMERICAN KESTRELS (*FALCO SPARVERIUS*) IN PENNSYLVANIA

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PREDICTORS FOR EPIDEMIC WEST NILE VIRUS TRANSMISSION IN EAST BATON ROUGE PARISH, LOUISIANA, 2003-2007

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REGIONAL INCREASE IN WEST NILE NEUROINVASIVE DISEASE AFTER HURRICANE KATRINA

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LIVE ATTENUATED WEST NILE VACCINE BASED ON DEN-2 PDK-53 VECTOR PROTECTS HAMSTERS FROM WILD-TYPE WEST NILE VIRUS CHALLENGE

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DUPLEX MICROSPHERE-BASED ASSAY FOR THE DETECTION OF IGG ANTIBODIES TO WEST NILE VIRUS AND ST. LOUIS ENCEPHALITIS VIRUS

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NONVIREMIC (NON-REPLICATIVE) TRANSMISSION OF WEST NILE VIRUS ON SPECIFIC IMMUNE RODENT HOSTS

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Helminths – Nematodes – Filariasis (Molecular Biology)

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MULTIPLEX PROTEOMICS COMPARISON OF MALE AND FEMALE *BRUGIA MALAYI*

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APTAMER TECHNOLOGY FOR THE IDENTIFICATION OF NOVEL INHIBITORS OF WOLBACHIA ENZYMES FOR ANTIFILARIAL THERAPY

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WOLBACHIA HEME BIOSYNTHESIS AS A POTENTIAL ANTI-FILARIASIS TARGET SET

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QUANTITATIVE ANALYSIS OF MOLTING-REGULATED GENE TRANSCRIPTS IN *BRUGIA PAHANGI* INFECTIVE LARVAE

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LATERAL TRANSFER OF THE FERROCHELATASE GENE IN THE HUMAN PARASITE *BRUGIA MALAYI*

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(ACMCIP Abstract)

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USE OF HETEROLOGOUS MICROARRAY HYBRIDIZATION TO IDENTIFY GENES INVOLVED IN MOSQUITO INFECTIVITY FOR *BRUGIA PAHANGI* MICROFILARIAE

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ANNOTATION AND EVALUATION VERSION 2 *BRUGIA MALAYI* OLIGONUCLEOTIDE ARRAY

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DEVELOPING *BRUGIA MALAYI*/*BRUGIA PAHANGI* HYBRIDS AS A TOOL FOR MOSQUITO INFECTIVITY STUDIES

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Helminths – Nematodes – Filariasis (Other)

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EVALUATION OF DIFFERENT ANTIBODIES FOR IMMUNOSTAINING OF *WOLBACHIA* IN *BRUGIA MALAYI* AND OTHER FILARIAL PARASITES

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IDENTIFICATION OF INHIBITORS OF COFACTOR-INDEPENDENT PHOSPHOGLYCERATE MUTASE (IPGM) FOR POTENTIAL TREATMENT OF LYMPHATIC FILARIASIS

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ALLEVIATING THE BURDEN OF LYMPHEDEMA IN TARABA STATE, NIGERIA VIA COMMUNITY-BASED REHABILITATION (CBR)

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ASSESSMENT OF KNOWLEDGE AND PERCEPTIONS ON ELEPHANTIASIS AND HYDROCELE AMONG RESIDENTS OF DAR ES SALAAM, TANZANIA

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IMPACT OF INCREASED NUMBERS OF COMMUNITY DIRECTED DISTRIBUTORS ON SUCCESSFUL DISTRIBUTION OF IVERMECTIN IN ETHIOPIA, 2007

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EFFECT OF NTD INTEGRATION ON RESOURCE AVAILABILITY FOR LYMPHATIC FILARIASIS

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REDUCED PLASMA VEGF-C AND INCREASED SOLUBLE VEGFR3 ARE ASSOCIATED WITH THE PRESENCE OF HYDROCELE IN MEN WITH LYMPHATIC FILARIASIS

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(ACMCIP Abstract)

**Helminths – Nematodes –
Intestinal Nematodes**

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AN UNUSUAL CASE OF STRONGYLOIDES STERCORALIS COLITIS MIMICKING CROHN'S DISEASE

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GASTROINTESTINAL PARASITE COMMUNITIES OF NON-HUMAN PRIMATES FROM CAMEROON

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OPTIMIZATION OF AN ELISA ASSAY FOR THE DETECTION OF S. STERCORALIS INFECTION IN HUMANS

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ACUTE CENTRAL NERVOUS SYSTEM INFECTION BY TRYPANOSOMA CRUZI IN PREGNANCY RATS

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ECG ALTERATIONS IN FIRST AND SECOND STAGE HUMAN AFRICAN TRYPANOSOMIASIS BEFORE AND AFTER TREATMENT

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EVALUATION OF THE IMMUNOBLOT WITH TESA FROM THREE DIFFERENT TRYPANOSOMA CRUZI STRAINS FOR THE SEROLOGICAL DIAGNOSIS OF CHAGAS DISEASE IN THE USA

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APPLICATION OF A 384 WELL T.B.BRUCEI BS 427 WHOLE CELL VIABILITY ASSAY TO THE HTS OF A NATURAL PRODUCT MARINE FRACTIONATED LIBRARY

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IDENTIFICATION AND EARLY HIT-TO-LEAD OPTIMIZATION OF NOVEL DRUG CANDIDATES FOR THE TREATMENT OF HUMAN AFRICAN TRYPANOSOMIASIS

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A WHOLE CELL HTS ASSAY PLATFORM TO IDENTIFY & SUPPORT HIT-TO-LEAD PROGRESSION OF SELECTIVE INHIBITORS OF *TRYPANOSOMA BRUCEI*

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REAL-TIME PCR ASSAY FOR *TRYPANOSOMA BRUCEI* DETECTION

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REVERSED AMIDINES AS ANTILEISHMANIAL CANDIDATES

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A MULTIPLEX APPROACH FOR SIMULTANEOUS IDENTIFICATION OF SIX DISTINCT *LEISHMANIA SPP*

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PHASE 3 TRIAL OF PAFURAMIDINE MALEATE (DB289), A NOVEL, ORAL DRUG, FOR TREATMENT OF FIRST STAGE SLEEPING SICKNESS: SAFETY AND EFFICACY

Gabriele Pohlig¹, Sonja Bernhard¹, Johannes Blum¹, Christian Burri¹, Alain Mpanya Kabeya², Jean-Pierre Fina Lubaki³, Alfred Mpo Mpotu³, Blaise Fungala Munungu³, Gratias Kambau Manesa Deo⁴, Pierre Nsele Mutantu⁴, Florent Mbo Kuikumbi², Alaine Fukinsia Mintwo², Auguy Kayeye Munungi², Amadeu Dala⁵, Stephen Macharia⁶, Constantin Miaka Mia Bilenge², Victor Kande Betu Ku Mesu², Jose Ramon Franco⁶, Ndinga Dieyi Dituvanga⁵, **Carol A. Olson**⁷

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IN-VITRO EFFICACY OF HYPERBARIC OXYGEN AGAINST *LEISHMANIA TROPICA* PROMASTIGOTES AND AMASTIGOTES

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SERUM NITRIC OXIDE (NO) LEVELS IN CUTANEOUS LEISHMANIASIS (CL): CORRELATIONS WITH TREATMENT OUTCOME AND THE ADVERSE EVENT OF PANCREATITIS

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MINIEXON PCR-RFLP FOR *LEISHMANIA* SPECIES IDENTIFICATION IN NEW WORLD LEISHMANIASIS

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EVALUATION OF THE INFECTIVE PROCESS BY *LEISHMANIA PANAMENSIS* IN A CELL LINE DERIVED FROM *Aedes Aegypti*, WITH BASE IN PHYSICO-CHEMICAL AND ENVIRONMENTAL VARIABLES

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QUANTIFICATION OF PARASITEMIA IN *LEISHMANIA DONOVANI*-INFECTED HAMSTERS BY REAL-TIME PCR

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EVALUATION OF A RAPID IMMUNOCHROMATOGRAPHIC ASSAY FOR DETECTION OF *TRYPANOSOMA CRUZI* ANTIBODIES IN WILDLIFE RESERVOIRS

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Kinetoplastida – Epidemiology

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GENETICALLY DISTINCT *L. DONOVANI* CAUSING CUTANEOUS LEISHMANIASIS IN SRI LANKA: A STUDY ON *LEISHMANIA* SPECIES/STRAIN VARIATION

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LEISHMANIASIS IN SRI LANKA: STUDY OF CLINICAL DISEASE

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SEROPREVALENCE OF *TRYPANOSOMA CRUZI* IN RACCOONS IN TENNESSEE

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AMERICAN VISCERAL LEISHMANIASIS: II DIVERSITY OF WILD ANIMALS ASSOCIATE IN VISCERAL LEISHMANIASIS FOCUS IN TRUJILLO STATE VENEZUELA

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TRYPANOSOMA EVANSI ANTIBODY LEVELS IN THE GOATS FROM SLAUGHTER HOUSES OF KOLKATA, INDIA

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STUDY THE ABILITY OF MONOCYTES CORD BLOOD OF NEWBORNS NOT INFECTED THE MOTHERS INFECTED BY *T. CRUZI* TO CONTROL INFECTION

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CHARACTERIZATION OF A RARE EQUINE LEISHMANIA IN PUERTO RICO; NATIVE OR IMPORTED?

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Kinetoplastida – Molecular Biology and Immunology

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GENE ORGANIZATION AND SEQUENCE ANALYSIS OF TRANSFER RNA GENES IN TRYPANOSOMATID PARASITES

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EVALUATION OF ALKANEDIAMIDE-LINKED BISBENZAMIDINES AS NOVEL AND POTENT ANTITRYPANOSOMAL AGENTS

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MAGNETIC RESONANCE IMAGING INVESTIGATION OF MEGASYNDROME OF THE GASTROINTESTINAL TRACT IN EXPERIMENTAL *TRYPANOSOMA CRUZI* INFECTION

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INNATE IMMUNITY IN THE CONTROL OF *LEISHMANIA AMAZONENSIS* INFECTION: A ROLE FOR TYPE I IFN RECEPTOR AND NEUTROPHIL

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DECREASE OF PARASITIC LOAD AND LESION SIZE IN MURINE CUTANEOUS LEISHMANIASIS INDUCED BY *LEISHMANIA AMAZONENSIS* AFTER TREATMENT WITH MESOIONIC COMPOUNDS

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CHARACTERIZATION OF INTERMEDIATE DEVELOPMENTAL FORMS OBTAINED DURING *IN VITRO* DIFFERENTIATION OF *TRYPANOSOMA CRUZI* FROM TRYPOMASTIGOTES TO AMASTIGOTES

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EVIDENCE OF GENETIC EXCHANGE IN NEW WORLD LEISHMANIA POPULATIONS FROM THE SEQUENCE ANALYSIS OF THREE ISOENZYME MARKERS

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CONSTRUCTION OF POLY-PROTEIN VACCINE ANTIGENS FOR LEISHMANIASIS

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TRYPANOSOMA CRUZI-INDUCED ERECTILE DYSFUNCTION IN MICE

Moses Tar, Rowena Chua, Arnold Melman, Dazhi Zhao, Stephen M. Factor, Herbert B. Tanowitz, Michael E. DiSanto
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PILOT STUDY OF A THERAPEUTIC DNA VACCINE AGAINST *TRYPANOSOMA CRUZI* IN NON-HUMAN PRIMATES**Eric Dumonteil**¹, Meredith Hunter², Hiatzy Zapata-Estrella¹, Patricia Dorn³, Preston Marx²¹Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico,²Tulane University, New Orleans, LA, United States, ³Loyola University, New Orleans, LA, United States**(ACMCIP Abstract)****Malaria – Chemotherapy**

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EXTENDED HIGH EFFICACY (90 DAYS FOLLOW UP) OF THE COMBINATION SULPHADOXINE-PYRIMETHAMINE WITH ARTESUNATE IN CHILDREN WITH UNCOMPLICATED FALCIPARUM MALARIA ON THE BENIN COAST, WEST AFRICA**Alain M. Nahum**¹, Annette Erhart², Daniel Ahounou¹, Chantal Van Overmeir², Joris Menten², Martin Akogbeto¹, Marc Coosemans², Achille Massougbdji³, Umberto D'Alessandro²¹Centre de Recherche Entomologique de Cotonou, Cotonou, Benin, ²Prince Leopold Institute of Tropical Medicine, Antwerp, Belgium, ³Laboratoire de Parasitologie, Faculté des Sciences de la Santé, Université Nationale du Bénin, Cotonou, Benin

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EARLY DEVELOPMENT OF THE NEW ARTEMETHER-LUMEFANTRINE DISPERSIBLE TABLET: PALATABILITY AND PHARMACOKINETICS IN HEALTHY SUBJECTS**Gilbert Lefèvre**¹, Salim Abdulla², John Lyimo², Alex Agyemang³, Christine Reynolds⁴, Steve Pascoe³, Serge Fitoussi⁵, Ching-Ming Yeh⁴, Marja Nuortti¹, Gilles-Jacques Rivière⁶, Romain Séchaud¹¹Novartis Pharma AG, Basel, Switzerland, ²Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, ³Novartis Pharma Ltd Horsham, United Kingdom, ⁴Novartis Pharma Corporation, East Hanover, NJ, United States, ⁵Mediscis, Lagord, France, ⁶Novartis Pharma SAS, Rueil-Malmaison, France

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PHARMACOKINETIC AND PHARMACODYNAMIC CHARACTERISTICS OF A NEW DISPERSIBLE TABLET FORMULATION OF ARTEMETHER-LUMEFANTRINE COMPARED TO THE CRUSHED COMMERCIAL TABLET IN AFRICAN CHILDREN WITH *P. FALCIPARUM* MALARIA**Abdoulaye Djimdé**¹, Steffen Borrmann², Salim Abdulla³, Gilbert Lefèvre⁴, Kim Andriano⁵¹Malaria Research and Training Center, University of Bamako, Bamako, Mali, ²Kenya Medical Research Institute, Kifili, Kenya, ³Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, ⁴Novartis Pharma AG, Basel, Switzerland, ⁵Novartis Pharma Corporation, East Hanover, NJ, United States

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SAFETY PROFILE OF ARTEMETHER-LUMEFANTRINE (AL; COARTEM®) COMPARED WITH SULFADOXINE-PYRIMETHAMINE (SP) IN PREGNANT WOMEN WITH SYMPTOMATIC MALARIA: PRELIMINARY RESULTS OF AN OBSERVATIONAL STUDY**Christine Manyando**¹, Rhoda Mkandawire², Lwipa Puma³, Moses Sinkala⁴, Eric Njunju¹, Melba Gomes⁵, Kim Andriano⁶, Raymond Schlienger⁷, Mailis Virtanen⁷¹Tropical Diseases Research Centre, Ndola, Zambia, ²District Health Office, Choma, Zambia, ³District Health Office, Ndola, Zambia, ⁴District Health Office, Lusaka, Zambia, ⁵World Health Organisation, Geneva, Switzerland, ⁶Novartis Pharmaceuticals Corporation, East Hanover, NJ, United States, ⁷Novartis Pharma AG, Basel, Switzerland

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EFFICACY AND SAFETY OF ARTEMETHER-LUMEFANTRINE DISPERSIBLE TABLET ACCORDING TO BODY WEIGHT IN AFRICAN INFANTS AND CHILDREN WITH UNCOMPLICATED MALARIA**Lucas Otieno**¹, John Lyimo², Hama Maiga³, Mahfudh Bashraheil⁴, Alain Nahum⁵, Sonia Machevo⁶, Peter Ouma⁷, Hamad Makame⁸, Nathan Mulure⁹, Obiyo Nwaiwu¹⁰¹Walter Reed Project – KEMRI, Kisumu, Kenya, ²Ifakara Health Research and Development Centre, Dar es Salaam, United Republic of Tanzania, ³Malaria Research and Training Center, University of Bamako, Bamako, Mali, ⁴Kenya Medical Research Institute, Kilifi, Kenya, ⁵Centre de Recherche Entomologique de Cotonou, Cotonou, Benin, ⁶Manhiça Health Research Centre (CISM), Manhiça, Mozambique, ⁷Kenya Medical Research Institute/Center for Disease Control, Kisumu, Kenya, ⁸Zanzibar Malaria Research Unit of the Karolinska Institute, Zanzibar, United Republic of Tanzania, ⁹Novartis Pharma AG, Nairobi, Kenya, ¹⁰Novartis Pharma AG, Lagos, Nigeria

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INTERVENTIONS TO IMPROVE PROMPT AND EFFECTIVE TREATMENT OF MALARIA: DO WE KNOW WHAT WORKS?**Lucy A. Smith**, Jayne Webster, Caroline Jones
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MALARIA TREATMENT IN THE PRIVATE SECTOR IN TANZANIA**Angel Dillip**¹, Sandra Alba¹, Manuel Hetzel², Brigit Obrist², Flora Kessy¹, Christian Lengeler², Iddy Mayumana¹, Alexander Schulze³, Christopher Mshana¹, Hassan Mshinda¹, Ahmed Makemba¹¹Ifakara Health Research and Development Centre, Morogoro, United Republic of Tanzania, ²Swiss Tropical Institute, Basel, Switzerland, ³Novartis Foundation for Sustainable Development, Basel, Switzerland

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EFFECTS OF AMODIAQUINE, ARTESUNATE, AND ARTESUNATE-AMODIAQUINE ON *PLASMODIUM FALCIPARUM* MALARIA-ASSOCIATED ANAEMIA IN CHILDREN

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DRUG-DRUG INTERACTIONS BETWEEN ARTEMETHER/LUMEFANTRINE AND LOPINAVIR/RITONAVIR IN HIV NEGATIVE HEALTHY VOLUNTEERS

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PHARMACOVIGILANCE AND ANTIMALARIAL TREATMENT IN UGANDA: A PILOT SYSTEM OF ENHANCED PASSIVE SURVEILLANCE

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MASSIVE REDUCTION OF ANTIMALARIAL PRESCRIPTIONS AFTER RAPID DIAGNOSTIC TESTS IMPLEMENTATION IN DAR ES SALAAM, TANZANIA

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POTENT AND SELECTIVE INHIBITORS OF HISTONE DEACETYLASE IN *PLASMODIUM FALCIPARUM* AND *P. BERGHEI*

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HIGH THROUGHPUT SCREENING TO IDENTIFY CHEMOTYPES AS POSSIBLE ANTIMALARIALS

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QUANTITATIVE STRUCTURE-ACTIVITY RELATIONSHIPS (QSARS) FOR CANDIDATE ANTIMALARIALS AGAINST CHLOROQUINE-RESISTANT *PLASMODIUM FALCIPARUM*

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IDENTIFICATION OF MODELS TO PREDICT A NON-HEMOLYTIC 8-AMINOQUINOLINE

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A MEDICINAL CHEMISTRY PROGRAM FOR THE DISCOVERY OF *PLASMODIUM FALCIPARUM* DIHYDROOROTATE DEHYDROGENASE INHIBITORS WITH ANTIMALARIAL ACTIVITY

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ANTIMALARIAL ACTIVITY OF ARYL-SUBSTITUTED 2-ETHOXYACETAMIDES

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CHLORPROGUANIL-DAPSONE-ARTESUNATE VS. CHLORPROGUANIL-DAPSONE: A RANDOMISED, DOUBLE-BLIND PHASE III TRIAL FOR THE TREATMENT OF ACUTE UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA

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TRAINING ON PHARMACOVIGILANCE IN AFRICAN RURAL AREAS: THE EXPERIENCE OF ALIVE

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THERAPEUTIC EFFICACY OF GSK932121, A 4(1H)-PYRIDONE CANDIDATE FOR CLINICAL DEVELOPMENT AGAINST *P. YOELII* AND *P. FALCIPARUM*

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NOD-SCID *IL2R*^{-/-} MICE ENGRAFTED WITH HUMAN ERYTHROCYTES SUPPORT HIGHER *P. FALCIPARUM*-PARASITEMIAS THAN NOD-SCID *BETA2 MICROGLOBULIN*^{-/-} ENGRAFTED MICE

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DEVELOPMENT OF A HIGH-THROUGHPUT *IN-VITRO* SCREEN TO IDENTIFY INHIBITORS OF THE *PLASMODIUM FALCIPARUM* HEAT SHOCK PROTEIN 90 BINDING ACTIVITY

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PHARMACOKINETIC-PHARMACODYNAMIC RELATIONSHIPS OF IMIDAZOLIDINEDIONE DERIVATIVES

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PHARMACOKINETIC CHARACTERIZATION STUDIES IN MICE AND BEAGLE DOGS OF 4(1H)-PYRIDONE DERIVATIVE GSK932121

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COMPLEXITY OF *PLASMODIUM FALCIPARUM* CLINICAL SAMPLES FROM UGANDA DURING SHORT-TERM CULTURE

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MOLECULAR EVIDENCE FOR CHLOROQUINE-RESISTANT *PLASMODIUM FALCIPARUM* IN HAITI

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ASSESSMENT OF THE ORIGINS AND SPREAD OF PUTATIVE RESISTANCE-CONFERRING MUTATIONS IN *PLASMODIUM VIVAX* DIHYDROPTEROATE SYNTHASE

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PLASMODIUM FALCIPARUM HEME DETOXIFICATION PROTEIN (HDP) IS NOT LINKED TO CHLOROQUINE RESISTANCE GENOTYPE

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RANDOMIZED CONTROLLED CLINICAL TRIAL OF ARTESUNATE/MEFLOQUINE PAEDIATRIC FORMULATION VERSUS ARTEMETHER/LUMEFANTRINE FOR UNCOMPLICATED CHILDHOOD *FALCIPARUM* MALARIA IN IVORY COAST

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MOLECULAR GENOTYPING AND DRUG RESISTANCE ANALYSES OF *PLASMODIUM FALCIPARUM* RECURRENT PARASITEMIAS IN A CLINICAL TRIAL IN THE PERUVIAN AMAZON REGION

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SELECTION OF *PLASMODIUM FALCIPARUM* MULTIDRUG RESISTANCE GENE 1 ALLELE IN ASEXUAL STAGES AND GAMETOCYTES BY ARTEMETHER-LUMEFANTRINE IN NIGERIAN CHILDREN WITH *FALCIPARUM* MALARIA

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SELECTION OF *P. FALCIPARUM* WITH DIMINISHED RESPONSE TO AMODIAQUINE FOLLOWING TREATMENT WITH COMBINATION THERAPY IN UGANDA

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FAILURE OF ARTESUNATE-MEFLOQUINE COMBINATION THERAPY FOR UNCOMPLICATED *P. FALCIPARUM* MALARIA IN SOUTHERN CAMBODIA

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STABILITY OF PFMDR1 AMPLIFICATION IN *PLASMODIUM FALCIPARUM* IN VITRO

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A DECLINING BURDEN OF MALARIA IN NORTHEASTERN TANZANIA

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KNOWLEDGE AND UTILIZATION OF MALARIA PREVENTION STRATEGIES IN PREGNANCY IN TWO STATES OF INDIA

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SPATIAL DISTRIBUTION AND TEMPORAL DYNAMICS OF CLINICAL MALARIA CASES IN A WESTERN KENYA HIGHLAND SITE

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MICROSATELLITE ANALYSIS OF MULTIPLE-CLONE PLASMODIUM VIVAX INFECTIONS

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A COMMUNITY EFFECTIVENESS TRIAL ON STRATEGIES PROMOTING INTERMITTENT PREVENTIVE ANTIMALARIAL TREATMENT IN PREGNANT WOMEN IN RURAL BURKINA FASO

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IMPROVING UPTAKE OF INTERMITTENT PREVENTIVE ANTIMALARIAL TREATMENT IN ANTENATAL CLINICS THROUGH COMMUNITY BASED PROMOTION IN RURAL BURKINA FASO: A HEALTH CENTRE RANDOMIZED TRIAL

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PREVALENCE AND DISTRIBUTION OF PLASMODIUM VIVAX CIRCUMSPOROZOITE PROTEIN, VK210 AND VK247 VARIANTS, IN PAPUA NEW GUINEA

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EPIDEMIOLOGY OF MALARIA IN AN AREA PREPARED FOR CLINICAL TRIALS IN KOROGWE, NORTHEASTERN TANZANIA

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MAPPING THE NUMBER OF PREGNANT WOMEN AT RISK OF MALARIA GLOBALLY

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PEDIATRIC MALARIA IN THE NATION'S CAPITAL AND VICINITY: CHILDREN'S NATIONAL MEDICAL CENTER 1999-2006

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EVOLUTIONARY FITNESS OF MINORITY-VARIANT CHLOROQUINE-RESISTANT PLASMODIUM FALCIPARUM IN MADAGASCAR

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HOME MANAGEMENT OF MALARIA EPISODES AMONG THE UNDERFIVES PRIOR TO ACT IMPLEMENTATION IN AN URBAN SETTING

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DETECTION OF MINORITY-VARIANT CHLOROQUINE-RESISTANT *PLASMODIUM FALCIPARUM* BY A NON-RADIOACTIVE HETERODUPLEX TRACKING ASSAY

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DYNAMICS OF MALARIA PARASITE AND ANAEMIA PREVALENCE IN RURAL TANZANIA: COMMUNITY CROSS-SECTIONAL SURVEYS, 2001-2006

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KENYAN POST-ELECTION VIOLENCE 2007-2008: USE OF A DEMOGRAPHIC SURVEILLANCE SYSTEM TO DOCUMENT THE DEMOGRAPHIC AND HEALTH BURDEN OF INTERNALLY DISPLACED PERSONS

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A HOLISTIC VIEW OF THE LONG-TERM IMPACT OF MALARIA INTERVENTION STRATEGIES

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THE IMPACT OF ACCESS TO PRIMARY HEALTH CARE ON THE INCIDENCE OF CLINICAL MALARIA IN CHILDREN

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PATTERN OF CORD, PLACENTAL AND POST-DELIVERY MATERNAL MALARIA PARASITAEMIA IN CROSS RIVER STATE, NIGERIA

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BOTTLENECKS FOR HIGH COVERAGE OF INTERMITTENT PREVENTIVE TREATMENT IN PREGNANCY IN A RURAL AREA IN BURKINA FASO

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Malaria – Immunology

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ASSESSING THE CORRELATION BETWEEN GROWTH INHIBITION ACTIVITY AND MALARIA RISK IN A LONGITUDINAL STUDY IN MALI

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PROFILING PROTECTIVE HUMORAL IMMUNE RESPONSES TO *PLASMODIUM FALCIPARUM* BY PROTEIN MICROARRAY IN A LONGITUDINAL STUDY IN MALI

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THE MEMORY B CELL RESPONSE TO AMA1-C1/
ALHYDROGEL® VACCINATION IN SEMI-IMMUNE
ADULTS IN MALI, WITH OR WITHOUT THE CPG 7909
OLIGODEOXYNUCLEOTIDE ADJUVANT

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VACCINATION WITH MSP142-C1/ALHYDROGEL® GENERATES
ANTIGEN-SPECIFIC MEMORY B CELLS IN MALARIA-NAÏVE
U.S. ADULTS AND THE CPG 7909 OLIGODEOXYNUCLEOTIDE
ADJUVANT ENHANCES THIS RESPONSE

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SOME CHILDREN THAT LACK MEROZOITE SURFACE PROTEIN-
1(MSP1) SECONDARY PROCESSING – INHIBITORY ANTIBODIES
STILL POSSESS MSP1₁₉-SPECIFIC ERYTHROCYTE INVASION-
INHIBITORY ANTIBODIES

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TRANSPLENTAL TRANSFER OF ANTIBODIES TO THE FETUS
THAT COULD PROTECT INFANTS FROM MALARIA

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IMMUNOGLOBULIN G SUBTYPE RESPONSES TO UB05,
A DOMINANT *PLASMODIUM FALCIPARUM* ANTIGEN BY
INDIVIDUALS LIVING IN A HIGH TRANSMISSION ENDEMIC
AREA OF THE CAMEROONIAN RAINFOREST

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CYTOKINE PROFILE IN MURINE MODEL OF PREGNANCY-
ASSOCIATED MALARIA

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IDENTIFY B-CELL EPITOPES IN DUFFY BINDING PROTEIN
ASSOCIATE WITH PROTECTION *P. VIVAX* INVASION

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MALARIA RECRUDESCENCE IN MICE PREGNANCY

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IGG ANTIBODIES AGAINST MSP-1 (19-KDA) IN PATIENTS
INFECTED WITH DIFFERENT *PLASMODIUM FALCIPARUM*
GENOTYPES IN IQUITOS, PERU

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Malaria – Molecular Biology

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MSP1 AND MSP2-BASED ESTIMATES OF GENETIC DIVERSITY IN *PLASMODIUM FALCIPARUM* FROM THE ARTIBONITE VALLEY OF HAITI, 2006-2007Berlin L. Londono¹, Thomas Eisele¹, Joseph Keating¹, Adam Benett¹, Ian Rawson², Donald J. Krogstad¹¹Tulane University, New Orleans, LA, United States, ²Hôpital Albert Schweitzer, Deschapelles, Haiti

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DETERMINATION OF GENETIC DIVERSITY OF VACCINE CANDIDATE ANTIGENS IN *PLASMODIUM VIVAX* ISOLATES FROM THE AMAZON BASIN OF PERUStella M. Chenet¹, OraLee H. Branch², Carmen M. Lucas¹, Benjamin J. Espinosa¹, David J. Bacon¹¹Naval Medical Research Center Detachment, Lima, Peru, ²University of Alabama at Birmingham, Birmingham, AL, United States

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GENETIC ANALYSIS OF THE DIHYDROFOLATE REDUCTASE-THYIMIDYLATE SYNTHASE GENE FROM GEOGRAPHICALLY DIVERSE ISOLATES OF *PLASMODIUM MALARIAE*Naowarat Tanomsing¹, Mallika Imwong¹, Sasithon Pukrittayakamee¹, Kesinee Chotivanich¹, Sornchai Looareesuwan¹, Mayfong Mayxay², Christiane Dolecek³, Tran Tinh Hien³, Virgilio E do Rosario⁴, Ana Paula Arez⁴, Pascal Michon⁵, Georges Snounou⁶, Nicholas J White^{1,7}, Nicholas P J Day^{1,7}¹Department of Clinical Tropical Medicine, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ²Wellcome Trust-Mahosot Hospital-Oxford Tropical Medicine Research Collaboration, Microbiology Laboratory, Mahosot Hospital, Vientiane, Lao PDR, ³Oxford University Clinical Research Unit, Hospital for Tropical Diseases, Ho Chi Minh City, Vietnam, ⁴Centro de Malária e outras Doenças Tropicais, Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa, Rua da Junqueira, Lisboa, Portugal, ⁵Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ⁶Parasitologie Comparée et Modèles Expérimentaux USM0307, Muséum National d'Histoire Naturelle, Paris, France, ⁷Centre for Tropical Medicine, Nuffield Department of Clinical Medicine, University of Oxford, Oxford, United Kingdom

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EXTENSIVE GENETIC DIVERSITY IN THE HUMAN MALARIA PARASITE *PLASMODIUM VIVAX*Nadira D. Karunaweera¹, Marcelo U. Ferreira², John W. Barnwell³, Anusha Munasinghe⁴, Christopher King⁵, Fumihiko Kawamoto⁶, Daniel Hartl⁷, Dyann F. Wirth⁴¹Faculty of Medicine, University of Colombo, Colombo, Sri Lanka, ²University of Sao Paulo, Sao Paulo, Brazil, ³Center for Disease Control, Atlanta, GA, United States, ⁴School of Public Health, Harvard University, Boston, MA, United States, ⁵Case Western Reserve University, Cleveland, OH, United States, ⁶Oita University, Oita, Japan, ⁷Harvard University, Boston, MA, United States

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SEQUENCE ANALYSIS OF THE CIRCUMSPOROZOITE PROTEIN GENE OF *PLASMODIUM FALCIPARUM* POPULATIONS IN THAILANDSomchai Jongwutiwes¹, Thongchai Hongsrimumang¹, Kriengsak Limpitikul², Sunee Seethamchai³, Chaturong Putaporntip¹¹Department of Parasitology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ²Department of Tropical Pediatrics, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ³Department of Biology, Faculty of Science, Naresuan University, Pitsanulok, Thailand

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PROSPECTIVE IDENTIFICATION OF MALARIA PARASITE ANTIGEN GENES UNDER BALANCING SELECTION

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SEQUENCE DIVERSITY IN THE MEROZOITE SURFACE PROTEIN 1 GENE OF *PLASMODIUM VIVAX* AS INFERRED FROM 200 THAI ISOLATESChaturong Putaporntip¹, Tongchai Hongsrimumang¹, Pannatat Areekul¹, Sunee Seethamchai², Somchai Jongwutiwes¹¹Department of Parasitology, Faculty of Medicine, Chulalongkorn University, Bangkok, Thailand, ²Department of Biology, Faculty of Science, Naresuan University, Pitsanulok, Thailand

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PFCRT GENETIC MUTATIONS AS MARKERS OF CHLOROQUINE RESISTANCE AMONG SEVERE MALARIA PATIENTS IN GHANA

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GENETIC VARIATION AMONG *PLASMODIUM VIVAX* PRIMATE ISOLATES AND THE IMPLICATION FOR VACCINE DEVELOPMENTFrancis B. Ntumngia¹, Amy M. McHenry², John W. Barnwell³, Jennifer Cole-Tobian⁴, Christopher L. King⁴, John H. Adams¹¹Global Health Infectious Disease Research, University of South Florida, Tampa, FL, United States, ²University of Notre Dame, Notre Dame, IN, United States, ³Center for Disease Control and Prevention, Atlanta, GA, United States, ⁴Center for Global Health and Disease at Case Western Reserve University School of Medicine, Cleveland, OH, United States

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VARIATION AT -607C/A IN THE IL-18 PROMOTER IS ASSOCIATED WITH PROTECTION AGAINST MALARIAL ANEMIA IN KENYAN CHILDREN

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Malaria – Vaccines

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ASSESSMENT OF THE ABILITY OF ANTIBODY REAGENTS WITH SPECIFICITY AGAINST VAR2CSA TO RECOGNIZE THE SURFACE OF INFECTED ERYTHROCYTES FROM PREGNANT WOMEN

Pamela A. Magistrado¹, Ali Salanti¹, Davis John², Nicaise G. Tuikue Ndam³, Steven B. Mwakalinga¹, Mafalda Resende¹, Madeleine Dahlbäck¹, Martha Lemnge⁴, Raimos Olomi², John Lusingu⁴, Thor G. Theander¹, Morten A. Nielsen¹

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A PHASE 1 STUDY OF THE BLOOD STAGE MALARIA VACCINE CANDIDATE AMA1-C1/ALHYDROGEL WITH CPG 7909, USING TWO DIFFERENT FORMULATIONS AND DOSING INTERVALS

Ruth D. Ellis¹, Laura B. Martin¹, Mark Pierce¹, Kazutoyo Miura¹, Gregory E. Mullen¹, Michael P. Fay¹, Carole A. Long¹, Donna Shaffer², Allan Saul¹, Louis H. Miller¹, Anna P. Durbin²

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EVALUATION OF HUMORAL AND CELLULAR RESPONSES INDUCED BY P. BERGHEI CELTOS ADMINISTERED BY RECOMBINANT PROTEIN AND GENE-GUN DELIVERY

Elke S. Bergmann-Leitner, Ryan M. Mease, Kari M. Laquer, Elizabeth H. Duncan, Tatiana Savranskaya, Jack L. Williams, Christian F. Ockenhouse, **Evelina Angov**

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ADVANCED GENERATION ADENO-BASED VECTORS FOR MALARIA VACCINE DEVELOPMENT

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COMPARATIVE ANALYSIS OF MALARIA VACCINE CANDIDATE AMA1-C1/ALHYDROGEL WITH THE ADDITION OF UNIQUE CPG SEQUENCES

Kelly M. Rausch, Bhanumati Ramineni, Lynn Lambert, Kazutoyo Miura, Emma K. Barnafo, Carole A. Long, Louis H. Miller, Laura B. Martin

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MULTI-FUNCTIONAL T-CELL RESPONSES INDUCED BY THE AS01 OR AS02 ADJUVANTED MALARIA VACCINE CANDIDATE APICAL MEMBRANE ANTIGEN-1 (AMA-1) ADMINISTERED TO MALARIA-NAÏVE ADULTS

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PHASE 1A OPEN-LABEL DOSE ESCALATION STUDY TO EVALUATE THE SAFETY, REACTOGENICITY, AND IMMUNOGENICITY OF THE CANDIDATE PLASMODIUM FALCIPARUM MEROZOITE SURFACE PROTEIN-1 (MSP-1₄₂) ADMINISTERED INTRAMUSCULARLY WITH GSK BIOLOGICALS' ADJUVANT SYSTEM AS01B IN HEALTHY MALARIA-NAÏVE ADULTS

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ADJUVANT AND CARRIER EFFECT OF SELF-ASSEMBLING POLYPEPTIDE NANOPARTICLES (SAPN)

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RECOMBINANT PVS230C SPECIFICALLY RECOGNIZES GAMETE STAGE PARASITES OF *PLASMODIUM VIVAX* AND MAY BE USED TO DETECT ANTIBODIES IN HUMAN SERUM, BUT DOES NOT BLOCK OOCYST DEVELOPMENT IN EXPERIMENTAL MOSQUITO INFECTION

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IMMUNOGENICITY STUDIES OF *PLASMODIUM VIVAX* MALARIA VACCINE CANDIDATES BASED ON RECOMBINANT MODULAR CHIMERAS

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STABILITY OF *PLASMODIUM FALCIPARUM* MSP 1-19 HAPLOTYPES INFECTING KENYAN CHILDREN IN TWO REGIONS

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ANTI-APICAL MEMBRANE ANTIGEN 1 IGG IS MORE EFFECTIVE IN INHIBITING *PLASMODIUM FALCIPARUM* GROWTH AS MEASURED BY *IN VITRO* GROWTH INHIBITION ASSAY THAN ANTI-MEROZOITE SURFACE PROTEIN 1 42 IGG

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POLYMORPHISM OF *AEDES AEGYPTI* DEFENSIN A GENE

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BINDING OF THE CRY4B TOXIN OF *BACILLUS THURINGIENSIS* SUBSP. *ISRAELENSIS* TO THE CADHERIN RECEPTOR OF *ANOPHELES GAMBIAE* MEDIATES CELL DEATH

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CHARACTERIZATION OF IMMUNE PEPTIDES IN RESPONSE TO FILARIAL WORM INFECTION IN THE MOSQUITO, *ARMIGERES SUBALBATUS*

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EX VIVO PROMOTER ANALYSIS OF *ANOPHELES GAMBIAE* HEAT SHOCK COGNATE (HSC70) GENE DURING O'NYONG-NYONG VIRUS INFECTION

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COMPARATIVE GENOMICS OF ANTI-VIRAL RNA INTERFERENCE PATHWAYS IN MOSQUITOES

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CHARACTERIZATION OF PI3K AND ITS REPRODUCTIVE ROLE IN THE MOSQUITO *Aedes Aegypti*

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Rebekah J. Kent, Stephen Aspen, Martin Williams, Harry Savage
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THE POPULATION GENETIC STRUCTURE OF *ANOPHELES GAMBIAE* IN KENYA

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GENE FLOW OF *Aedes Aegypti* IN URBAN REGIONS BASED ON THE USE OF NEW MICROSATELLITE MARKERS

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EVOLUTIONARY PLASTICITY OF THE MALARIA MOSQUITO GENOME

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HIGH-RESOLUTION CYTOGENETIC PHOTOMAP FOR THE MAJOR MALARIA VECTOR *ANOPHELES GAMBIAE*

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RECONSTRUCTING ANCESTRAL CHROMOSOMAL
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STRUCTURAL ORGANIZATION OF THE MALARIA MOSQUITO
HETEROCHROMATIN

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THE EVOLUTION OF ANTI-MALARIAL IMMUNE GENES IN THE
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HABITAT SEGREGATION AND CHARACTERIZATION OF ANOPHELES LARVAE IN LOWLAND WESTERN KENYA

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LAND COVER ASSOCIATIONS OF IMMATURE ANOPHELES HABITATS IN A WESTERN KENYA LOWLAND ENDEMIC FOR MALARIA

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ROLE OF A SERINE PROTEASE FROM *A. GAMBIAE* IN *PLASMODIUM* DEVELOPMENT

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EFFECTS OF WEST NILE VIRUS DOSE ON SPATIOTEMPORAL MIDGUT INFECTION PATTERNS IN *CULEX PIPIENS QUINQUEFASCIATUS* SAY (DIPTERA: CULICIDAE)

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HIGH RATES OF FEEDING ON HUMANS IN THE GENERALIST BITER *Aedes albopictus* IN ROME (ITALY)

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CHARACTERIZATION OF WATER-HOLDING CONTAINERS AS MOSQUITO-HABITATS, AND DENGUE-PREVENTION COMMUNITY EDUCATION IN RURAL ECUADORIAN COMMUNITIES

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MICROFILARIAL UPTAKE AND PENETRATION OF THE MIDGUT AMONG DIFFERENT MOSQUITO SPECIES FED SIMULTANEOUSLY ON THE SAME MICROFILAREMIC HOST

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MODELING WEST NILE VIRUS TRANSMISSION AMONG BIRDS IN CONNECTICUT

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VECTOR INCRIMINATION IN A HIGHLY ENDEMIC MALARIA LOCALITY OF CÓRDOBA, COLOMBIA

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FLUCTUATION IN WATER LEVEL OF LAKE VICTORIA AFFECTS ABUNDANCE OF ANOPHELES FUNESTUS

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ADENOVIRUS 21 OUTBREAK AT THE COAST GUARD TRAINING CENTER IN CAPE MAY, NEW JERSEY

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VENTRICULAR DYSFUNCTION IN A PROBABLE MYOCARDIAL TUBERCULOSIS PEDIATRIC CASE

Antoni Soriano Arandes, Esther Guirado Sayago, Olga Calavia Garsaball, Laia Call Ramon, Ester Castellarnau Figueras, Juan Carretero Bellón
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MYCOBACTEREMIA IN RURAL THAILAND: INVASIVE SPECIES AND ANTIBIOTIC SUSCEPTIBILITY WITHIN AN IMMUNOCOMPROMISED POPULATION

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EVIDENCE OF PRIMARY MDR RESISTANCE AMONG TUBERCULOSIS CASES IN PAPUA NEW GUINEA

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HIGH FREQUENCY OF ANTIBIOTIC RESISTANCE IN NASOPHARYNGEAL CARRIERS OF STREPTOCOCCUS PNEUMONIAE IN CHILDREN YOUNGER THAN 2 YEARS OF AGE IN LIMA, PERU

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RESPIRATORY VIRUSES IN A PROSPECTIVE COMMUNITY-BASED PEDIATRIC COHORT IN NICARAGUA

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Tuesday, December 9

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A FAST THERAPEUTIC EFFICACY ASSAY WHICH DISCRIMINATES CIDAL AND STATIC ANTITUBERCULAR COMPOUNDS AGAINST *MYCOBACTERIUM TUBERCULOSIS* GROWING EXPONENTIALLY IN THE LUNGS OF MICE

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(ACMCIP Abstract)

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TUBERCULOSIS PRESENTING AS A CARCINOID TUMOR

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H5N1 SURVEILLANCE IN RESIDENT, CAPTIVE, AND MIGRATORY BIRDS IN JAVA, INDONESIA

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DESCRIPTION OF FOUR ACUTE RESPIRATORY ILLNESS OUTBREAKS IN PERUVIAN MILITARY TRAINING UNITS – 2007

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SURVEILLANCE OF EMERGING DISEASE IN RESOURCE LIMITED SETTINGS

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A SYSTEMATIC REVIEW AND META-ANALYSIS OF TUBERCULOSIS INFECTION RISK IN DEPLOYED MILITARY PERSONNEL AND LONG-TERM CIVILIAN TRAVELERS

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Nazmun Nahar, Rebeca Sultana, Elizabeth Oliveras, Utpal Kumar Mondal, M. Jahangir Hossain, Emily S. Gurley, M. Saiful Islam, M. S. Khan, Stephen P. Luby
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PREDICTING HANTAVIRUS RISK IN CHILE

Gregory E. Glass¹, Pablo A. Marquet², Eduardo R. Palma³, Iván Barria³, Terry L. Yates⁴, Pablo A. Vial⁵, Marcela Ferrés⁶, Gregory J. Mertz⁷

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714

DEVELOPMENT AND EVALUATION OF RECOMBINANT ARENAVIRUS PROTEINS FOR USE IN DIAGNOSTIC, PROPHYLACTIC & THERAPEUTIC APPLICATIONS

Joseph Fair¹, Mary Guttieri², Luis Branco³, Jon Geske⁴, Humarr Khan⁵, Randal Schoepp², Augustine Goba⁵, Joan Geisbert⁶, Robert Garry¹, Daniel Bausch¹
¹*Tulane University, New Orleans, LA, United States*, ²*U.S. Army Medical Research Institute for Infectious Diseases, Fort Detrick, MD, United States*, ³*Biofactura, INC, Rockville, MD, United States*, ⁴*Corgenix, Denver, CO, United States*, ⁵*Kenema Government Hospital, Kenema, Sierra Leone*, ⁶*Boston University, Boston, MA, United States*

715

HOME POULTRY RAISING PRACTICES IN BANGLADESH: THE SETTING FOR ANIMAL TO HUMAN INFLUENZA TRANSMISSION

Rebeca Sultana, M. Saiful Islam, Nazmun Nahar, Nadia A. Rimi, Rouha A. Sarkar, Emily S. Gurley, Elizabeth Oliveras, M. S. Khan, M. Jahangir Hossain, Stephen P. Luby
International Center for Diarrhoeal Disease Research, B, Dhaka, Bangladesh



716

ENVELOPE REGION GENETIC CHARACTERIZATION OF CHIKUNGUNYA VIRUS ISOLATES FROM INDONESIA

Erlin Listiyaningsih¹, Fredrik², Ungke Antonjaya¹, Zen Hafy¹, James L. McArdle³, Charmagne G. Beckett⁴, Kevin R. Porter⁴, Timothy H. Burgess¹, Agus Suwandono⁵, Patrick J. Blair¹, **Maya Williams¹**

¹Naval Medical Research Unit 2, Jakarta, Indonesia, ²University of Indonesia, Depok, Indonesia, ³American Type Culture Collection, Manassas, VA, United States, ⁴Naval Medical Research Center, Silver Spring, MD, United States, ⁵National Institutes of Health Research and Development, Ministry of Health, Jakarta, Indonesia

717

HOW TO IMPLEMENT A SUCCESSFUL TRAINING PROGRAM AT YOUR INSTITUTION?

Anne-Sophie Brocard, Je T'Aime Newton, Karin Loftin, Marian Downing, Joanna Taoromina, Dominica Zimmerman
University of Texas Medical Branch, Galveston, TX, United States

718

WORLD RABIES DAY: A ONE HEALTH INITIATIVE TO...MAKE RABIES HISTORY!

Robert E. Dedmon¹, Cathleen A. Hanlon², Abbigail Tumpey³, Deborah J. Briggs⁴, Peter J. Costa⁵

¹Medical College of Wisconsin, Milwaukee, WI, United States, ²Kansas State University, Manhattan, KS, United States, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Alliance for Rabies Control, Midlothian, United Kingdom, ⁵Global Alliance for Rabies Control, Manhattan, KS, United States

719

AVIAN INFLUENZA IN WILD BIRDS FROM THE CENTRAL COAST OF PERU

Bruno M. Gherzi¹, David Blazes¹, Eliana Icochea², Rosa I. Gonzalez², Tadeusz Kochel¹, Yeny Tinoco³, Merly Sovero¹, Stephen Lindstrom⁴, Bo Shu⁴, Alexander Klimov⁴, Armando E. Gonzalez², Joel M. Montgomery¹

¹Naval Medical Research Center Detachment, Lima, Peru, ²San Marcos University, Lima, Peru, ³Johns Hopkins University, School of Public Health, MD, United States, ⁴Center for Disease Control and Prevention, Atlanta, GA, United States

720

DETECTION OF FEBRILE RESPONSES IN VENEZUELAN EQUINE ENCEPHALITIS VIRUS (VEEV) INFECTED MICE

Shannon S. Martin¹, Michael D. Parker², Russell Bakken², Jessica L. Price¹, Mary Kate Hart¹, Donald L. Fine¹

¹DynPort Vaccine Company, Frederick, MD, United States, ²United States Army Medical Research Institute of Infectious Diseases, Frederick, MD, United States

721

MAYARO FEVER VIRUS OUTBREAK IN SANTA BARBARA, PARÁ STATE, BRAZIL, 2008

Raimunda S. Azevedo, Valéria L. Carvalho, Eliana V. da Silva, Jannifer O. Chiang, Joaquim P. Nunes Neto, Hamilton A. Monteiro, Daniele F. Henriques, Márcio R. Nunes, Vítor S. Peixoto, Sueli G. Rodrigues, **Pedro F. Vasconcelos**
Instituto Evandro Chagas, Belém, Brazil

722

ANTIGENIC DRIFT AND THE REASSORTMENT OF GENOMIC RNA SEGMENTS PROTAGONIST THE MICROEVOLUTION OF PUUMALA HANTAVIRUS IN A BANK VOLE (*MYODES GLAREOLUS*) POPULATION

Maria Razzauti Sanfeliu¹, Angelina Plyusnina¹, Heikki Henttonen², Alexander Plyusnin¹

¹Haartman Institute/University of Helsinki, Helsinki, Finland, ²Finnish Forest Research Institute, Vantaa, Finland

(ACMCIP Abstract)

723

GENETIC CHARACTERIZATION OF THE RABIES VIRUS STRAIN QR 18867 (*RHABDOVIRIDAE, LYSSAVIRUS*) ISOLATED FROM THE *URODERMA BILOBATUM* BAT IN PORTEL MUNICIPALITY, PARÁ STATE, 2004

Keley N. Nunes, Elizabeth S. Travassos da Rosa, Taciana F. Barbosa, Armando S. Pereira, Daniele B. Medeiros, Lívia M. Casseb, **Pedro F. Vasconcelos**, Márcio R. Nunes
Instituto Evandro Chagas, Belém, Brazil

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MATERNAL-FETAL TRANSMISSION OF CHIKUNGUNYA VIRUS IN MICE

Sarah A. Ziegler, Amelia P. Travassos da Rosa, Shu-Yuan Xiao, Robert B. Tesh

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

Poster Session B ACMCIP Abstracts –

Molecular, Cellular and Immunoparasitology

437, 466, 481, 514, 516, 518, 519, 521, 526, 529, 533, 541, 545, 549, 553, 554, 556, 558, 559, 561, 562, 565, 566, 580, 587, 590, 592, 596, 597, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 634, 635, 637, 638, 639, 640, 641, 647, 649, 651, 652, 653, 664, 666, 667, 706, 722

CME/Courses Committee Meeting

Salon 816

Tuesday, December 9, 12:15 p.m. – 1:15 p.m.

Mid-Day Session 83

What are the Roles of Community in Malaria Eradication?: A Roundtable Discussion

Rhythms IIIII

Tuesday, December 9, 12:15 p.m. – 1:15 p.m.

In the latest call for malaria eradication, much has been discussed regarding the roles of health professionals, medico-scientific innovation, NGOs and local governments in designing, implementing and funding malaria eradication. Little has been discussed regarding the roles of the estimated 2-3 billion people at risk for malaria. This roundtable discussion and open forum addresses the potential roles for community, broadly defined, to participate in planning, implementing, sustaining and evaluating malaria programs. Issues that may hinder or facilitate current eradication strategies including reliance on large international programs, technical interventions and expanding roles of affected communities will be discussed. Roundtable participants include health professionals with backgrounds in social sciences; broad historical perspectives on the relationships between malaria, malaria control practices and affected communities; and community-based research and intervention experience in Africa, Asia, the Americas and Europe.

CHAIR

Frank Mannix
*Tulane University School of Public Health and Tropical Medicine,
New Orleans, LA, United States*

12:15 p.m.

Peter Brown
Emory University, Atlanta, GA, United States

12:25 p.m.

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

12:35 p.m.

Peter Kunstadter
*University of California at San Francisco, San Francisco, CA,
United States*

12:45 p.m.

Holly A. Williams
Centers for Disease Control and Prevention, Atlanta, GA, United States

1 p.m.

Marcel Tanner
Swiss Tropical Institute, Basel, Switzerland

Mid-Day Session 84

Constructive Consilience: Applying the Legacy of Robert E. Shope

Waterbury

Tuesday, December 9, 12:15 p.m. – 1:15 p.m.

The purpose of this symposium is to reflect on how the ASTMH research community and the NASA research community might work together in constructive consilience to raise public awareness about the connections between emerging infectious diseases and global climate change. "Constructive consilience" is a phrase that refers to the effort to bring together people of different disciplines and world views to work together to solve common problems. Robert E. Shope was well-known among his colleagues for his knack for overcoming interdisciplinary obstacles. In his final public talk, he encouraged the science community to commit itself to science education and public awareness of emerging infectious diseases. This session organizer is a science educator and research analyst with NASA's Jet Propulsion Laboratory, the principal investigator of Arctica Science Research Projects for Urban Youth — an official project of the International Polar Year, carried out by the Urban Science Corps in Los Angeles and Baltimore and other metropolitan areas around the nation. Presenters include esteemed colleagues of Robert E. Shope and an outstanding recipient of the Robert E. Shope Fellowship to participate in this symposium.

CHAIR

Richard E. Shope
NASA-Jet Propulsion Laboratory, Pasadena, CA, United States

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

12:15 p.m.

Scott C. Weaver
University of Texas Medical Branch, Galveston, TX, United States

12:30 p.m.

Rebekah J. Kent
*The Johns Hopkins Bloomberg School of Public Health,
Baltimore, MD, United States*

12:45 p.m.

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

1 p.m.

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

Mid-Day Session 84A

Attenuated Sporozoite Vaccines for Malaria

Bayside BC

Tuesday, December 9, 12:15 p.m. - 1:15 p.m.

It was previously demonstrated that irradiated infected mosquitoes fed on volunteers protected them against challenge with fully virulent sporozoites. This observation has led to the development of purified, attenuated sporozoites to be prepared as a vaccine administered by needle and syringe. This symposium will present the current approaches of irradiation and genetic modification of sporozoites to develop a vaccine.

CHAIR

Laurence Lemiale
PATH Malaria Vaccine Initiative, Bethesda, MD, United States



12:15 p.m.

RADIATION ATTENUATED SPOROZOITE VACCINE FOR MALARIA

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

12:35 p.m.

GENETIC ENGINEERING OF LIVE ATTENUATED MALARIA VACCINES

Stefan Kappe
SBRI, Seattle, WA, United States

12:55 p.m.

GENETICALLY ATTENUATED SPOROZOITE VACCINE FOR MALARIA

Robert Sauerwein
Radboud University Nijmegen Medical Center, Nijmegen, Netherlands

Meet the Professors 85

Meet the Professors B: Enigmatic and Teaching Cases

Grand Ballroom A

Tuesday, December 9, 12:15 p.m. – 1:15 p.m.

A panel of professors will each present one clinical case of a tropical disease specific to a particular region that they have found a challenge to manage or diagnose. If there is time, participants may be able to present enigmatic cases for the audience and panel to consider. An open discussion will be encouraged, with audience participation.

CHAIR

Anne McCarthy
Ottawa Hospital, Ottawa, ON, Canada

PRESENTERS

David O. Freedman
University of Alabama Birmingham, Birmingham, AL, United States

J. Dick MacLean
McGill Univ. Center for Tropical Disease, Montreal, QC, Canada

Mid-Day Session 86

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

Grand Ballroom D

Tuesday, December 9, 12:15 p.m. – 1:15 p.m.

This symposium is aimed at trainees and others interested in better understanding how manuscripts are reviewed, edited and processed by the society's journal. Pointers on preparation and review of manuscripts will be stressed. The following topics will be covered: 1) Why publish your work in our society's journal; 2) Why and where to publish, i.e. selection of the "right" journal for your work; 3) Examples of a paper in progress; how to prepare and how to write a good paper; 4) The submission and review processes and how they work; 5) How to properly review a paper; 6) How to respond to reviewer comments; and 6) The publication process: what happens after your paper is accepted.

CHAIR

James Kazura
Case Western Reserve University, Cleveland, OH, United States

Cathi Siegel
Case Western Reserve University, Cleveland, OH, United States

12:15 p.m.

WHY SELECT THE AMERICAN JOURNAL OF TROPICAL MEDICINE AND HYGIENE (AJTMH) FOR YOUR PAPER: SELECTING THE RIGHT JOURNAL FOR YOUR WORK

James Kazura
Case Western Reserve University, Cleveland, OH, United States

12:30 p.m.

MANUSCRIPT PROCESSING AT AJTMH

Cathi Siegel
Case Western Reserve University, Cleveland, OH, United States

12:45 p.m.

WHAT CONSTITUTES A WELL- VERSUS POORLY-WRITTEN MANUSCRIPT: RESPONDING TO REVIEWERS' COMMENTS

James Kazura
Case Western Reserve University, Cleveland, OH, United States

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

12:55 p.m.

THE REVIEW: EDITORIAL, CORRESPONDING AUTHOR AND REVIEWER PERSPECTIVES

James Kazura
Case Western Reserve University, Cleveland, OH, United States

1 p.m.

THE REVIEW: EDITORIAL, CORRESPONDING AUTHOR AND REVIEWER PERSPECTIVES

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

1:05 p.m.

OPEN FORUM WITH AUDIENCE

Tuesday, December 9

Mid-Day Session 86A

Video on Neglected Tropical Diseases: "Survival - Distant Places, Forgotten Lives"

Grand Ballroom E

Tuesday, December 9, 12:15 p.m. - 1:15 p.m.

The people of Niger, one of the poorest countries in the world, suffer from a host of forgotten, parasitic diseases. Schistosomiasis and Lymphatic Filariasis were defeated long ago in the developed world but still blight the lives of millions, especially in sub-Saharan Africa. Yet the drugs which can cure these and other neglected diseases are cheap and safe to use. Now, thousands of ordinary people - farmers and teachers, not doctors - are being recruited to distribute these drugs to millions of their fellow citizens. Their ambitious goal - to eliminate five neglected diseases in just five years.

CHAIR

Ann-Marie Sevcsik
Drugs for Neglected Diseases initiative, Geneva, Switzerland

Poster Session B Viewing

Armstrong Ballroom

Tuesday, December 9, 1:30 p.m. - 7 p.m.

Symposium 87

Dengue Viruses, Antibodies and Macrophages: A Lethal Combination

Gallery

Tuesday, December 9, 1:30 p.m. - 3:15 p.m.

These several papers provide substantial new, direct evidence from living and deceased humans of the role of monocytes/macrophages in supporting dengue infections in human beings. More importantly, evidence is presented describing a new phenomenon, "intrinsic antibody dependent enhancement (ADE) in which infection in macrophages by dengue viruses-antibody complexes (at appropriate antibody concentrations or directed at appropriate sites on the virion), suppresses innate immunity. The result is a significant increase in the production of virus per cell. As evidenced in two presentations, dengue viruses differ in their ability to be neutralized by heterotypic dengue antibodies. During second dengue infections, high levels of pre-existing cross-neutralization correlate with protection against severe disease; low levels of neutralization accurately predict susceptibility to overt disease presumably via intrinsic ADE.

CHAIR

Scott B. Halstead
Pediatric Dengue Vaccine Initiative, Seoul, Republic of Korea
Susie Kliks
Pediatric Dengue Vaccine Initiative, Seoul, Republic of Korea

1:30 p.m.

ASSAY OF ANTIBODIES IN FCR-BEARING CELLS, VARIANT VIRAL ANTIGENS ON DENGUE 3 VIRUSES

Aravinda de Silva
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

1:55 p.m.

IMMUNOCYTOLOGY OF INFECTED TARGET CELLS: STUDIES ON PATIENTS AND FATAL CASES

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

2:20 p.m.

DENGUE ANTIBODIES ASSAYED IN HUMAN FCGR-ENGINEERED CELLS: IMPROVING THE CORRELATION BETWEEN NEUTRALIZATION AND PROTECTION

Jacob Schlesinger
University of Rochester School of Medicine, Rochester, NY, United States

2:45 p.m.

INTRINSIC ANNTIGODY DEPENDENT ENHANCEMENT (ADE) IN MONOCYTES

Xia Jin
University of Rochester School of Medicine, Rochester, NY, United States

Symposium 88

Use of Fluorescent Probes and Transgenic Parasites to Enhance Drug Screening

Rhythms III/III

Tuesday, December 9, 1:30 p.m. - 3:15 p.m.

The development of new therapeutics for important parasitic diseases of humans is essential for the control of these pathogens. Such efforts rely on screening potentially effective compounds in pathogen growth/multiplication assays, both *in vitro* and *in vivo*. However, in the case of the parasites that cause malaria and leishmaniasis, these assays have technical limitations that potentially restrict drug development. In response to this problem, the WHO/TDR established a network of investigators from disease endemic and non-endemic countries with capabilities and interests in drug screening using new genomic technology. This symposium will highlight the progress made by the network and will focus on the use of fluorescent probes and transgenic parasites expressing proteins, such as green fluorescent protein (GFP) and luciferase, that have opened up new possibilities for high throughput drug screening.

CHAIR

Ayo Oduola
WHO/TDR, Geneva, Switzerland
Dennis E. Kyle
University of South Florida, Tampa, FL, United States

1:30 p.m.

TRANSGENIC LEISHMANIA FOR *IN VITRO* AND *IN VIVO* DRUG SCREENING

Dennis E. Kyle
University of South Florida, Tampa, FL, United States

1:55 p.m.

IN VITRO PLASMODIUM DRUG SUSCEPTIBILITY TESTING IN CONTEXT: TRANSGENIC PARASITES AND ALTERNATIVE METHODS FOR DRUG DISCOVERY AND EPIDEMIOLOGY.

Martin J. Smilkstein
Portland VA Medical Center, Portland, OR, United States

2:20 p.m.

USE OF TRANSGENIC *P. BERGHEI* RODENT MALARIA MODEL FOR *IN VITRO* AND *IN VIVO* DRUG SCREENING

Andrew P. Waters
University of Glasgow, Glasgow, United Kingdom



2:45 p.m.

DEVELOPMENT OF TRANSGENIC *P FALCIPARUM* FOR *IN VITRO* DRUG SCREENING

Chairat Uthaipabull
National Center for Genetic Engineering and Biotechnology (BIOTEC), Pathumthani, Thailand

Symposium 89

Malaria, Health and Education: New Perspectives and Prospects

Waterbury

Tuesday, December 9, 1:30 p.m. – 3:15 p.m.

Recent evidence from randomized trials has demonstrated the gains for health and education of effective malaria control in schools (Fernando et al, 2006; Clarke et al 2008), equal to or exceeding that seen in previous approaches within school health. Yet, to date, the importance of malaria in school-aged children has been largely overlooked within malaria control. The speakers in this symposium will draw on recent, and past, evidence from Africa and Asia to demonstrate the profound epidemiological consequences of malaria infection and disease for the health, cognition and education of schoolchildren. The symposium will conclude by a panel discussion looking at prospects for integrated control in schools, illustrated by recent developments in school health policy and practice in various countries.

CHAIR

Sian E. Clarke
London School of Hygiene and Tropical Medicine, London, United Kingdom

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

Feiko ter Kuile
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

1:30 p.m.

THE IMPACT OF MALARIA ON THE HEALTH OF SCHOOLCHILDREN IN AFRICA: A REVIEW OF THE EVIDENCE

Sian E. Clarke
London School of Hygiene and Tropical Medicine, London, United Kingdom

2 p.m.

IMPACT OF MALARIA ON THE EDUCATION OF SCHOOLCHILDREN: EXPERIENCE FROM ASIA

Deepika Fernando
University of Colombo, Colombo, Sri Lanka

2:25 p.m.

MALARIA CONTROL WITHIN AN INTEGRATED SCHOOL HEALTH PROGRAM: EXPERIENCES FROM MALAWI

Seung Lee
Save The Children Malawi, Lilongwe, Malawi

2:50 p.m.

THE IMPACT OF MALARIA CONTROL ON COGNITION AND EDUCATION OF SCHOOLCHILDREN: A REVIEW OF THE EVIDENCE

Matthew C. Jukes
Harvard Graduate School of Education, Cambridge, MA, United States

Scientific Session 90

Malaria – Chemotherapy

Napoleon A123

Tuesday, December 9, 1:30 p.m. – 3:15 p.m.

CHAIR

Kalifa A. Bojang
MRC Laboratories, Banjul, Gambia

Miriam Laufer
University of Maryland, Baltimore, MD, United States

1:30 p.m.

725

INTERMITTENT PREVENTIVE TREATMENT (IPT) IN SCHOOLCHILDREN: A RANDOMIZED TRIAL TO COMPARE THE EFFICACY, SAFETY, AND TOLERABILITY OF ANTIMALARIAL REGIMENS IN UGANDA

Joaniter I. Nankabirwa¹, Sian E. Clarke², Narcis Kabatereine³, Bonnie Cundill², Simon Brooker², Sarah G. Staedke²
¹Makerere University, Kampala, Uganda, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³Ministry of Health, Kampala, Uganda

1:45 p.m.

726

A RANDOMISED TRIAL TO COMPARE THE SAFETY, TOLERABILITY AND EFFICACY OF THREE POTENTIAL DRUG COMBINATIONS FOR INTERMITTENT PREVENTIVE TREATMENT IN CHILDREN AGED ONE TO FIVE YEARS IN AN AREA OF SEASONAL MALARIA TRANSMISSION IN UPPER RIVER REGION, THE GAMBIA

Kalifa A. Bojang¹, Francis Akor¹, David Conway¹, Paul Milligan², Ousman Bittaye¹, Brian Greenwood²
¹MRC Laboratories, Banjul, Gambia, ²London School of Hygiene and Tropical Medicine, London, United Kingdom

2 p.m.

727

IMPACT OF ARTEMISININ-BASED COMBINATION THERAPY INTERMITTENT PREVENTIVE TREATMENT ON MALARIA MORBIDITY IN ELEMENTARY SCHOOL STUDENTS IN MALI

Hamma Maiga¹, Breanna Barger², Oumar B. Traore¹, Mamadou Tekete¹, Atime Timbine¹, Antoine Dara¹, Zoumana I. Traore¹, Ogobara K. Doumbo¹, Abdoulaye A. Djimde¹
¹University of Bamako, Bamako, Mali, ²University of Washington, Seattle, WA, United States

Tuesday, December 9

2:15 p.m.

728

PUBLIC HEALTH IMPLICATIONS OF RECRUDESCENT VERSUS NEW INFECTIONS IN DRUG EFFICACY TRIALS

Miriam K. Laufer¹, Matthew B. Laurens¹, Fraction K. Dzinjalama², Oswald Nyirenda², Phillip C. Thesing¹, Terrie E. Taylor³, Christopher V. Plowe¹

¹Center for Vaccine Development, University of Maryland, Baltimore, MD, United States, ²Blantyre Malaria Project, Blantyre, Malawi, ³College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States

2:30 p.m.

729

ARTEMETHER-LUMEFANTRINE VERSUS DIHYDROARTEMISININ-PIPERAQUINE FOR THE TREATMENT OF UNCOMPLICATED MALARIA: A RANDOMIZED LONGITUDINAL TRIAL IN A COHORT OF UGANDAN INFANTS

Emmanuel Arinaitwe¹, Taylor Sandison², Jaco Homby³, Julius Kalama⁴, Abel Kakuru¹, Humphrey Wanzira¹, Neil Vora⁵, Philip J. Rosenthal⁵, Moses Kamya⁶, Jordan W. Tappero³, Grant Dorsey⁵

¹MU-University of California at San Francisco Malaria Research Collaboration, Kampala, Uganda, ²Department of Medicine, University of Washington, Seattle, WA, United States, ³Centers for Disease Control and Prevention – Uganda, Entebbe, Uganda, ⁴Centers for Disease Control and Prevention – Uganda, Tororo Field Station, Tororo, Uganda, ⁵Department of Medicine, University of California, San Francisco, CA, United States, ⁶Department of Medicine, Makerere University, Kampala, Uganda

2:45 p.m.

730

PHARMACOKINETICS OF ARTEMISININ COMBINATION THERAPY IN CHILDREN IN KAMPALA, UGANDA

Julia Mwesigwa¹, Bryan McGee², Joan Nakayaga¹, Tamara Clark², Grant Dorsey², Philip J. Rosenthal², Niklas Lindegardh³, Moses R. Kamya¹, Francesca Aweeka², Sunil Parikh²

¹Makerere University, Kampala, Uganda, ²University of California-San Francisco, San Francisco, CA, United States, ³Mahidol University, Bangkok, Thailand

3 p.m.

731

REGIONAL AGE-BASED DOSE REGIMENS FOR A NEW FIXED-DOSE COMBINATION OF ARTESUNATE-MEFLOQUINE FOR THE TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA IN LATIN AMERICA AND ASIA

Dianne J. Terlouw¹, Daniel J. Hayes¹, Stef van Buuren², Isabela Ribeiro³, Piero L. Olliaro⁴, Feiko O. ter Kuile¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²The Netherlands Organization for Applied Scientific Research, Leiden, Netherlands, ³Drugs for Neglected Diseases initiative, Geneva, Switzerland, ⁴World Health Organization Special Programme for Research and Training in Tropical Diseases/(WHO/TDR), Geneva, Switzerland

Scientific Session 91

Mosquitoes – Vector Biology – Epidemiology I

Bayside BC

Tuesday, December 9, 1:30 p.m. – 3:15 p.m.

CHAIR

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

Thomas W. Scott
University of California, Davis, CA, United States

1:30 p.m.

732

DENGUE VIRUS-INFECTED Aedes Aegypti IN THE HOME ENVIRONMENT

Julian Garcia-Rejon¹, Maria Alba Lorono-Pino¹, Jose Arturo Farfan-Ale¹, Luis Flores-Flores¹, Elsy del Pilar Rosedo-Paredes¹, Nubia Rivero-Cardenas¹, Rosario Najera-Vazquez², Salvador Gomez-Carro², Victor Lira-Zumbardo², Pedro Gonzalez-Martinez², Saul Lozano-Fuentes³, Darwin Elizondo-Quiroga³, Barry Beaty³, **Lars Eisen**³

¹Universidad Autonoma de Yucatan, Merida, Mexico, ²Servicios de Salud de Yucatan, Merida, Mexico, ³Colorado State University, Fort Collins, CO, United States

1:45 p.m.

733

IMPACT ON SEROLOGICAL, ENTOMOLOGICAL, AND BEHAVIORAL INDICES OF AN EVIDENCE-BASED COMMUNITY-DERIVED COMMUNICATION PROGRAM FOR THE CONTROL OF Aedes Aegypti AND DENGUE IN MANAGUA, NICARAGUA

Jorge Arostegui¹, Harold Suazo¹, Josefina Coloma², Alvaro Carcamo¹, Carlos Hernandez¹, Angel Balmaseda³, Neil Andersson¹, **Eva Harris**², CIETNicaragua Dengue Group¹
¹CIETNicaragua, Managua, Nicaragua, ²Division of Infectious Diseases, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ³Departamento de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

2 p.m.

734

A RESIDUAL DEMOGRAPHY METHOD FOR ESTIMATING AGE STRUCTURE OF WILD MOSQUITO VECTOR POPULATIONS

Thomas W. Scott¹, James R. Carey¹, Thanyalak Fansiri², Jason Richardson²

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



2:15 p.m.

735

SCREENING HOMES TO PREVENT MALARIA: A RANDOMISED CONTROLLED TRIAL

Matthew J. Kirby¹, Paul J. Milligan², Momodou Jasseh³, David J. Conway², Steve W. Lindsay¹

¹Durham University, Durham, United Kingdom, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³Medical Research Council Laboratories, Banjul, Gambia

2:30 p.m.

736

THE ROLE OF SUGAR IN THE MATING BEHAVIOR OF ANOPHELES GAMBIAE S.S.

Chris M. Stone, Woodbridge A. Foster
The Ohio State University, Columbus, OH, United States

2:45 p.m.

737

HUMAN IGG RESPONSE TO ANOPHELES GAMBIAE SALIVARY PROTEINS AS AN IMMUNO-EPIDEMIOLOGICAL MARKER OF EXPOSURE TO MALARIA VECTOR BITES

Anne Poinignon¹, Sylvie Cornelié¹, Montserrat Mestres-Simon², Alessandra Lanfrancotti², Marie Rossignol¹, Denis Boulanger¹, Badara Cisse³, Cheikh Sokhna⁴, Bruno Arcà², François Simondon¹, Franck Remoue¹

¹Institut de Recherche pour le Développement, Montpellier, France, ²Sapienza University, Rome, Italy, ³Université Cheikh Anta Diop, Dakar, Senegal, ⁴Institut de Recherche pour le Développement, Dakar, Senegal

3 p.m.

738

CHARACTERIZATION OF HOST-SEEKING ACTIVITY OF ANOPHELES MELAS IN RESPONSE TO INDOOR-BASED ANTI-VECTOR INTERVENTIONS ON BIKO ISLAND, EQUATORIAL GUINEA

Michael R. Reddy¹, Michel A. Slotman¹, Arcadio Edu², Simon Abaga², Valeriano Aloy³, Jaime Kuklinski³, Adgalisa Caccone¹
¹Yale University, New Haven, CT, United States, ²Ministerio de Sanidad y Bienestar Social, Malabo, Equatorial Guinea, ³One World Development Group Inc., Malabo, Equatorial Guinea

Scientific Session 92

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Molecular Parasitology I

Supported with funding from The Burroughs Wellcome Fund

Grand Ballroom A

Tuesday, December 9, 1:30 p.m. – 3:15 p.m.

CHAIR

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

Andrew V. Oleinikov
Seattle Biomedical Research Institute, Seattle, WA, United States

1:30 p.m.

1234

IDENTIFICATION AND CLONING OF BABOON TLF WHICH KILLS HUMAN INFECTIVE AFRICAN TRYPANOSOMES *IN VIVO*

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

1:45 p.m.

739

INTEGRATION OF REPORTER TRANSGENES INTO SCHISTOSOMA MANSONI CHROMOSOMES MEDIATED BY PSEUDOTYPED MURINE LEUKEMIA VIRUS

Kristine J. Kines¹, Maria E. Morales², Victoria H. Mann¹, Geoffrey N. Gobert³, Paul J. Brindley¹
¹George Washington University, Washington, DC, United States, ²Tulane University, New Orleans, LA, United States, ³Queensland Institute of Medical Research, Brisbane, Australia

2 p.m.

740

METABOLOMIC APPROACH TO ONCHOCERCIASIS DIAGNOSTICS

Tobin J. Dickerson, Judith R. Denery, Ashlee A. Nunes, Kim D. Janda
The Scripps Research Institute, La Jolla, CA, United States

Tuesday, December 9

2:15 p.m.

741

DEORPHANIZATION OF TWO NOVEL SCHISTOSOMA
MANSONI G-PROTEIN COUPLED RECEPTORS (GPCRS), USING
A YEAST EXPRESSION SYSTEM

Fouad El-Shehabi, Paula Ribeiro
Institute of Parasitology-McGill University, Montreal, QC, Canada

2:30 p.m.

1235

UNEXPECTED TRNA ENCODED WITHIN THE MITOCHONDRIAL
12S RRNA OF *TRYPANOSOMA BRUCEI*

Melissa Lerch, Matt Beverly, Ken Stuart, Steve Hajduk
Seattle Biomedical Research Institute, Seattle, WA, United States, University of Georgia, Biochemistry and Molecular Biology Department, Athens, GA, United States

2:45 p.m.

742

DIFFERENTIAL PATTERNS OF PROTEIN EXPRESSION IN
HEPATOSPLENIC SCHISTOSOMIASIS

Bhagyashree Manivannan (Uradey)¹, Thomas William Jordan¹, William Evan Secor², Anne Camille LaFlamme¹
¹*Victoria University of Wellington, Wellington, New Zealand,*
²*Centers for Disease Control and Prevention, Atlanta, GA, United States*

3 p.m.

743

HIGH THROUGHPUT QUANTITATIVE ANALYSIS OF ICAM-1
BINDING TO 3D7 DUFFY-BINDING LIKE (DBL) DOMAINS

Andrew V. Oleinikov, Emily Amos, Tyler Frye, Eddie Rossnagle, Theonest K. Mutabingwa, Michal Fried, Patrick E. Duffy
Seattle Biomedical Research Institute, Seattle, WA, United States

Scientific Session 93

Arthropods/Entomology

Grand Ballroom B

Tuesday, December 9, 1:30 p.m. – 3:15 p.m.

CHAIR

Clara B. Ocampo
CIDEIM, Cali, Colombia

Claudia C. Paredes-Esquivel
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

1:30 p.m.

744

CHARACTERIZATION OF A DOMESTIC TRANSMISSION FOCUS
OF AMERICAN CUTANEOUS LEISHMANIASIS IN RURAL
COLOMBIA

Clara B. Ocampo-D¹, Cristina Ferro², Horacio Cadena¹, Dairo Marin¹, Layder Lozano¹, Cesar Ramirez¹, Leonard Munstermann³
¹*CIDEIM, Cali, Valle, Colombia,* ²*Instituto Nacional de Salud, Bogota, Colombia,* ³*Yale University, New Haven, CT, United States*

1:45 p.m.

745

MOLECULAR SYSTEMATICS OF THE BARBIROSTRIS SUBGROUP
AND HYRCANUS GROUP OF THE GENUS *ANOPHELES* IN
SOUTHEAST ASIA

Claudia C. Paredes-Esquivel, Harold Townson
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

2 p.m.

746

CHROMOSOMAL INVERSIONS, NATURAL SELECTION
AND ADAPTATION IN THE MALARIA VECTOR *ANOPHELES*
FUNESTUS

Diego Ayala¹, Michael C. Fontaine², Anna Cohuet¹, Carlo Costantini³, Didier Fontenille¹, Renaud Vitalis⁴, Frederic Simard⁵
¹*Institut de Recherche pour le Developpement, UR Caractérisation et contrôle des populations de vecteurs, Montpellier, France,* ²*Institute of Integrative and Comparative Biology, Faculty of Biological Sciences, University of Leeds, Leeds, United Kingdom,* ³*Institut de Recherche pour le Developpement, UR Caractérisation et contrôle des populations de vecteurs, Yaoundé, Cameroon,* ⁴*Muséum National d'Histoire Naturelle – Centre National de la Recherche Scientifique UMR 5145 – Université Paris 7, Éco-Anthropologie et Ethnobiologie, Musée de l'Homme, Paris, France,* ⁵*Institut de Recherche pour le Developpement, UR Caractérisation et contrôle des populations de vecteurs, Bobo-Dioulasso, Burkina Faso*

2:15 p.m.

747

DOES HEMOLYMPH FLOW DRIVE MALARIA SPOROZOITE
MIGRATION THROUGH THE MOSQUITO HEMOCOEL?

Julián F. Hillyer, Jonas G. King, Justin D. Glenn
Vanderbilt University, Nashville, TN, United States

2:30 p.m.

748

IDENTIFICATION OF THE BARRIERS PREVENTING SUCCESSFUL
DEVELOPMENT OF *PLASMODIUM FALCIPARUM* IN CULEX
MOSQUITOES

Jen Hume, Tovi Lehmann
National Institutes of Health/National Institute of Allergy and Infectious Diseases, Rockville, MD, United States



2:45 p.m.

749

ENVIRONMENTAL FACTORS INFLUENCE *CULEX PIPIENS* *QUINQUEFASCIATUS* (DIPTERA: CULICIDAE) SUSCEPTIBILITY TO WEST NILE AND ST. LOUIS ENCEPHALITIS VIRUSES

Stephanie L. Richards, Cynthia C. Lord, Kendra Pesko, Walter J. Tabachnick
University of Florida /Florida Medical Entomology Laboratory, Vero Beach, FL, United States

3 p.m.

750

BLOOD FEEDING IN MOSQUITOES PROMPTS EXPRESSION OF TWO HEAT SHOCK PROTEINS

Joshua Benoit, Giancarlo Lopez-Martinez, David L. Denlinger
The Ohio State University, Columbus, OH, United States

Symposium 94

Clinical Group I

Supported with funding from International Association for Medical Assistance to Travelers

Grand Ballroom C

Tuesday, December 9, 1:30 p.m. – 3:15 p.m.

This session features the Marcolongo Lecture, named for Vincenzo Marcolongo, who founded the International Association for Medical Assistance to Travellers (IAMAT) and organized physicians from all over the world into a network assisting travelers.

CHAIR

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

1:30 p.m.

VINCENZO MARCOLONGO MEMORIAL LECTURE: UNDERSTANDING NEUROCYSTICERCOSIS: ADVANCES IN THE LAST 50 YEARS

Raul Isturiz
Hospital Privado Centro Medico de Caracas, Caracas, Venezuela.

2:15 p.m.

GEOSENTINEL SURVEILLANCE REPORT

David O. Freedman
University of Alabama Birmingham, Birmingham, AL, United States

Symposium 95

Toward a Second-Generation Malaria Vaccine Development: The Expanding Horizons of Malaria Vaccine Development

Grand Ballroom D

Tuesday, December 9, 1:30 p.m. – 3:15 p.m.

In late 2008 or early 2009, the world's most clinically advanced malaria vaccine candidate is expected to enter a Phase 3 trial, among the last hurdles en route to it being made available for use. If successful, one of two milestones endorsed by the malaria vaccine development community will have been achieved on schedule, that is, the development of a partially efficacious vaccine by 2015. Achieving the next milestone — a vaccine of at least 80 percent efficacy against clinical disease by 2025 — comes next. This symposium will bring together leaders in the vaccine development field to discuss the challenges and opportunities to developing a safe and highly effective "next-generation" malaria vaccine. The symposium will feature presentations on the new approaches that are being explored, and the new or improved tools to be developed, from nanoparticles to challenge models.

CHAIR

Christian Loucq
PATH Malaria Vaccine Initiative, Bethesda, MD, United States
Tonya Villafana
PATH Malaria Vaccine Initiative, Bethesda, MD, United States

1:30 p.m.

Tonya Villafana
PATH Malaria Vaccine Initiative, Bethesda, MD, United States

1:50 p.m.

DELIVERY PLATFORMS, INCLUDING VIRAL VECTORS, BACTERIA, REPLICONS AND VIROSOMES

Ashley Birkett
PATH Malaria Vaccine Initiative, Bethesda, MD, United States

2:10 p.m.

EVALUATION TECHNOLOGIES FOR MALARIA VACCINE DEVELOPMENT

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

2:30 p.m.

ANTIGENS AND THE PROSPECTS FOR ACCELERATING ANTIGEN DISCOVERY

Patrick Duffy
Seattle Biomedical Research Institute, Seattle, WA, United States

2:50 p.m.

ADJUVANTS AND OTHER IMMUNOPOTENTIATORS FOR MALARIA VACCINE DEVELOPMENT

Robert A. Seder
National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Tuesday, December 9



Scientific Session 96

Schistosomiasis III – Molecular Biology/ Biochemistry

Grand Ballroom E

Tuesday, December 9, 1:30 p.m. – 3:15 p.m.

CHAIR

Ronald Blanton

Case Western Reserve University, Cleveland, OH, United States

Timothy Yoshino

University of Wisconsin, Madison, WI, United States

1:30 p.m.

751

STUDIES OF *S. MANSONI* POPULATION STRUCTURE BY MICROSATELLITE ANALYSIS OF AGGREGATED SAMPLES

W.A. Blank¹, E.A. Reis², J.F. Braghiroli², J.M. Santos², P.S. Melo², L.K. Silva², M.G. Reis², R.E. Blanton¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Oswaldo Cruz Foundation, Salvador, Brazil

1:45 p.m.

752

THE EFFECT OF PRAZIQUANTEL TREATMENT ON THE GENETIC DIVERSITY OF *SCHISTOSOMA MANSONI* INFECTIONS IN PRIMARY SCHOOL CHILDREN WITHIN MAYUGE DISTRICT, UGANDA

Poppy H. Lambertson¹, Alice J. Norton¹, Alan Fenwick¹, Narcis Kabatereine², Joanne P. Webster¹

¹Imperial College London, London, United Kingdom, ²Vector Control Division, Ministry of Health, Kampala, Uganda

2 p.m.

753

INTEGRATION OF LASER MICRODISSECTION AND MICROARRAY ANALYSIS FOR TISSUE SPECIFIC GENE EXPRESSION PROFILES OF *SCHISTOSOMA JAPONICUM*

Geoffrey N. Gobert

Queensland Institute for Medical Research, Brisbane, Australia

2:15 p.m.

754

THE IDENTIFICATION OF PUTATIVE MOLECULAR PATHWAYS REGULATING *SCHISTOSOMA MANSONI* MIRACIDIAL TRANSFORMATION BY THE USE OF A HIGH-THROUGHPUT SMALL-MOLECULE SCREEN

Andrew S. Taft, Timothy P. Yoshino

UW-Madison, Madison, WI, United States

2:30 p.m.

755

NEW SCHISTOSOMIASIS DRUGS

Alexander Doemling¹, Sanaa Botros²

¹University of Pittsburgh, Pittsburgh, PA, United States,

²Theodor Bilharz Institute, Imbaba, Giza, Egypt

2:45 p.m.

756

RANDOMIZED DOUBLE BLIND CLINICAL TRIAL, COMPARING THE EFFECTIVENESS OF ARTESUNATE+SULFAMETHOXYPIRAZINE/PYRIMETHAMINE VERSUS PRAZIQUANTEL IN THE TREATMENT OF *SCHISTOSOMA HAEMATOBIIUM* IN MALIAN CHILDREN

Mahamadou S. Sissoko

MRTC, Bamako, Mali

3 p.m.

757

MOLECULAR AND BIOCHEMICAL CHARACTERIZATION OF *SCHISTOSOMA MANSONI* CAMP-DEPENDENT PROTEIN KINASE (PKA): A POTENTIAL NEW DRUG TARGET

Brett E. Swierczewski, Stephen J. Davies

Uniformed Services University of the Health Sciences, Department of Microbiology and Immunology, Bethesda, MD, USA

Exhibit Hall Open

Napoleon Ballroom

Tuesday, December 9, 3 p.m. – 4 p.m.

Coffee Break

Napoleon Ballroom

Tuesday, December 9, 3:15 p.m. – 3:45 p.m.



Symposium 97

Status of Phase 1 and Phase 2 Clinical Trials of Dengue Vaccines

Gallery

Tuesday, December 9, 3:45 p.m. – 5:30 p.m.

The pipeline of dengue vaccine candidates is progressing rapidly, and Phase I/II clinical trials in dengue-exposed populations have begun. Candidate dengue vaccines in clinical stages of development include live vaccines attenuated by passage in cell lines or constructed as live flavivirus chimeras. In his introduction, the chair will review the current pipeline of dengue vaccines in development, summarize the unique safety issues surrounding deployment of dengue vaccines, and justify the need to provide simultaneous protection against the four dengue serotypes. After this introduction, each of the three leading, live-attenuated vaccine candidates will be discussed in separate presentations, to include updates on vaccine safety and immunogenicity in healthy adult and pediatric (if tested) volunteers in the U.S. and several dengue-endemic countries. The fourth talk will be a discussion of the issues and progress made in providing future field sites for Phase 3 efficacy trials of dengue vaccines.

CHAIR

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

3:45 p.m.

INTRODUCTION

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

3:55 p.m.

TETRAVALENT, PDK-DERIVED, LIVE-ATTENUATED VACCINE CANDIDATES

Stephen Thomas
Armed Forces Research Institute of the Medical Sciences, Bangkok, Thailand

4:20 p.m.

SAFETY AND IMMUNOGENICITY IN CHILDREN AND ADULTS FROM ENDEMIC COUNTRIES AND ADULTS FROM NONENDEMIC COUNTRIES OF A TETRAVALENT, LIVE ATTENUATED DENGUE VACCINE

Alain Bouckenooghe
sanofi pasteur, Swiftwater, PA, United States

4:45 p.m.

NIAID CHIMERIC VACCINE CANDIDATES

Anna Durbin
Johns Hopkins University, Baltimore, MD, United States

5:10 p.m.

THE DEVELOPMENT OF FUTURE FIELD SITES FOR PHASE 3 EFFICACY TRIALS

Bill Letson
Pediatric Dengue Vaccine Initiative, Seoul, Republic of Korea

Symposium 98

Plasmodium vivax: Beyond the Genome

Rhythms III/III

Tuesday, December 9, 3:45 p.m. – 5:30 p.m.

This symposium will review and update the progress of genomic studies in the human malaria parasite *P. vivax* since the unraveling of its genome. The developments in the *P. vivax* genomic studies will be discussed in parallel to the more extensively studied species *P. falciparum*. A review and discussion of the extent of genetic diversity in the *P. vivax* will be presented, as well as how this information can be utilized to understand the biology, pathogenesis and evolutionary aspects of this organism. Finally, applications of these findings on investigations of human infection with *P. vivax* will be discussed. It is the goal of this symposium to explore how population genetic approaches can reveal mechanisms of malaria disease, pathogenesis and evolution.

CHAIR

Nadira D. Karunaweera
University of Colombo, Colombo, Sri Lanka

Marcelo U. Ferreira
University of Sao Paulo, Sao Paulo, Brazil

3:45 p.m.

PLASMODIUM VIVAX: GENOME AND COMPARATIVE GENOMICS

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

4:10 p.m.

GENETIC DIVERSITY IN PLASMODIUM VIVAX

Nadira Karunaweera
Faculty of Medicine, University of Colombo, Colombo, Sri Lanka
Marcelo Ferreira
University of Sao Paulo, Sao Paulo, Brazil

4:35 p.m.

APPLICATION OF GENOMICS TO THE STUDY OF BIOLOGY AND VACCINE DEVELOPMENT IN PLASMODIUM VIVAX

John W. Barnwell
Centers for Disease Control and Prevention, Atlanta, GA, United States

5 p.m.

MOLECULAR MARKERS OF ANTIMALARIAL DRUG RESISTANCE IN P. VIVAX FIELD ISOLATES

Ric Price
Menzies School of Health Research, Darwin, Australia

Tuesday, December 9

Symposium 99

Measurement and Prediction of Malaria Treatment Outcome: Parasite, Drug and Host Factors

Waterbury

Tuesday, December 9, 3:45 p.m. – 5:30 p.m.

Reliable methods to measure and predict the usefulness of therapies are needed for effective malaria treatment policies. Malaria treatment outcome is determined by parasite (susceptibility to the drug(s) used), pharmacological (drug pharmacokinetics, PK and dynamics, PD) and host factors (ability to deal with parasites and their effects). These can be assessed by molecular methods (molecular markers in the parasite related to drug resistance; genetic markers in the host related to resistance to infection and parasite clearance); *in vitro* assays to measure parasite susceptibility to drugs; *in vivo* clinical trials in patients to assess response to treatment; measurement of drug levels. Information on the correlation between these methods is incomplete. To date, no single method available alone can provide the information needed and predict how a patient will respond to treatment. Leading experts will review the current protocols for the *in vitro* and molecular measurements of antimalarial drug resistance and discuss limitations and how these relate to the other factors involved with treatment outcome in patients.

CHAIR

Abdulaje Djimde
University of Bamako, Bamako, Mali

Olumide Ogundahunsi
World Health Organization, Geneva, Switzerland

3:45 p.m.

METHODOLOGICAL ISSUES WITH THE ANALYSIS OF CRUDE AND PCR-ADJUSTED OUTCOMES IN MALARIA CLINICAL TRIALS

Elisabeth Ashley
Epicentre, Paris, France

4:10 p.m.

MOLECULAR TOOLS FOR GENOTYPING ISOLATES AND CHARACTERIZING RESISTANCE IN MALARIA TRIALS

Kefas Mugittu
Novartis Institute of Tropical Diseases, Singapore, Singapore

4:35 p.m.

MOLECULAR/*IN VIVO* CORRELATES OF ANTIMALARIAL TREATMENTS

Stéphane Picot
University Claude Bernard, Lyon, France

5 p.m.

PHARMACOKINETIC/PHARMACODYNAMIC CORRELATES OF ANTIMALARIAL TREATMENTS

Karen Barnes
University of Cape Town, Cape Town, South Africa

Scientific Session 100

Malaria – Drug Development

Napoleon A123

Tuesday, December 9, 3:45 p.m. – 5:30 p.m.

CHAIR

Myaing M. Nyunt
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

Bryan L. Smith
Walter Reed Army Institute of Research, Silver Spring, MD, United States

3:45 p.m.

758

ANTI-MALARIAL ACTIVITY OF MIRINCAMYCIN AND ITS ANALOGS *IN VITRO* AND IN AN *IN VIVO* PRESUMPTIVE CAUSAL PROPHYLACTIC MOUSE MODEL

Susan Fracisco¹, Yarrow Rothstein¹, Montip Gettayacamin², Richard Westerman³, Colin Ohrt¹
¹Walter Reed Army Institute of Research Experimental Therapeutics, Silver Spring, MD, United States, ²Armed Forces Research Institute of the Medical Sciences, Bangkok, Thailand, ³MALDEVCO, LLC, Kalamazoo, MI, United States

4 p.m.

759

MALARIA-INFECTED MICE ARE CURED BY NEW TRIOXANE DIMERS

Gary H. Posner
Johns Hopkins University, Baltimore, MD, United States

4:15 p.m.

760

OPTIMIZATION OF DUAL-FUNCTION ACRIDONE ANTIMALARIALS: IMPROVED EFFICACY AND SYNERGY WITH PIPERAQUINE

Jane X. Kelly¹, Martin Smilkstein¹, Victor Melendez², Roland Cooper³, Rolf Winter¹, Dave Hinrichs¹, Mike Riscoe¹
¹Portland VA Medical Center, Portland, OR, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³Old Dominion University, Norfolk, VA, United States

4:30 p.m.

761

RANDOMIZED CROSSOVER TRIAL TO EXAMINE THE SAFETY AND PHARMACOKINETICS OF 2100 MG DOSE OF AQ-13 AND THE FOOD EFFECT ON ITS BIOAVAILABILITY

Fawaz Mzayek¹, Haiyan Deng¹, Vidya Mave¹, Azam Hadi¹, Juan J. Lertora², Donald J. Krogstad¹
¹Tulane University, New Orleans, LA, United States, ²National Institutes of Health, Bethesda, MD, United States

4:45 p.m.

762

ASSESSMENT OF THE CAUSAL PROPHYLACTIC ACTIVITY OF DB289 IN HEALTHY VOLUNTEERS CHALLENGED WITH *PLASMODIUM FALCIPARUM*

Myaing M. Nyunt¹, Craig W. Hendrix², Rahul Bakshi², Nirbhay Kumar¹, Theresa A. Shapiro²

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

5 p.m.

763

A PHASE II, RANDOMIZED, OPEN-LABEL, DOSE-RANGING STUDY OF GMP INTRAVENOUS ARTESUNATE FOR OPTIMIZING PARASITE CLEARANCE IN UNCOMPLICATED *P. FALCIPARUM* MALARIA

Bryan L. Smith¹, Mark E. Polhemus¹, Krisada Jongsakul², Bernhards Ogutu³, Peter J. Weina¹, R. Scott Miller¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ³United States Army Medical Research Unit-Kenya, Nairobi, Kenya

5:15 p.m.

764

CHLORPROGUANIL-DAPSONE-ARTESUNATE VS. ARTEMETHER-LUMEFANTRINE: A RANDOMISED, DOUBLE-BLIND PHASE III TRIAL FOR THE TREATMENT OF ACUTE, UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA IN AFRICAN CHILDREN AND ADOLESCENTS

Zul Premji¹, Rich E. Umeh², Seth Owusu-Agyei³, Fabian Esamai⁴, Emmanuel Ezedinachi⁵, Stephen Oguche⁶, Steffen Borrmann⁷, Akintunde Sowunmi⁸, Stephan Duparc⁹, Paula L. Kirby¹⁰, Allan Pamba¹¹, Lynda Kellam¹¹, Robert Guiguemdé¹², Brian Greenwood¹³, Stephen A. Ward¹⁴, Peter A. Winstanley¹⁵

¹Ifakara Health Research and Development Center, Ifakara, Kilombero, Morogoro, United Republic of Tanzania, ²University of Nigeria College of Medicine, Enugu Campus, Enugu, Nigeria, ³Kintampo Health Research Centre, Kintampo, Ghana, ⁴Department of Child Health and Paediatrics, Faculty of Health Sciences, Moi University, Eldoret, Kenya, ⁵Institute of Tropical Diseases Research and Prevention, University of Calabar Teaching Hospital, Calabar, Nigeria, ⁶Department of Paediatrics, Jos University Teaching Hospital, Jos, Plateau State, Nigeria, ⁷Kenya Medical Research Institute (KEMRI)/Wellcome Trust Research Programme, Kilifi, Kenya, and University of Heidelberg School of Medicine, Germany, ⁸Malaria Research Laboratories, Institute for Advanced Medical Research and Training, College of Medicine, University of Ibadan, Ibadan, Nigeria, ⁹Formerly at GlaxoSmithKline, Greenford, United Kingdom, now at Medicines for Malaria Venture, Geneva, Switzerland, ¹⁰GlaxoSmithKline, Stockley Park West, Middlesex, United Kingdom, ¹¹GlaxoSmithKline, Greenford, Middlesex, United Kingdom, ¹²Centre Muraz, Bobo-Dioulasso, Burkina Faso, ¹³Department of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, London, United Kingdom, ¹⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ¹⁵School of Clinical Sciences, University of Liverpool, Liverpool, United Kingdom

Scientific Session 101

Mosquitoes – Vector Biology – Epidemiology II

Bayside BC

Tuesday, December 9, 3:45 p.m. – 5:30 p.m.

CHAIR

Kelsey M. Deus
Colorado State University, Fort Collins, CO, United States

Kevin C. Kobylinski
Colorado State University, Fort Collins, CO, United States

3:45 p.m.

765

INSENSITIVE ACETYLCHOLINESTERASE (ACE-1st) OF *ANOPHELES GAMBIAE* S.S.: EVENTS OF INTROGRESSION AND DUPLICATION BETWEEN THE M AND S MOLECULAR FORMS

Djogbénu S. Luc¹, Mylène Weill², Jean-Marc Hougard¹, Martin Akogbéto³, Fabrice Chandre¹

¹Institut de Recherche pour le Développement/Centre de Recherche Entomologique de Cotonou, Cotonou, Benin, ²Centre National de Recherche Scientifique, Institut des Sciences de l'Evolution, Equipe Génétique de l'Adaptation, Montpellier, France, ³Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

4 p.m.

766

ENTOMOLOGICAL EVALUATION OF PERMETHRIN IMPREGNATED BEDNETS AGAINST *AN. DARLINGI* IN THE PERUVIAN AMAZON

Elvira Zamora Perea¹, Wagner Orellana Rios¹, Ernesto Curto¹, Yuri Alegre Palomino², Victor Lopez Sifuentes³, Norma Padilla⁴, **Gregor J. Devine**⁵

¹Laboratorio de Salud Pública, Iquitos, Peru, ²Dirección General de Salud Ambiental, Iquitos, Peru, ³Naval Medical Research Center Detachment, Iquitos, Peru, ⁴Universidad del Valle de Guatemala, Guatemala City, Guatemala, ⁵Rothamsted Research, Harpenden, United Kingdom

4:15 p.m.

767

SPATIO-TEMPORAL ORDERING OF A CHAGAS DISEASE VECTOR ELIMINATION CAMPAIGN

Michael Z. Levy¹, Fernando Malaga², Juan G. Cornejo del Carpio³, Ellis McKenzie¹, Joshua B. Plotkin⁴

¹Fogarty International Center, National Institutes of Health, Bethesda, MD, United States, ²Region de Salud, Arequipa, Peru, ³Region de Salud, Arequipa, Peru, ⁴University of Pennsylvania, Philadelphia, PA, United States

4:30 p.m.

768

EFFECTS OF FOREST FRAGMENTATION ON RELATIVE ABUNDANCE, BLOOD MEAL SPECIES COMPOSITION, AND TRYPANOSOME INFECTION OF THE CHAGAS DISEASE VECTOR *RHODNIUS PALLESCENS* IN A PANAMANIAN LANDSCAPE

Nicole L. Gottdenker¹, Ana María Santamaría², Jose Calzada², Azael Saldaña², Vanessa Pineda², C. Ronald Carroll³
¹Odum School of Ecology, University of Georgia, Athens, GA, United States, ²Instituto Conmemorativo Gorgas de Estudios de la Salud, Panama City, Panama, ³Odum School of Ecology, University of Georgia, Athens, GA, United States

4:45 p.m.

769

THE EFFECT OF IVERMECTIN (MECTIZAN®) TREATMENT OF HUMANS ON FIELD-CAUGHT BLOODFED *ANOPHELES SPP.* SURVIVAL RATES IN SENEGAL

Kevin C. Kobylinski¹, Massamba Sylla², Jason Meckel¹, Brian D. Foy¹
¹Colorado State University, Fort Collins, CO, United States, ²Centre IRD de Hann, Dakar, Senegal

5 p.m.

770

DEVELOPMENT OF A MOSQUITOCIDAL VACCINE AGAINST *AE. AEGYPTI* USING THE MOSQUITO LYSOSOMAL ASPARTIC PROTEASE (MLAP) AS AN IMMUNIZATION ANTIGEN

Kelsey M. Deus¹, Tereza Magalhaes², Brian D. Foy¹
¹Colorado State University, Fort Collins, CO, United States, ²Cidade Universitaria, Recife, Brazil

5:15 p.m.

771

DEVELOPMENT OF CONTROLLED VOCABULARIES AND ONTOLOGIES FOR SURVEILLANCE AND CONTROL OF VECTORS OF HUMAN DISEASE AGENTS

Marlize Coleman¹, Lars Eisen¹, Saul Lozano-Fuentes¹, Sanika Chitari¹, Chester G. Moore¹, Natasha Morris², Michael Coleman²
¹Colorado State University, Fort Collins, CO, United States, ²Medical Research Council, Durban, South Africa

Scientific Session 102

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Molecular Parasitology II

Supported with funding from The Burroughs Wellcome Fund

Grand Ballroom A

Tuesday, December 9, 3:45 p.m. – 5:30 p.m.

CHAIR

Ian H. Cheeseman
 MRC Gambia, Banjul, Gambia

Jennifer S. Sims
 Harvard School of Public Health, Boston, MA, United States

3:45 p.m.

1236

VALIDATION OF PLASMODIUM FALCIPARUM ISOLEUCYL TRNA SYNTHETASE AS A DRUG TARGET

Eva S. Istvan, Daniel E. Goldberg

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

4 p.m.

772

PLASMODIUM FALCIPARUM MOLECULAR BARCODE ASSESSMENT OF PARASITES SEQUESTERED IN TISSUES AT AUTOPSY

Danny A. Milner¹, Jacqui Montgomery², Rachel Daniels³, Kayla Barnes⁴, David Rosen⁴, Nira Mahesh⁴, Steve Kamiza⁵, Malcolm Molyneux², Sarah Volkman⁴, Roger Wiegand³, Terrie Taylor⁶, Dyann Wirth⁴
¹The Brigham and Women's Hospital, Boston, MA, United States, ²Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ³The Broad Institute, Cambridge, MA, United States, ⁴Harvard School of Public Health, Boston, MA, United States, ⁵University of Malawi College of Medicine, Blantyre, Malawi, ⁶Michigan State University, East Lansing, MI, United States

4:15 p.m.

773

GENOME-WIDE SURVEY OF GENE COPY NUMBER VARIATION IN THE MALARIA PARASITE *PLASMODIUM FALCIPARUM*

Ian H. Cheeseman¹, Natalia Gomez-Escobar¹, Celine Carret², Alasdair Ivens², Kevin K. Tetteh³, Lindsay Stewart³, Micheal Walther¹, Dominic Kwiatkowski², David Conway¹
¹MRC Gambia, Banjul, Gambia, ²Wellcome Trust Sanger Institute, Cambridge, United Kingdom, ³London School of Hygiene and Tropical Medicine, London, United Kingdom



4:30 p.m.

774

ANALYSIS OF DRUG RESISTANCE USING *PLASMODIUM FALCIPARUM* GENETIC CROSSES

Juliana M. Sa, Olivia Twu, Karen Hayton, Pascal Ringwald, Thomas E. Wellems
National Institutes of Health, Rockville, MD, United States

4:45 p.m.

1237

PROBING CENTRAL CARBON METABOLISM IN *PLASMODIUM FALCIPARUM*

Kellen Olszewski¹, Joshua D. Rabinowitz², Manuel Llinás¹
¹*Molecular Biology and Lewis-Sigler Institute for Integrative Genomics, Princeton University, Princeton, NJ, United States*,
²*Chemistry and Lewis-Sigler Institute for Integrative Genomics, Princeton University, Princeton, NJ, United States*

5 p.m.

775

INSIGHTS INTO GENE EXPRESSION THROUGH ANALYSIS OF TRANSCRIPTIONAL ACTIVITY DURING THE INTRAERYTHROCYTIC DEVELOPMENTAL CYCLE OF *PLASMODIUM FALCIPARUM*

Jennifer S. Sims¹, Kevin T. Militello², Peter A. Sims³, Vishal P. Patel¹, Jacob M. Kasper¹, Dyann F. Wirth¹
¹*Harvard School of Public Health, Boston, MA, United States*,
²*State University of New York at Geneseo, Geneseo, NY, United States*,
³*Harvard University, Cambridge, MA, United States*

5:15 p.m.

776

IDENTIFICATION OF BIOLOGICAL PATHWAYS CRITICAL FOR MALARIA PARASITE DEVELOPMENT, THROUGH TRANSPOSON-MEDIATED MUTAGENESIS

Bharath Balu, Steven P. Maher, Chitra Chauhan, John H. Adamas
University of South Florida, Tampa, FL, United States

Scientific Session 103

Ectoparasite-Borne Diseases

Grand Ballroom B

Tuesday, December 9, 3:45 p.m. – 5:30 p.m.

CHAIR

Philip McCall
Liverpool School of Tropical Medicine, Liverpool, United Kingdom
Kathryn E. Reif
Louisiana State University, Baton Rouge, LA, United States

3:45 p.m.

777

INVESTIGATION OF AN OUTBREAK OF A FATAL FEBRILE ILLNESS IN GUATEMALA, 2007

Marina E. Ereemeeva¹, Gregory A. Dasch¹, Elsa Berganza², Lorena Gubern², Erica Dueger³, Carlos Alonso⁴, Leticia Castillo², Lissette Reyes², Kimberly Lindblade⁵, Gloria Suarez⁴
¹*Division of Viral and Rickettsial Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States*,
²*Ministry of Public Health and Social Welfare, Guatemala City, Guatemala*,
³*Division of Emerging Infections & Surveillance Services, Centers for Disease Control and Prevention, Atlanta, GA, United States*,
⁴*Field Epidemiology Training Program, Coordinating Office of Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States and CDC Regional Office for Central America and Panama, Guatemala City, Guatemala*,
⁵*Division of Emerging Infections & Surveillance Services, Centers for Disease Control and Prevention, Atlanta, GA, United States and CDC Regional Office for Central America and Panama, Guatemala City, Guatemala*

4 p.m.

778

TBRF IN EAST AFRICA: EPIDEMIOLOGY AND CLINICAL DIAGNOSIS IN CENTRAL TANZANIA

Philip J. McCall
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

4:15 p.m.

779

QUANTUM OF TULAREMIA INFECTION WITHIN QUESTING DOG TICKS

Heidi K. Goethert, Sam R. Telford
Tufts University School of Veterinary Medicine, N. Grafton, MA, United States

4:30 p.m.

780

IDENTIFICATION OF BACTERIAL PATHOGENS AND HOSTS OF BLOOD MEALS IN QUESTING IXODID TICKS IN THE NORTH CAROLINA PIEDMONT

Michael P. Smith¹, Loganathan Ponnusamy¹, Allen Richards²,
Charles S. Apperson¹
¹*N.C. State University, Raleigh, NC, United States*,
²*Naval Medical Research Unit, Silver Spring, MD, United States*

4:45 p.m.

781

ISOLATION OF *FRANCISELLA TULARENSIS TULARENSIS* SUBPOPULATION A.I. FROM MISSOURI LONE STAR TICKS

Zenda L. Berrada, Heidi K. Goethert, Sam R. Telford, III
Tufts Cummings School of Veterinary Medicine, North Grafton, MA, United States

Tuesday, December 9

5 p.m.

782

EARLY INNATE IMMUNE EVENTS IN THE SKIN AFTER TRANSMISSION OF *YERSINIA PESTIS* BY FLEAS

Christopher F. Bosio, Clayton O. Jarrett, B. Joseph Hinnebusch
*Rocky Mountain Laboratories, National Institutes of Health,
 Hamilton, MT, United States*

(ACMCIP Abstract)

5:15 p.m.

783

RICKETTSIA FELIS INFECTION IN A MURINE MODEL

Kathryn E. Reif, Rhett W. Stout, Timothy W. Morgan, Kevin R. Macaluso
Louisiana State University, Baton Rouge, LA, United States

(ACMCIP Abstract)

Symposium 104**Clinical Group II***Grand Ballroom C***Tuesday, December 9, 3:45 p.m. – 5:30 p.m.**

This session features a malaria update and travel vaccine update.

CHAIR

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

3:45 p.m.

MALARIA PREVENTION UPDATE FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION

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

4:20 p.m.

TRAVELERS' VACCINE UPDATE FROM THE CENTERS FOR DISEASE CONTROL AND PREVENTION

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

4:55 p.m.

CLINICAL GROUP ANNUAL BUSINESS MEETING

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

Symposium 105**Development of *Plasmodium falciparum* Vaccines Based on Variant Surface Antigens***Grand Ballroom D***Tuesday, December 9, 3:45 p.m. – 5:30 p.m.**

Variant surface antigens (VSA) mediate the receptor-specific adhesion of *Plasmodium falciparum*-infected red blood cells (iRBC) and are key to the pathogenesis of *P. falciparum* malaria. These antigens are targeted by acquired antibodies that predict protection from infection and disease. Although this makes them attractive vaccine candidates, vaccine development is hindered by the extensive inter- and intraclonal diversity of the best-known VSA family called PfEMP1 (*P. falciparum* erythrocyte membrane protein 1), and the capacity of *P. falciparum* to switch among transcription of PfEMP1 family members that encode antigenically and functionally distinct adhesive proteins. Strategies for VSA vaccine development include defining the key VSA epitopes that mediate iRBC adhesion or are targeted by broadly reactive inhibitory antibodies. This requires the identification of the host receptors that are involved in severe *P. falciparum* malaria. Two multinational consortia are currently tackling these issues in a coordinated effort to design VSA-based vaccines. The Pregnancy Malaria Initiative is systematically assessing immunogens for a vaccine against pregnancy-associated malaria, with a focus on the VAR2CSA member of the PfEMP1 family. Pregnancy-associated malaria is a major cause of morbidity and mortality for mothers, fetuses and infants. The Severe Malaria Grand Challenges in Global Health consortium is engaged in a parallel effort aimed at characterizing the VSA and host receptors involved in the pathogenesis of life-threatening malaria complications in small children. The symposium is composed of four presentations by lead scientists in these consortia. Each talk will give particular attention to a key aspect of their endeavors to develop *P. falciparum* vaccines based on variant surface antigens.

CHAIR

Lars Hviid
*University of Copenhagen and Rigshospitalet, Copenhagen,
 Denmark*

3:45 p.m.

INTRODUCTION

Lars Hviid
University of Copenhagen, Copenhagen, Denmark

4 p.m.

VARIANT SURFACE ANTIGEN DIVERSITY AND CONSERVATION

Joseph D. Smith
Seattle Biomedical Research Institute, Seattle, WA, United States

4:20 p.m.

MECHANISMS OF VAR GENE SWITCHING

Artur Scherf
Institut Pasteur, Paris, France

4:40 p.m.

MAPPING OF EPITOPES IN VARIANT SURFACE ANTIGENS

Ali Salanti
*University of Copenhagen and Rigshospitalet, Copenhagen,
 Denmark*



5:05 p.m.

MEASURING AND INTERFERING WITH INFECTED RED BLOOD CELL ADHESION

Patrick E. Duffy
Seattle Biomedical Research Institute, Seattle, WA, United States

Scientific Session 106

Helminthic Coinfections

Grand Ballroom E

Tuesday, December 9, 3:45 p.m. – 5:30 p.m.

CHAIR

Subash Babu
National Institutes of Health, Bethesda, MD, United States

W. Evan Secor
Centers for Disease Control, Atlanta, GA, United States

3:45 p.m.

784

A COHORT STUDY EVALUATING IMMUNOLOGICAL AND CLINICAL CONSEQUENCES OF THE CO-INFECTION HTLV-1 AND SCHISTOSOMA MANSONI

Aurelia Porto, Silvane B. Santos, Isadora Siqueira, Andre Luiz Muniz, **Edgar M. Carvalho**
Federal University of Bahia, Salvador, Brazil

4 p.m.

785

HELMINTH INFECTIONS DURING PREGNANCY IS ASSOCIATED WITH IMPAIRED HIB VACCINE RESPONSES IN KENYAN INFANTS

John Kioko¹, Indu Malhotra², Peter Mungai², Alex Wamachi³, A. Desiree LaBeaud², John Ouma¹, Davy Koech³, Eric Muchiri¹, **Christopher L. King**²

¹Division of Vector Borne Diseases, Nairobi, Kenya, ²Case Western Reserve University, Cleveland, OH, United States, ³Kenya Medical Research Institute, Nairobi, Kenya

4:15 p.m.

786

INHIBITION OF TYPE I DIABETES IN FILARIA INFECTED NOD MICE IS ASSOCIATED WITH A TH2 SHIFT AND INDUCTION OF REGULATORY T CELLS

Marc P. Hübner, Marina N. Torrero, David Larson, J. Thomas Stocker, Edward Mitre
Uniformed Services University of the Health Sciences, Bethesda, MD, United States

4:30 p.m.

787

INFLUENCE OF PRE-EXISTING FILARIAL INFECTION ON THE INCIDENCE AND SEVERITY OF CLINICAL MALARIA IN CHILDREN AND YOUNG ADULTS IN A COENDEMIC REGION OF MALI

Benoit Dembele¹, Housseini Dolo¹, Siaka Konate¹, Siaka Y. Coulibaly¹, Dramane Sanogo¹, Simon Metenou², Siddhartha Mahanty², Michel E. Coulibaly¹, Lamine Soumaoro¹, Salif S. Doumbia¹, Marissa Wagner³, Boubacar Guindo¹, Abdallah A. Diallo¹, Aldiouma Guindo¹, Seidina Diakite¹, Merepin A. Guindo¹, Renion Saye¹, Ousmane Kante¹, Dapa A. Diallo¹, Sekou F. Traore¹, Thomas B. Nutman², Yaya I. Coulibaly¹, **Amy D. Klion**²
¹Faculty of Medicine, Pharmacy and Dentistry, University of Bamako, Bamako, Mali, ²National Institutes of Health, Bethesda, MD, United States, ³Harvard Medical School, Boston, MA, United States

4:45 p.m.

788

T LYMPHOCYTE SUBSETS IN CHILDREN WITH SCHISTOSOMIASIS MANSONI COMPARED TO CHILDREN WITH SCHISTOSOMA MANSONI AND PLASMODIUM FALCIPARUM CO-INFECTIONS IN WESTERN KENYA

Erick M. Muok¹, Pauline N. Mwinzi¹, Carla L. Black², Jennifer M. Carter², Zopporah W. Ng'ang'a³, Michael M. Gicheru⁴, W. Evan Secor⁵, Diana M. Karanja¹, Daniel G. Colley²

¹Centre for Global Health Research, Kenya Medical Research Institute, Kisumu, Kenya, ²University of Georgia, Athens, GA, United States, ³Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya, ⁴Kenyatta University, Nairobi, Kenya, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

5 p.m.

789

WUCHERERIA BANCROFTI AND MANSONELLA PERSTANS INFECTIONS MAY PROTECT AGAINST P. FALCIPARUM INDUCED ANEMIA IN FILARIA/MALARIA CO-INFECTED POPULATIONS

Benoit Dembele¹, Siaka Konate¹, Housseini Dolo¹, Dramane Sanogo¹, Siaka Y. Coulibaly¹, Michel E. Coulibaly¹, Lamine Soumaoro¹, Simon Metenou², Salif S. Doumbia¹, Abdallah Diallo¹, Yaya I. Coulibaly¹, Sekou F. Traore¹, Amy Klion², Thomas B. Nutman², Siddhartha Mahanty²

¹Filariasis Unit, FMPOS, University of Bamako, Bamako, Mali, ²LPD, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States

Tuesday, December 9

Plenary Session 107

Plenary Session III: Commemorative Fund Lecture

Grand Ballroom C

Tuesday, December 9, 6 p.m. – 6:45 p.m.

The ASTMH Commemorative Fund Lecture is presented annually by an invited senior researcher in the tropics.

CHAIR

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

RESEARCH, DEVELOPMENT AND INNOVATION ON NEGLECTED DISEASES: A DEVELOPING COUNTRY PERSPECTIVE

Carlos Morel
Oswaldo Cruz Foundation, Rio de Janeiro, Brazil

Poster Session B Dismantle

Armstrong Ballroom

Tuesday, December 9, 7 p.m. – 8 p.m.

Satellite Symposium

The Search for Synergistic Interactions between Antimalarial Agents: A Review of *in vitro* and *in vivo* Approaches and Current Prospects for the Development of Synergistic Combinations

Sponsored by Pfizer, Inc.

Gallery

Tuesday, December 9, 7 p.m. – 8:15 p.m.

The recent move toward worldwide implementation of artemisinin-based combination therapies (ACTs), as a replacement for the former first-line antimalarials chloroquine and sulfadoxine-pyrimethamine, has focused attention on how to identify the most suitable ACTs. Synergy between combination partners is a particularly desirable property. This symposium will present a series of talks that dissect issues relating to the study and identification of synergistic, additive or antagonistic interactions between antimalarials. Factors affecting the experimental investigation and definition of synergy will be explored, and current knowledge about synergistic interactions between distinct classes of antimalarials will be presented. The symposium will also discuss clinical investigations that have permitted an investigation into the clinical efficacy of synergistic drug combinations, and provide a perspective on promising avenues to develop new antimalarial combinations that partner compounds with synergistic modes of action.

CHAIR

David Fidock
Columbia University, New York, NY, United States

INVESTIGATIONS INTO AND DEFINITIONS OF ANTIMALARIAL DRUG SYNERGISM AND ANTAGONISM

Angus Bell
Trinity College, Dublin, Ireland

SYNERGISTIC INTERACTIONS BETWEEN DISTINCT CLASSES OF ANTIMALARIALS

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

INVESTIGATIONS INTO POSSIBLE SYNERGISTIC INTERACTIONS BETWEEN AZITHROMYCIN AND QUINOLINE-BASED ANTIMALARIALS

David Fidock
Columbia University, New York, NY, United States

DOES SYNERGY CONTRIBUTE TO EFFICACY WITH ANTIMALARIAL COMBINATION THERAPIES IN CLINICAL USE?

Harald Noedl
Medical University of Vienna, Vienna, Austria.

PROSPECTS OF DEVELOPING NOVEL ANTIMALARIAL COMBINATIONS USING SYNERGISTIC PARTNER DRUGS

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

Satellite Symposium

Dihydroartemisinin/Piperaquine: An Innovative ACT in the Treatment of *P. falciparum* Malaria

Sponsored by Medicines for Malaria Venture and sigma-tau

Grand Ballroom A

Tuesday, December 9, 7 p.m. – 8:15 p.m.

Malaria is a widespread disease prevalent in many developing countries. Dihydroartemisinin/Piperaquine (DHA + PQP) is a fixed-ratio drug combination developed to treat uncomplicated *P. falciparum* malaria. It can be given in a once a day dosing over three days. This session reports on two Phase III comparative trials with DHA + PQP versus artesunate/mefloquine (AS+MQ), and artemether/lumefantrine (A+L), as well as the pharmacokinetics. These studies included over 2,500 patients in different epidemiological settings in Africa and Asia. The results demonstrate that DHA + PQP is an effective and well tolerated treatment for uncomplicated *P. falciparum* malaria, showing also significantly higher cure-rate at day 42 versus A+L and at day 63 versus AS+MQ. These findings, from one of the largest pivotal trials conducted for an innovative antimalarial, provide significant insights into the usage of ACTs in the treatment of uncomplicated *P. falciparum* malaria.

CHAIR

Nicholas White
Mahidol University, Faculty of Tropical Medicine, Bangkok, Thailand

Christopher Hentschel
Medicines for Malaria Venture, Geneva, Switzerland

PHARMACOKINETICS OF PIPERAQUINE AND DIHYDROARTEMISININ

Allan Evans
University of South Australia, Adelaide, Australia

PHASE III, RANDOMIZED, NON-INFERIORITY TRIAL OF DIHYDROARTEMISININ/PIPERAQUINE IN COMPARISON WITH ARTEMETHER/LUMEFANTRINE IN AFRICAN CHILDREN

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



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PHASE III, RANDOMIZED, NON-INFERIORITY TRIAL OF DIHYDROARTEMISININ/PIPERAQUINE IN COMPARISON WITH ARTESUNATE/MEFLOQUINE IN PATIENTS IN ASIA

Neena Valecha
National Institute of Malaria Research, Delhi, India

COMPARING THE PERSPECTIVE OF THE EPIDEMIOLOGIST WITH THAT OF THE REGULATOR

Antonella Bacchieri
sigma-tau, Pomizia, Italy

Satellite Symposium

The Positive Impact of Artemether/Lumefantrine on Malaria Morbidity and Mortality

Sponsored by Novartis Pharma AG.

Grand Ballroom D

Tuesday, December 9, 7 p.m. – 8:15 p.m.

To date, 34 countries in Africa, Asia and Latin America have adopted Artemether/Lumefantrine (A/L) as first-line treatment for uncomplicated falciparum malaria. Since 1999, when A/L was first registered, over 200 million treatments have been used, the vast majority of them through public sector distribution. In 2001, the World Health Organization adopted a new policy on artemisinin-based combination therapy (ACTs), leading to scaling up of A/L. Widespread use of A/L started in 2005, resulting in a steady accumulation of solid data supporting its positive impact on malaria mortality and morbidity. Time-series data and community based studies are contributing to the growing body of evidence that case management with A/L significantly reduces the burden of malaria in a time where LLINs (long lasting insecticidal nets) coverage is improving but not yet achieving targets in most countries. This symposium will discuss health impact data from several African countries, including evaluation of safety.

CHAIR

Ambrose Talisuna
Ministry of Health, Kampala, Uganda

EPIDEMIOLOGICAL CHANGES IN MALARIA IN AFRICA – REAL OR A MIRAGE?

Ambrose Talisuna
Ministry of Health, Kampala, Uganda

THE IMPACT OF ARTEMETHER/LUMEFANTRINE COMMUNITY DEPLOYMENT ON MORTALITY AND MORBIDITY IN TIGRAY, ETHIOPIA AT TWO YEARS

Hailemariam Lemma
Tigray Health Bureau, Tigray, Ethiopia.

THE ALIVE STUDY – MEASURING THE IMPACT OF ARTEMETHER/LUMEFANTRINE IN VULNERABLE POPULATIONS IN TANZANIA

Blaise Genton
Ifakara Health Research and Development Center, Dar Es Salaam, United Republic of Tanzania

KENYAN HOSPITAL TIME-SERIES DATA TO MEASURE THE IMPACT OF ARTEMETHER/LUMEFANTRINE

Emelda Okiro
Wellcome Trust Collaborative Programme, Nairobi, Kenya

Wednesday, December 10

Registration

Napoleon Ballroom

Wednesday, December 10, 7 a.m. – 5 p.m.

Cyber Cafe

Lagniappe

Wednesday, December 10, 7 p.m. – 5 p.m.

Speaker Ready Room

Nottoway

Wednesday, December 10, 7 a.m. – 6 p.m.

ASTMH Past Presidents Meeting

Grand Couteau

Wednesday, December 10, 7 a.m. – 8 a.m.

Web Site Committee Meeting

Salon 816

Wednesday, December 10, 7 a.m. – 8 a.m.

Scientific Program Committee

Oak Alley

Wednesday, December 10, 7 a.m. – 8 a.m.

Symposium 108

Tick-Host-Pathogen Research in the Post-Genomic Era

Gallery

Wednesday, December 10, 8 a.m. – 9:45 a.m.

Tick genomics research is expanding dramatically with the Ixodes scapularis genome sequencing project and availability of expressed sequence tags (ESTs) from specific tissues and life cycle stages of several tick species. Speakers will focus on how this wealth of emerging data can be used to achieve more robust insights into tick genome organization, gene function, evolutionary relationships, modulation of the host environment, vector competence, control and physiological processes, including those not previously amenable to study.

CHAIR

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

Francisco Alarcon-Chaidez
University of Texas Medical Branch, Galveston, TX, United States

8 a.m.

TICK GENOME PROJECT AND BEYOND

Catherine A Hill
Purdue University, West Lafayette, IN, United States

Wednesday, December 10

8:25 a.m.**TICK NEUROBIOLOGY IN THE POST-GENOMIC ERA**

Alan Bowman
University of Aberdeen, Aberdeen, United Kingdom

8:50 a.m.**MOLECULAR DETERMINANTS OF TICK SUSCEPTIBILITY AND RESPONSE TO RICKETTSIA**

Kevin Macaluso
Louisiana State University, Baton Rouge, LA, United States

9:15 a.m.**COMPLEXITY OF THE TICK SALIVARY GLAND TRANSCRIPTOME AND PROTEOME**

Jose Ribeiro
National Institutes of Health, NIAID/LPD, Rockville, MD, United States

Symposium 109**Genital Schistosomiasis as a Risk Factor for HIV Transmission***Rhythms I***Wednesday, December 10, 8 a.m. – 9:45 a.m.**

Up to 75% of the women excreting *S. haematobium* eggs in the urine have been found to have schistosome eggs in the genital tract. *S. haematobium* is associated with sandy patches in the genital mucosa, as well as contact bleeding. The manifestations may mimic some of the sexually transmitted diseases, and the disease may be found to be associated with HIV. The symposium will address some of the key issues of the disease as a neglected public health problem for women and for men.

CHAIR

Eyrun F. Kjetland
Centre for Imported and Tropical Diseases, Oslo, Norway

8 a.m.**INTRODUCTION**

Eyrun F. Kjetland
Centre for Imported and Tropical Diseases, Oslo, Norway

8:10 a.m.**TREATMENT OF SCHISTOSOMIASIS AS INTERVENTION AGAINST HIV TRANSMISSION IN AFRICA**

Eyrun F. Kjetland
Centre for Imported and Tropical Diseases, Oslo, Norway

8:30 a.m.**THE RELATIONSHIP BETWEEN URINARY AND GENITAL SCHISTOSOMIASIS**

Patrcia D. Ndhlovu
University of Zimbabwe, Harare, Zimbabwe

8:55 a.m.**FEMALE GENITAL SCHISTOSOMIASIS AS A RISK FACTOR FOR HIV TRANSMISSION, A HISTOPATHOLOGICAL TAKE ON THE ISSUE**

Peter M. Jourdan
Centre for imported and Tropical Diseases, Oslo, Norway

9:20 a.m.**MALE GENITAL SCHISTOSOMIASIS AS A RISK FACTOR FOR HIV TRANSMISSION TO WOMEN – A NEW INTERVENTION POINT AGAINST HIV TRANSMISSION?**

Peter D. C. Leutscher
DBL Centre for Health and Research, Fredriksberg, Copenhagen, Denmark

Scientific Session 110**Malaria – Epidemiology I***Rhythms III/III***Wednesday, December 10, 8 a.m. – 9:45 a.m.****CHAIR**

Nakul Chitnis
Swiss Tropical Institute, Basel, Switzerland
 J.R. Poespoprodjo
District Health Authority, Darwin, Australia

8 a.m.**790****STEEP INCREASE IN CHILD SURVIVAL AFTER FOUR YEARS OF INTEGRATED MALARIA CONTROL IN BIKO ISLAND, EQUATORIAL GUINEA**

Immo Kleinschmidt¹, Christopher Schwabe², Luis Segura², Luis Benavente²

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Medical Care Development International, Silver Spring, MD, United States

8:15 a.m.**791****THE IMPACT OF HOME BASED MANAGEMENT OF MALARIA (HMM) ON UNDER FIVE MALARIA MORTALITY: THE RWANDAN EXPERIENCE**

Waltruda Van Doren¹, **Daniel Ngamije**², Corine K. Karema³, François Nyitegeka³, Jean B. Ahoranyezu⁴, Jean-Pierre Van geertruyden⁵

¹Malaria Control Programme of Rwanda/Belgian Technical Cooperation, Kigali, Rwanda, ²National Malaria Control Programme of Rwanda, Kigali, Rwanda, ³National Malaria Control Programme of Rwanda, Kigali, Rwanda, ⁴WHO, Kigali, Rwanda, ⁵Prince Leopold Instituut voor tropische geneeskunde, Antwerpen, Belgium

8:30 a.m.**792****COMPARISON OF THE EFFECTIVENESS OF ITNS, IRS, AND CHEMOTHERAPEUTIC INTERVENTIONS, IN REDUCING MALARIA TRANSMISSION, USED INDIVIDUALLY AND IN COMBINATION, THROUGH A MATHEMATICAL MODEL**

Nakul Chitnis¹, Allan Schapira¹, Thomas A. Smith¹, Richard Steketee²

¹Swiss Tropical Institute, Basel, Switzerland, ²PATH, Ferney-Voltaire, France



8:45 a.m.

793

IMPACT OF LARVICIDING ON MALARIA IN THE GAMBIA

Margaret Pinder¹, Silas Majambere¹, David Ameh², David Jeffries², Musa Jawara², Ann Kelly³, Clare Green⁴, Robert Hutchinson¹, David Conway², Steve Lindsay¹
¹Durham University, Durham, United Kingdom, ²MRC Laboratories, Banjul, Gambia, ³London School of Hygiene and Tropical Medicine, London, United Kingdom, ⁴Centre for Infectious Diseases and International Health, London, United Kingdom

9 a.m.

794

A CROSS-NATIONAL COMPARISON OF INSECTICIDE-TREATED NET HOUSEHOLD POSSESSION AND USE AMONG CHILDREN UNDER FIVE YEARS OLD AND PREGNANT WOMEN

Thomas P. Eisele, Joseph Keating, Megan Littrell, David Larsen, Kate Macintyre
Department of International Health and Development, Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States

9:15 a.m.

795

POTENTIAL CONTRIBUTION OF SERO-EPIDEMIOLOGICAL ANALYSIS FOR MALARIA ELIMINATION: HISTORICAL AND CURRENT PERSPECTIVES

Chris Drakeley¹, Jackie Cook¹, Patrick Corran², Jamie Griffin³, Lucy Okell¹, Azra Ghani³, Eleanor Riley¹
¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²NIBSC, South Mimms, United Kingdom, ³Imperial College, London, United Kingdom

9:30 a.m.

796

MULTIDRUG RESISTANT VIVAX MALARIA: A MAJOR CAUSE OF MORBIDITY IN EARLY LIFE

J.R. Poespoprodjo¹, W. Fobia², E. Kenangalem¹, D.A. Lampah¹, A. Hasanuddin³, N. Warikar², P. Sugiarto⁴, E. Tjitra⁵, N.M. Anstey⁶, R.N. Price⁶
¹District Health Authority, Timika, Papua, Indonesia, ²Menzies School of Health Research-National Institutes of Health Research and Development Malaria Research Program, Timika, Papua, Indonesia, ³Mitra Masyarakat Hospital, Timika, Papua, Indonesia, ⁴Mitra Masyarakat Hospita, Timika, Papua, Indonesia, ⁵National Institutes of Health Research and Development, Jakarta, Indonesia, ⁶Menzies School of Health Research, Darwin, Australia

Symposium 111

Predicting and Mitigating Outbreaks of Vector-Borne Disease Utilizing Satellite Remote Sensing Technology and Models

Waterbury

Wednesday, December 10, 8 a.m. – 9:45 a.m.

The symposium is designed to review progress in the effort to predict and mitigate vector-borne disease using remote sensing parameters. The speakers will discuss models developed by NASA and their partners for application of the research results for improved prevention and prediction of outbreaks. We will update the projects that were introduced last year and also present new projects that are using NASA data.

CHAIR

Sue M. Estes
NASA/USRA, Huntsville, AL, United States

John A. Haynes
NASA, Washington, DC, United States

8 a.m.

Introduction
John A. Haynes
NASA, Washington, DC, United States

8:10 a.m.

AN OVERVIEW OF NASA PUBLICATIONS APPLICATIONS USING REMOTE SENSING DATA AND HOW TO BECOME A RESEARCH COLLABORATOR WITH NASA

Sue M. Estes
NASA/USRA, Huntsville, AL, United States

8:25 a.m.

AN OVERVIEW OF NASA PUBLICATIONS APPLICATIONS USING REMOTE SENSING DATA AND HOW TO BECOME A RESEARCH COLLABORATOR WITH NASA

John Haynes
NASA, Washington, DC, United States

8:45 a.m.

REMOTE SENSING BASED MODELING AND SURVEILLANCE OF MALARIA AND AVIAN INFLUENZA RISK PREDICTION IN SOUTH EAST ASIA AND EARLY WARNING OF PANDEMIC INFLUENZA

Richard K. Kiang
NASA, Greenbelt, MD, United States

9 a.m.

UTILIZATION OF NASA EARTH SCIENCE RESEARCH RESULTS TO ENHANCE THE CDC ARBONET/PLAGUE SURVEILLANCE SYSTEM AND PREDICTING ZONOTIC HEMORRHAGIC FEVER EVENTS IN SUB-SAHARAN AFRICA USING NASA EARTH SCIENCE DATA FOR DOD – GLOBAL EMERGING INFECTIONS SURVEILLANCE

Jorge Pinzon E. Pinzon
NASA, Greenbelt, MD, United States

Wednesday, December 10

9:15 a.m.**MALARIA EARLY WARNING SYSTEM (MEWS/FAMINE EARLY WARNING SYSTEM (FEWS))**

Molly E. Brown
NASA, Greenbelt, MD, United States

9:30 a.m.**INTEGRATION OF REMOTE SENSING INTO ENCEPHALITIS VIRUS INTERVENTION DECISION SUPPORT SYSTEMS**

William Reisen
University of California – Davis, Davis, CA, United States

Symposium 112***Wolbachia* Endosymbionts of Filarial Parasites: From Basic Symbiosis Research to New Treatment Approaches for Filariasis**

Napoleon A123

Wednesday, December 10, 8 a.m. – 9:45 a.m.

Wolbachia are obligatory symbionts required for development and reproduction in most filarial species. Depletion of these alpha-proteobacteria by antibiotics leads to sterility of the female worms and to the death of adult worms. Because many pathogenic filarial species depend on *Wolbachia*, they represent a breakthrough target for the development of new anti-filarial drugs and a novel insight into the pathogenesis of filariasis by stimulating an inflammatory immune response in the human host. Recent genome sequencing of the filarial parasite *Brugia malayi* and its *Wolbachia* revealed new hypotheses on the nature of their mutualistic relationship which will form the basis for post-genomic experiments. The *Wolbachia*/filarial parasite system offers the possibility to study the nature of symbiosis taking place within a unique three-dimensional vertebrate host/parasite/endosymbiont relationship.

CHAIR

Peter Fischer
Washington University School of Medicine, St. Louis, United States

Mark Taylor
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8 a.m.**BIOLOGY OF *WOLBACHIA* AND THEIR ROLE IN PATHOGENESIS OF HUMAN FILARIASIS**

Mark Taylor
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

8:25 a.m.**GENOME ORGANIZATION OF *WOLBACHIA* AND FURTHER DIRECTIONS OF POST-GENOMIC RESEARCH**

Barton Slatko
New England Biolabs, Ipswich, MA, United States

8:50 a.m.**LATERAL GENE TRANSFER FROM *WOLBACHIA* TO THE NUCLEAR GENOME OF FILARIAL PARASITES**

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

9:15 a.m.**TREATMENT OF HUMAN FILARIASIS USING ANTIBIOTICS TARGETING *WOLBACHIA* ENDOSYMBIONTS**

Achim Hoerauf
Institute for Medical Parasitology, Bonn, Germany

Symposium 113**Update on Cholera**

Maurepas

Wednesday, December 10, 8 a.m. – 9:45 a.m.

Cholera remains an important cause of morbidity and mortality in the developing world. The symposium will update clinical and epidemiological data on cholera, and review molecular epidemiologic studies from India and Bangladesh, mathematical modeling of cholera transmission and recent vaccine studies.

CHAIR

J. Glenn Morris
University of Florida, Gainesville, FL, United States

O. Colin Stine
University of Maryland, Baltimore, Baltimore, MD, United States

8 a.m.**CLINICAL AND EPIDEMIOLOGICAL UPDATE**

J. Glenn Morris
University of Florida, Gainesville, FL, United States

8:25 a.m.**MOLECULAR EPIDEMIOLOGY OF CHOLERA IN INDIA AND BANGLADESH**

O. Colin Stine
University of Maryland, Baltimore, Baltimore, MD, United States

8:50 a.m.**MATHEMATICAL MODELS OF CHOLERA**

Elsa Schaefer
Marymount College, Arlington, VA, United States

9:15 a.m.**CHOLERA VACCINES: THE KOLKATA VACCINE TRIAL**

John Clemens
International Vaccine Institute, Seoul, Republic of Korea

Scientific Session 114**Pneumonia, Respiratory Infections and Tuberculosis**

Bayside A

Wednesday, December 10, 8 a.m. – 9:45 a.m.**CHAIR**

W. Abdullah Brooks
International Center for Diarrhoeal Disease Research, B: Centre for Health & Population Research, Dhaka, Bangladesh

Davidson H. Hamer
Center for International Health and Development, Boston, MA, United States



8 a.m.

797

PNEUMOCOCCAL DISEASE IN MALI AND THE INTRODUCTION OF 7-VALENT VACCINE INTO THE EPI

Samba O. Sow¹, Milagritos D. Tapia², Mariam Sylla³, Souleymane Diallo³, Mahamadou Keita¹, Nouhoum Kone⁴, Karen Kotloff², Myron M. Levine²
¹Center for Vaccine Development-Mali, Bamako, Mali, ²Center for Vaccine Development Baltimore, CVD-Baltimore, MD, United States, ³Hopital Gabriel Toure, Bamako, Mali, ⁴EPI, Ministere de la Sante, Bamako, Mali

8:15 a.m.

798

NEW DIAGNOSTIC APPROACHES FOR PEDIATRIC TB AMONG PERUVIAN CHILDREN

Richard Oberhelman¹, Giselle Soto-Castellares², Luz Caviedes³, Maria Castillo⁴, Mayuko Saito⁵, Alberto Laguna², Robert Gilman⁶
¹Tulane School of Public Health, New Orleans, LA, United States, ²U.S. Naval Medical Reseach Center Detachment, Lima, Peru, ³Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴Instituto de Salud del Nino, Lima, Peru, ⁵Asociacion Benefica PRISMA, Lima, Peru, ⁶Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

8:30 a.m.

799

A REPORT OF THE FIRST TWO AND A HALF YEARS OF A COMPREHENSIVE INFLUENZA SENTINEL SURVEILLANCE SYSTEM IN KENYA AND ITS IMPLICATIONS FOR VACCINE STRAIN SELECTION IN THE EAST AFRICA REGION

David Schnabel¹, Wallace Bulimo², Jason Garner³, Rachel Achilla², Virginia Headley³, Sam Martin¹
¹US Army Medical Research Unit – Kenya, Nairobi, Kenya, ²Kenya Medical Research Institute, Nairobi, Kenya, ³US Air Force School of Aerospace Medicine, Brooks City-Base, TX, United States

8:45 a.m.

800

THE EPIDEMIOLOGY OF HUMAN PARAINFLUENZA VIRUS-ASSOCIATED PNEUMONIA IN THAILAND

Oliver Morgan¹, Malinee Chittaganpitch², Birgit Clague³, Wiwan Sanasuttipun⁴, Teresa C. Peret⁵, Dean D. Erdman⁵, Henry C. Baggett⁶, Sonja J. Olsen¹, Alicia Fry⁷
¹Division of Emerging Infections and Surveillance Services, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Thailand National Institutes of Health, Ministry of Public Health, Nonthaburi, Thailand, ³International Emerging Infections Program, Thailand MOPH-U.S. CDC Collaboration, Nonthaburi, Thailand, ⁴Sa Kaeo Provincial Health Office, Sa Kaeo, Thailand, ⁵Division of Viral Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁶International Emerging Infections Program, Thailand MOPH-U.S. CDC Collaboration, Nonthaburi, Thailand, ⁷Division of Viral Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States

9 a.m.

801

RESPIRATORY DISEASE SURVEILLANCE IN 6 ROYAL THAI ARMY HOSPITALS ALONG THAI BORDERS

Jariyanart Gaywee¹, Narongrid Sirisopana¹, Chirapa Eamsila¹, Pochaman Watcharapichat¹, Thippawan Chuenchitra¹, Judpon Vudtakanok², Vim Jangyodsuk³, Smin Boonlikit³, Wisuth Srichantrapunt⁴, Surat Paonin⁵, Rattaporn Pattanarangsang⁶, Thongdang Arthayapan⁷, Ladaporn Bodhidatta¹, Richard G. Jarman¹, Julie A. Pavlin¹, Carl J. Mason¹
¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²Fort Surasi Hospital, Kanchanaburi, Thailand, ³Fort Surasinghanath Hospital, Sa-Kaew, Thailand, ⁴Fort Sunpasitthiprasong Hospital, Ubon Ratchathani, Thailand, ⁵Fort Mengraimaharat Hospital, Chiangrai, Thailand, ⁶Fort Khetudomsak Hospital, Chumphon, Thailand, ⁷Fort Ingkayuthaborihan Hospital, Pattani, Thailand

9:15 a.m.

802

EPIDEMIOLOGY AND GENETIC CHARACTERIZATION OF INFLUENZA VIRUSES ISOLATED FROM PATIENTS ENROLLED IN A HOSPITAL-BASED FEBRILE SURVEILLANCE STUDY IN CAMBODIA

Patrick J. Blair¹, Thomas F. Wierzba², Sok Touch³, Saphonn Vonthanak⁴, Rebecca J. Garten⁵, Xiyan X. Xu⁵, Alexander I. Klimov⁵, Shannon D. Putnam⁶
¹Naval Health Research Center, San Diego, CA, United States, ²Naval Medical Research Unit 2-Phnom Penh, Phnom Penh, Cambodia, ³Communicable Diseases Control Department, Phnom Penh, Cambodia, ⁴National Institute of Public Health, Phnom Penh, Cambodia, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁶Naval Medical Research Unit #2, Jakarta, Indonesia

9:30 a.m.

803

EVALUATION OF SYMPTOM RECALL DURING A TWO-WEEK INTERVAL IN HOME-BASED MORBIDITY SURVEILLANCE, KISUMU AND NAIROBI, KENYA

Daniel Feikin¹, Allen Audi¹, James Ndirango², Christina Polyak¹, Godfrey Bigogo¹, Beatrice Olack², John Williamson³, Heather Burke², Robert Breiman²
¹Centers for Disease Control and Prevention, Kisumu, Kenya, ²Centers for Disease Control and Prevention, Nairobi, Kenya, ³Centers for Disease Control and Prevention, Atlanta, GA, United States

Wednesday, December 10

Symposium 115

Antigen Presenting Cells in Helminth Infection- A Role for Immune Regulation? From Mice to Human – Comparison Between *in vitro* and *in vivo* Systems

Bayside BC

Wednesday, December 10, 8 a.m. – 9:45 a.m.

A common feature of chronic helminth infection is the inability of T cells to proliferate or produce IFN- γ in response to parasite Ag. Considerable published data suggest that dysregulation of professional antigen presenting cells (APCs) — e.g., dendritic cells (DC) and macrophages (Mac) — can explain the lack of an antigen-specific T cell response. Although the detailed mechanisms remain elusive, common data from human studies and mouse studies are beginning to emerge. Nonetheless, differences in the experimental systems need to be resolved. Our knowledge of T cell hypo-responsiveness is probably best studied in filarial disease and thus that will be the topic of this symposium. Microfilaria of *Brugia malayi* affect human DC in at least two ways: 1) by interfering with their viability and 2) by altering their function. In addition, the infective larval stage (L3, has been shown to alter the function of human Langerhans' cells (LC) quite profoundly. Interestingly, these same filarial parasites, in mouse models of filariasis, generate suppressive nematode-elicited macrophages (NeMac), capable of blocking T cell proliferative responses. Moreover, data from another mouse system indicate that a phosphorylcholine-containing glycoprotein, ES-62, secreted by *Acanthocheilonema viteae*, induces the maturation of DC2 with the capacity to induce Th2 responses that may cross regulate Th1 responses. This symposium is organized to review the existing data on the role of professional APCs in helminth infection. The goal is to address the role of APCs in mouse and human models and to give an overview of the differences and similarities that exist between these models, as well to compare and contrast *in vitro* models and clinical or *in vivo* studies that have been done so far. The final goal is to address the research needs for a better understanding of APC function in filariasis and other helminth infections.

CHAIR

Roshanak T. Semnani
National Institutes of Health, Bethesda, MD, United States

8 a.m.

MODULATION OF DENDRITIC CELL FUNCTION BY NEMATODES

Mary M. Stevenson
McGill University Health Centre, Montreal, Canada

8:25 a.m.

THE ROLE OF MACROPHAGES IN MURINE MODELS OF FILARIASIS

Judith E. Allen
The University of Edinburgh, Edinburgh, United Kingdom

8:50 a.m.

GENERATING PROTECTIVE IMMUNITY TO INTESTINAL PARASITES

Jackie Perrigoue
University of Pennsylvania, Philadelphia, PA, United States

9:15 a.m.

THE ROLE OF HUMAN DENDRITIC CELLS IN FILARIAL INFECTION

Roshanak T. Semnani
National Institutes of Health, Bethesda, MD, United States

Symposium 116

Developing Great Leaders in Tropical Medicine: The Fogarty International Center at 40

Grand Ballroom A

Wednesday, December 10, 8 a.m. – 9:45 a.m.

The Fogarty International Center (FIC) of National Institutes of Health is one of the few institutions devoted entirely to developing foreign and U.S. leaders in science and public health focused on working in poor countries. The research-training model links institutions in the north and south to mutual benefit. Examples of successful training programs and research highlights will focus on: cholera in Bangladesh; malaria in Uganda; STI/HIV in Africa and Latin America; and, emerging infections in Cameroon and Congo. The principles of successful programs leading to sustainability and career enhancement will be discussed. The history of FIC and the model used for successful international collaboration will be featured.

CHAIR

Joel G. Breman
Fogarty International Center, Bethesda, MD, United States

Roger Glass
Fogarty International Center, Bethesda, MD, United States

8 a.m.

Introduction

Joel G. Breman
Fogarty International Center, Bethesda, MD, United States

Roger Glass
Fogarty International Center, Bethesda, MD, United States

8:25 a.m.

CHOLERA IN BANGLADESH

Stephen Calderwood
Harvard Medical School, Boston, United States

8:45 a.m.

MALARIA THERAPY AND DRUG RESISTANCE IN UGANDA

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

9:05 a.m.

PREVENTION OF STI/HIV IN AFRICA AND LATIN AMERICA

King Holmes
University of Washington, Seattle, WA, United States

9:25 a.m.

PYGMIES, BUSHMEAT AND HIV IN CAMEROON AND CONGO

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



Symposium 117

Presumptive Therapy and Medical Screening of Migrating Refugees and Immigrants

Grand Ballroom B

Wednesday, December 10, 8 a.m. – 9:45 a.m.

This symposium will address the development of the Centers for Disease Control and Prevention pre-departure and post-arrival presumptive therapy and medical screening for infectious diseases for refugees relocating to the United States. In addition, the domestic medical screening guidelines for immigrants and refugees relocating to Canada are under development and will be introduced. The symposium will include an in-depth discussion around infectious diseases of immigrants and refugees with high prevalence and large public health impact. Some of these interventions are based on mass presumptive therapy, which is a new concept for U.S.- and Canadian-based clinicians (common in developing country settings).

CHAIR

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

Christina A. Greenaway
SMBD Jewish General Hospital, Montreal, QC, Canada

8 a.m.

INTRODUCTION TO THE CDC'S OVERSEAS AND DOMESTIC PRESUMPTIVE THERAPY AND MEDICAL SCREENING GUIDELINES

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

8:25 a.m.

EVIDENCE REVIEWS TO RECOMMENDATIONS FOR CANADIAN CLINICAL PREVENTIVE GUIDELINES FOR NEWLY ARRIVED IMMIGRANTS AND REFUGEES

Kevin Pottie
University of Ottawa, Ottawa, ON, Canada

8:50 a.m.

MALARIA MANAGEMENT IN U.S.-BOUND REFUGEES

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

9:15 a.m.

ENHANCED MEDICAL SCREENING FOR TUBERCULOSIS IN U.S.-BOUND REFUGEES

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

Scientific Session 118

Flavivirus V

Grand Ballroom C

Wednesday, December 10, 8 a.m. – 9:45 a.m.

CHAIR

Carol Blair
Colorado State University, Fort Collins, CO, United States

Amadou A. Sall
Institut Pasteur Dakar, Dakar, Senegal

8 a.m.

830

THE USE OF HUMAN-MURINE CHIMERIC ANTIBODIES FOR TREATMENT OF YELLOW FEVER IN THE AG129 MOUSE MODEL

Brett A. Thibodeaux¹, John T. Roehrig², Carol D. Blair¹
¹Colorado State University, Fort Collins, CO, United States,
²Centers for Disease Control, Fort Collins, CO, United States

8:15 a.m.

831

YFV-INDUCED CYTOKINE EXPRESSION IN HUMAN HEPATOCYTES.

Sara E. Woodson, Michael R. Holbrook
University of Texas Medical Branch, Galveston, TX, United States

8:30 a.m.

832

PHYLOGENETIC ANALYSIS OF WEST AFRICAN ZIKA VIRUS USING SEQUENCES OF PARTS OF E, NS5 AND NS5/3'NC

FayeE Oumar¹, Faye Ousmane¹, Dupressoir Anne², Ndiaye Mady³, Diallo Mawlouth¹, Sall Amadou Alpha¹
¹Institut Pasteur Dakar, Senegal, Dakar, Senegal, ²Institut Gustave Roussy, Paris, France, ³University Cheikh Anta Diop Dakar, Dakar, Senegal

8:45 a.m.

833

INSECT-ONLY FLAVIVIRUSES DETECTED IN CULEX SPECIES MOSQUITOES FROM NORTHERN COLORADO

Bethany G. Bolling, Lars Eisen, Chester G. Moore, Barry J. Beaty, Carol D. Blair
Colorado State University, Fort Collins, CO, United States

9 a.m.

834

EVALUATION OF IGM CAPTURE ELISA ASSAYS FOR THE DETECTION ANTI-JEV IGM ANTIBODIES IN CEREBROSPINAL FLUID SAMPLES

Ravi Vasanthapuram¹, Jamie S. Robinson², Brandy Russell², Anita Desai¹, Nalini Ramamurthy³, David A. Featherstone⁴, Barbara W. Johnson²
¹Department of Neurovirology, National Institute of Mental Health and Neuro Sciences, Bangalore, India, ²Centers for Disease Control and Prevention, Division of Vector-Borne Infectious Diseases, Fort Collins, CO, United States, ³World Health Organization – Southeast Asia Regional Office, Immunization and Vaccine Development, New Delhi, India, ⁴World Health Organization, Geneva, Switzerland

Wednesday, December 10

9:15 a.m.

835

FIRST CLINICAL TRIAL OF A VERO CELL DERIVED, INACTIVATED JAPANESE ENCEPHALITIS (JE) VACCINE IC51 IN PEDIATRIC POPULATION

Elisabeth Schuller
Intercell AG, Vienna, Austria

9:30 a.m.

836

SIX MONTHS SAFETY OF A VERO-CELL CULTURE DERIVED JAPANESE ENCEPHALITIS VACCINE, IC51, ACROSS PHASE 3 TRIALS AND IN A LONG-TERM FOLLOW-UP COHORT

Katrin Dubischar-Kastner
Intercell AG, Vienna, Austria

Scientific Session 119

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Cellular Parasitology I

*Supported with funding from The Burroughs Wellcome Fund
Grand Ballroom D*

Wednesday, December 10, 8 a.m. – 9:45 a.m.

CHAIR

Brian Cooke
Monash University, Victoria, Australia

Rana Nagarkatti
Virginia Bioinformatics Institute, Blacksburg, VA, United States

8 a.m.

1238

RAPID MEMBRANE DISRUPTION BY A PERFORIN-LIKE PROTEIN FACILITATES PARASITE EXIT FROM THE HOST CELL

Björn F.C. Kafsack¹, Janethe D.O. Pena³, Isabelle Coppens², Sandeep Ravindran⁴, John C. Boothroyd⁴, Vern B. Carruthers¹
¹Department of Microbiology and Immunology, University of Michigan Medical School, Ann Arbor, MI, United States, ²Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, United States, ³Department of Immunology, Universidade Federal de Uberlandia, Uberlandia, Brazil, ⁴Department of Microbiology and Immunology, Stanford University School of Medicine, Stanford, CA, United States

8:15 a.m.

811

HDP- A NOVEL HEME DETOXIFICATION PROTEIN IN THE MALARIA PARASITE

Rana Nagarkatti¹, Dewal Jani¹, Wandy Beatty², Ross Angel³, Carla Slebodnick³, John Andersen⁴, Sanjai Kumar⁵, Dharmendar Rathore¹

¹Virginia Bioinformatics Institute, Blacksburg, VA, United States, ²Washington University School of Medicine, St. Louis, MO, United States, ³Virginia Polytechnic Institute and State University, Blacksburg, VA, United States, ⁴Laboratory of Malaria and Vector Research, National Institutes of Health, Rockville, MD, United States, ⁵Food and Drug Administration, Bethesda, MD, United States

8:30 a.m.

812

DEFINING THE INTERACTION BETWEEN *P. FALCIPARUM* SKELETON BINDING PROTEIN 1 AND THE MEMBRANE SKELETON OF MALARIA-INFECTED RED BLOOD CELLS

Lev M. Kats¹, Donna W. Buckingham¹, Kate Fernandez¹, Xinhong Pei², Xiuli An², Narla Mohandas², **Brian M. Cooke**¹

¹Monash University, Melbourne, Australia, ²New York Blood Center, New York, NY, United States

8:45 a.m.

1239

A CALCIUM DEPENDENT PROTEIN KINASE MODULATES MICRONEME SECRETION IN *TOXOPLASMA GONDII*

Sebastian Lourido, L. David Sibley
Washington University School of Medicine, St. Louis, MO, United States

9 a.m.

813

BROAD-SPECTRUM ANTI-INFECTIVE DRUGS THAT TARGET METABOLIC PATHWAYS AND *E. HISTOLYTICA* TROPHOZOITE GROWTH

Avelina Espinosa¹, David Rowley², George Perdrizet¹, Aaron Socha³, Erika Rye¹

¹Roger Williams University, Bristol, RI, United States, ²University of Rhode Island, Kingston, RI, United States, ³University of Rhode Island, Kingston, RI, United States

9:15 a.m.

814

MOLECULAR CHARACTERIZATION OF FATTY ACID BINDING PROTEINS FROM THE HOOKWORM *ANCYLOSTOMA CEYLANICUM*

Keke C. Fairfax, Jon J. Vermeire, Richard D. Bungiro, Lisa M. Harrison, Sohail Husain, Michael Cappello
Yale University, New Haven, CT, United States



9:30 a.m.

815

HOOKWORM SECRETED TISSUE INHIBITORS OF METALLOPROTEINASE: CLONING, CHARACTERIZATION AND FUNCTIONS

Bin Zhan, Richi Gupta, Susan P. Wang, Stacia Bier, Desheng Jiang, Gaddam Goud, Helton Santiago, Peter J. Hotez
The George Washington University Medical Center, Washington, DC, United States

Symposium 120 Antimalarials and Glucose 6-Phosphate Dehydrogenase Deficiency

Grand Ballroom E

Wednesday, December 10, 8 a.m. – 9:45 a.m.

Glucose 6-phosphate dehydrogenase (G6PD) deficiency is the most common enzymopathy affecting approximately 400 million people worldwide. The G6PD deficient genotypes are relatively protected against malaria, but are sensitive to hemolytic episodes triggered by oxidative stress due to viral/bacterial infections or treatments with oxidant drugs. The use of certain class of antimalarials has been restricted in G6PD deficient population due to hemolytic toxicities. Limitations with experimental models of G6PD deficiency have hampered the development of drugs, which are safe to use in G6PD deficient populations. Recent advancements in generation of transgenic animals have provided the tools for producing the experimental animals with required phenotypic traits. Also, better understanding on mechanism of hemolytic toxicities produced by the oxidant drugs has helped in standardization of alternate cellular models of G6PD deficiency and *in vitro* evaluation of hemolytic potential of new candidate drugs. This symposium shall discuss the current status of the knowledge on malaria and G6PD deficiency. Development of experimental models of G6PD deficiency and their applications for discovery of non-hemolytic antimalarials shall also be discussed.

CHAIR

Larry A. Walker
University of Mississippi, University, MS, United States

Babu L. Tekwani
University of Mississippi, University, MS, United States

Colin Ohrt
Walter Reed Army Institute of Research, Germantown, MD, United States

8 a.m.

INTRODUCTION

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

8:15 a.m.

MALARIA AND G-6-PD: CLINICAL ASPECTS

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

8:35 a.m.

LABORATORY ANIMAL MODELS FOR G-6-PD DEFICIENCY

Rosemary Rochford
SUNY Upstate Medical University, Syracuse, NY, United States

8:55 a.m.

PHARMACOLOGICAL MODELS FOR G-6-PD DEFICIENCY

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

9:15 a.m.

ROS INTERMEDIATES AND HEMOLYSIS IN G-6-PD DEFICIENT ERYTHROCYTES

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

Exhibit Hall Open

Napoleon Ballroom

Wednesday, December 10, 9:30 a.m. – 10:30 a.m.

Coffee Break

Napoleon Ballroom

Wednesday, December 10, 9:45 a.m. – 10:15 a.m.

Poster Session C Set-Up

Armstrong Ballroom

Wednesday, December 10, 9:45 a.m. – 10:15 a.m.

Poster Session C Viewing

Armstrong Ballroom

Wednesday, December 10, 10:15 a.m. – Noon

Symposium 121

Post-Treatment Reactions in Loiasis: Clinical and Programmatic Implications

Gallery

Wednesday, December 10, 10:15 a.m. – Noon

Loa loa is a filarial infection affecting approximately 13 million people in Central and West Africa, with a geographic distribution that overlaps considerably with that of *Wuchereria bancrofti* and *Onchocerca volvulus*. Although the majority of patients with Loa loa infection are asymptomatic despite high levels of microfilariae in the blood, microfilaricidal treatment with DEC or ivermectin can provoke severe reactions, including fatal encephalopathy. This has created significant problems for the Lymphatic Filariasis Eradication Program ongoing in Africa as drug distribution in Loa-endemic areas has been suspended. This symposium is designed to: 1) provide an overview of Loa loa infection and its impact on the mass treatment programs for filariasis, 2) describe recent advances in our understanding of post-treatment reactions and 3) highlight research advances necessary for the continued success of mass treatment programs for filariasis in Africa.

CHAIR

Amy D. Klion
National Institutes of Health, Bethesda, MD, United States

10:15 a.m.

LOA LOA: A CLINICAL OVERVIEW

Thomas B. Nutman
National Institutes of Health, Bethesda, MD, United States

10:40 a.m.

MASS TREATMENT PROGRAMS FOR FILARIASIS IN AFRICA: IMPACT OF LOA LOA INFECTION

Yao Sodahlon
Mectizan Donation Program, Atlanta, GA, United States

11:05 a.m.

POST-TREATMENT REACTIONS IN LOIASIS: PAST AND PRESENT

Joseph Kamgno
National Onchocerciasis Task Force, Yaounde, Cameroon

Wednesday, December 10

11:30 a.m.**POST-TREATMENT REACTIONS IN LOIASIS: LOOKING TOWARDS THE FUTURE**Amy D. Klion
*National Institutes of Health, Bethesda, MD, United States***Symposium 122****Monetary and Non-Monetary Burden of Human Larval Cestode Infections***Rhythms I***Wednesday, December 10, 10:15 a.m. – Noon**

As part of the World Health Organization's Global Burden of Disease Study, the disability adjusted life year (DALY) has been utilized to assess non-financial burden of disease for more than one hundred communicable and non-communicable conditions. DALYs simultaneously evaluate morbidity and mortality, associated with a condition, thereby permitting comparison of dissimilar afflictions. The DALY is now under review, especially for infectious diseases, where the data is typically poor. In addition, this approach strictly focuses on the human impact of an infection and, in the case of zoonoses, completely ignores the impact of infections on the agricultural sector. This impact can have tremendous consequences on the well-being of small holders farming communities. Studying the extent of human larval cestode infections will most likely raise awareness of these potentially eradicable zoonoses among policy makers and stakeholders in both the public health and agricultural sectors of developing and developed countries where any of the human larval cestode infections are a burden. This symposium will provide examples of calculating the burden of larval cestodes, with both the DALYs approach and the monetary impact approach. The latter takes the animal impact into account. These estimates are key to supporting international efforts to raise awareness about neglected diseases and their impact.

CHAIRAna Flisser
Universidad Nacional Autonoma de Mexico, Mexico City, Mexico
Arve Lee Willingham
*WHO/FAO Collaborating Center for Parasitic Zoonoses Faculty of Life Sciences, University of Copenhagen, Frederiksberg, Denmark***10:15 a.m.****ESTIMATION OF THE NON-MONETARY BURDEN OF ECHINOCOCCOSIS, WITH SPECIAL REFERENCE TO CHINA**Christine M. Budke
*Texas A&M University, College Station, TX, United States***10:35 a.m.****ESTIMATION OF THE ECONOMIC BURDEN OF NEUROCYSTICERCOSIS IN PERU**Andres G. Lescano
*Universidad Peruana Cayetano Heredia, Lima, Peru***10:55 a.m.****ESTIMATION OF THE COST-BENEFIT OF A HEALTH-EDUCATION INTERVENTION TRIAL TO REDUCE PORCINE CYSTICERCOSIS IN MBULU DISTRICT, TANZANIA**Helena Ngowi
*Sokoine University of Agriculture, Morogoro, United Republic of Tanzania.***11:15 a.m.****ESTIMATION OF THE MONETARY IMPACT OF CYSTICERCOSIS IN THE EASTERN CAPE PROVINCE, SOUTH AFRICA**Hélène Carabin
*University of Oklahoma, Oklahoma City, OK, United States***11:35 a.m.****DISCUSSION****Scientific Session 123****Malaria – Epidemiology II***Rhythms III/III***Wednesday, December 10, 10:15 a.m. – Noon****CHAIR**Hasifa Bukirwa
Uganda Malaria Surveillance Project, Kampala, Uganda
Bryan Greenhouse
*University of California, San Francisco, San Francisco, CA, United States***10:15 a.m.****816****ASSESSING THE IMPACT OF INDOOR RESIDUAL SPRAYING ON MALARIA INDICATORS USING A SENTINEL SITE SURVEILLANCE SYSTEM IN WESTERN UGANDA**

Hasifa F. Bukirwa¹, Vincent Yau², Ruth Kigozi¹, Linda Quick³, Myers Lagemwa⁴, Gunawardena Dissanayake⁵, Sarah G. Staedke⁶, Moses R. Kamya⁷, Fred Wabwire-Mangen⁸, Grant Dorsey⁹
¹*Uganda Malaria Surveillance Project, Kampala, Uganda*, ²*University of California, Berkeley, CA, United States*, ³*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁴*Uganda Ministry of Health, Kampala, Uganda*, ⁵*U.S. Agency for International Development, Kampala, Uganda*, ⁶*London School of Hygiene and Tropical Medicine, London, United Kingdom*, ⁷*Makerere University, Kampala, Uganda*, ⁸*Makerere University School of Public Health, Kampala, Uganda*, ⁹*University of California, San Francisco, CA, United States*

10:30 a.m.**817****THE RELATIONSHIP BETWEEN MALARIA TRANSMISSION INTENSITY, CLINICAL DISEASE AND MORTALITY IN AN AREA OF DECLINING TRANSMISSION**

Wendy P. O'Meara¹, Tabitha Mwangi², Thomas Williams², F. Ellis McKenzie¹, Robert Snow³, Kevin Marsh²
¹*Fogarty International Center, National Institutes of Health, Bethesda, MD, United States*, ²*Kenya Medical Research Institute, CGMRC/Wellcome Trust Collaborative Program, Kilifi, Kenya*, ³*KEMRI/Wellcome Trust Collaborative Program, Nairobi, Kenya*

10:45 a.m.**818****INCREASING RISK OF TREATMENT FAILURE WITH ANTIMALARIAL COMBINATION THERAPY: PARASITE AND HOST FACTORS**

Bryan Greenhouse¹, Madeline Slater¹, Denise Njama-Meya², Bridget Nzarubara², Catherine Maiteki-Sebuguzi², Tamara D. Clark¹, Moses R. Kamya², Alan Hubbard³, Philip J. Rosenthal¹, Grant Dorsey¹
¹*University of California, San Francisco, San Francisco, CA, United States*, ²*Makerere University Medical School, Kampala, Uganda*, ³*University of California, Berkeley, Berkeley, CA, United States*



11 a.m.

819

POPULATION HEMOGLOBIN LEVELS: A NEW METRIC FOR DEFINING MALARIA ENDEMICITY

Nicolas Senn¹, Albert Sie¹, Seri Maraga¹, Stephen Rogerson², John Reeder³, Ivo Mueller¹
¹PNG IMR, Madang, Papua New Guinea, ²University of Melbourne, Melbourne, Australia, ³Burnet Institute, Melbourne, Australia

11:15 a.m.

820

EFFICACY AND COST-EFFECTIVENESS OF MALARIA PREVENTION IN PREGNANCY IN LOW AND UNSTABLE TRANSMISSION: RESULTS OF A RANDOMISED CONTROLLED TRIAL

Richard Ndyomugenyi¹, **Sian E. Clarke**², Coll Hutchison², Kristian Schultz Hansen³, Daniel Chandramohan², Pascal Magnussen⁴
¹Vector Control Division, Ministry of Health, Kampala, Uganda, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³University of Aarhus, Aarhus, Denmark, ⁴DBL-Institute for Health Research and Development, Copenhagen, Denmark

11:30 a.m.

821

EFFICACY OF INTERMITTENT PREVENTIVE TREATMENT WITH SULFADOXINE-PYRIMETHAMINE IN PRIMI- AND SECUNDIGRAVIDAE IN RURAL BURKINA FASO: IMPACT ON PARASITAEMIA, ANAEMIA AND BIRTH WEIGHT

Sabine Gies¹, Sheick O. Coulibaly², Florence T. Ouattara³, Umberto D'Alessandro¹
¹Prince Leopold Institute of Tropical Medicine, Antwerp, Belgium, ²UFR Sciences de la Santé, Université de Ouagadougou, Ouagadougou, Burkina Faso, ³District Sanitaire Boromo, Boromo, Burkina Faso

11:45 a.m.

822

GLUCOSE 6-PHOSPHATE DEHYDROGENASE (G6PD) DEFICIENCY GENOTYPE-PHENOTYPE CORRELATIONS IN MALARIA ASSOCIATION STUDIES

Sunil Parikh¹, Marla K. Johnson¹, Moses R. Kamya², Grant Dorsey¹, Philip J. Rosenthal¹
¹University of California-San Francisco, San Francisco, CA, United States, ²Makerere University, Kampala, Uganda

Symposium 124

Update on Epidemic and Endemic Vector-Borne Diseases in Brazil: Dengue Fever, Yellow Fever, Orally Transmitted Chagas Disease and Malaria

Waterbury

Wednesday, December 10, 10:15 a.m. – Noon

This symposium will provide an update of the marked epidemiological changes in four vector-borne diseases in Brazil, and discuss the implications for diagnosis, treatment and control. The diseases are: dengue fever, Chagas disease, yellow fever and malaria. The massive 2008 outbreak of dengue fever in Brazil is characterized by a shift to the pediatric age group and historically high levels of hemorrhagic complications and mortality. Oral transmission of Chagas disease has emerged as the leading mode of infection in the Amazon region, with distinct clinical manifestations; it indicates an emerging relationship between sylvatic transmission cycle, non-domiciliated vectors, and encroachment of human populations on new spaces in the ecosystem. The 2007 outbreak of yellow fever in humans is a signal event for intensive concurrent epizootic transmission. Far-reaching changes in the ecology and population of the Amazon basin have been paralleled by changes in the epidemiology of malaria in the region, with consequent implications for control and prevention.

CHAIR

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

Gerson O. Penna
Ministry of Health of Brazil, Brasilia, Brazil

10:15 a.m.

DENGUE FEVER IN BRAZIL: EPIDEMIOLOGY AND CLINICAL OUTCOMES, WITH EMPHASIS ON THE OUTBREAKS OF 2008

João B Siqueira
Federal University of Goiás, Goiânia, Brazil

10:40 a.m.

UPDATE ON YELLOW FEVER IN BRAZIL, WITH EMPHASIS ON THE 2007 OUTBREAK

Gerson O. Penna
Ministry of Health of Brazil, Brasilia, Brazil

11:05 a.m.

EPIDEMIOLOGY, DIAGNOSIS AND TREATMENT OF ORALLY TRANSMITTED CHAGAS DISEASE, AN IMPORTANT MODE OF TRANSMISSION IN BRAZIL

Eduardo H. Carmo
Ministry of Health of Brazil, Brasilia, Brazil

11:30 a.m.

THE CHANGING EPIDEMIOLOGY OF MALARIA IN THE BRAZILIAN AMAZON REGION, AND IMPLICATIONS FOR TREATMENT AND CONTROL

Ana Carolina F. Santelli
Ministry of Health of Brazil, Brasilia, Brazil

Wednesday, December 10

Symposium 125

Accelerating the Development and Deployment of Diagnostic Tools into Developing World: Promises and Challenges

Napoleon A123

Wednesday, December 10, 10:15 a.m. – Noon

Although high-quality diagnostic tests for infectious diseases are available, they are neither affordable nor accessible to patients in developing countries, largely due to the lack of laboratory infrastructure and expertise. The few tests that are available in developing countries are often sold and used with little evidence of their effectiveness, because diagnostics are not subject to strict regulatory approval standards as for drugs and vaccines. There is an urgent need for quality-assured diagnostics for infectious diseases of public health importance in the developing world. This symposium aims to describe promises and challenges along the pathway from diagnostic target discovery to test development and deployment to reduce disease burden in the developing world.

CHAIR

Rosanna W. Peeling
World Health Organization, Geneva, Switzerland

Steven G. Reed
Infectious Disease Research Institute, Seattle, WA, United States

10:15 a.m.

AFFORDABLE AND ACCESSIBLE DIAGNOSTICS FOR TROPICAL DISEASES: NEEDS AND RECENT ADVANCES

Rosanna W. Peeling
World Health Organization, Geneva, Switzerland

10:40 a.m.

THE CHALLENGE OF TARGET DISCOVERY AND DEVELOPING APPROPRIATE DIAGNOSTIC TOOLS FOR TROPICAL DISEASES

Steven G. Reed
Infectious Disease Research Institute, Seattle, WA, United States

11:05 a.m.

DEPLOYMENT OF DIAGNOSTIC TOOLS AT VARIOUS LEVELS OF THE HEALTH CARE SYSTEM: BARRIERS AND THE WAY FORWARD

Andrew R. Ramsay
World Health Organization, Geneva, Switzerland

11:30 a.m.

FROM BRIGHT IDEAS TO AN FDA CLEARED DEVICE: LESSONS LEARNED FROM A MALARIA RAPID DIAGNOSTIC TEST PROGRAM AND THE REALITIES OF PRODUCT DEVELOPMENT

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

Symposium 126

Diarrhea in Children Living in Poverty: Current Reflections on an Old Affliction

Maurepas

Wednesday, December 10, 10:15 a.m. – Noon

Diarrheal disease is still one of the most important public health problems in developing countries, despite advances in understanding and management that have occurred in recent years. Multiple episodes of acute diarrhea and persistent diarrhea seriously affect growth, nutritional status and cognition. This symposium will review the changing epidemiology of diarrheal diseases in children in developing countries, the pathogens associated with diarrhea, the effect on growth and intellectual function and new topics on management and prevention.

CHAIR

Theresa J. Ochoa
Universidad Peruana Cayetano Heredia, Lima, Peru

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

10:15 a.m.

EPIDEMIOLOGY AND BURDEN OF DIARRHEAL DISEASE

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

10:40 a.m.

DIARRHEAGENIC E. COLI: PREVALENCE, PATHOGENESIS AND ANTIBIOTIC RESISTANCE

Theresa J. Ochoa
Universidad Peruana Cayetano Heredia, Lima, Peru

11:05 a.m.

DIARRHEA AND INTESTINAL PARASITES

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

11:30 a.m.

DIARRHEA, NUTRITION AND COGNITION

Richard Guerrant
University of Virginia, Charlottesville, VA, United States

Scientific Session 127

HIV in the Tropics

Bayside A

Wednesday, December 10, 10:15 a.m. – Noon

CHAIR

Rocio Hurtado
Massachusetts General Hospital, Boston, MA, United States

Jean B. Nachega
Johns Hopkins University, Baltimore, MD, United States



10:15 a.m.

823

HIV-1 INFECTION INCREASES THE RISK OF SEVERE MALARIA IN SEMI-IMMUNE ADULTS IN ZAMBIA

Victor Chalwe¹, **Jean-Pierre Van geertruyden**², Felix Mutale³, Doreen Mukwamataba⁴, Joris Menten², John Kamalamba³, Modest Mulenga¹, Umberto D'Alessandro²
¹Tropical Disease Research Centre, Ndola, Zambia, ²Prince Leopold Instituut voor tropische geneeskunde, Antwerpen, Belgium, ³Thomson Hospital, Luanshya, Zambia, ⁴Tropical Disease Research Centre, Nola, Zambia

10:30 a.m.

824

IMMUNE RECONSTITUTION INFLAMMATORY SYNDROME IN THE FIRST SIX MONTHS OF ANTIRETROVIRAL THERAPY IN HIV-INFECTED UGANDAN CHILDREN

Fredrick K. Kateera¹, Jane Achan¹, Ted Theodore², Joan Kalyango³, Edwin Charlebois², Moses Kanya³, Diane Havlir²
¹MU-University of California at San Francisco Malaria Research Collaboration, Kampala, Uganda, ²University of California at San Francisco, San Francisco, CA, United States, ³Makerere University, Kampala, Uganda

10:45 a.m.

825

DIARRHEAGENIC E. COLI IN PERUVIAN CHILDREN WITH HIV

Anicia M. Medina¹, Fulton P. Rivera¹, Liliana M. Romero¹, Francesca Barletta¹, Lenka A. Kolevic², Maria E. Castillo², Eduardo Verne³, Yovanna E. Mayor⁴, Theresa J. Ochoa¹
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Instituto Especializado de Salud del Niño, Lima, Peru, ³Hospital Nacional Cayetano Heredia, Lima, Peru, ⁴Hospital Nacional Hipolito Unanue, Lima, Peru

11 a.m.

826

DETECTION AND GENOTYPING OF ENTEROCYTOZOOM BIENEUSI IN STOOL SPECIMENS FROM HIV-INFECTED RURAL KENYANS

Ozgur Koru¹, John T. Brooks², Yvonne Qvarnstrom³, Mark Eberhard³, Stephanie P. Johnston³, Marianna Wilson³, Laurence Slutsker³, Mary Hamel³, Ya Ping Shi³, Tom Chiller⁴, Alexandre J. da Silva³
¹Centers for Disease Control and Prevention, Division of Parasitic Diseases, NCZVED and Atlanta Research and Education Foundation, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, Division of HIV/AIDS Prevention, NCHHSTP, Atlanta, GA, United States, ³Centers for Disease Control and Prevention, Division of Parasitic Diseases, NCZVED, Atlanta, GA, United States, ⁴Division of Fungal Bacterial and Mycotic Diseases, NCZVED, Atlanta, GA, United States
(ACMCIP Abstract)

11:15 a.m.

827

CARING FOR THE MOTHER AND CHILD IN AN INTEGRATED HEALTH SYSTEM: THE UTILITY OF A POSTNATAL BRIDGING CARD

Eugene Richardson¹, Robert Pattinson², Anne-Marie Bergh², Elsie Etsane², Jenny Makin²
¹Yale University School of Medicine, New Haven, CT, United States, ²University of Pretoria, Pretoria, South Africa

11:30 a.m.

828

BIOLOGY IS DESTINY OR SOCIAL STATUS MEETS SERO-STATUS?: DETERMINANTS OF HIV INFECTION IN AFRICA

Ashley M. Fox
 Columbia University, New York, NY, United States

11:45 a.m.

829

IMPACT OF HIV-1 INFECTION ON THE HEMATOLOGICAL RECOVERY AFTER CLINICAL MALARIA

Jean-Pierre Van Geertruyden¹, Modest Mulenga², Victor Chalwe², Michael Nambozi³, Filip Moerman¹, Doreen Mukwamataba³, Umberto D'Alessandro¹
¹Prince Leopold Instituut voor tropische geneeskunde, Antwerpen, Belgium, ²Tropical Disease Research Centre, Ndola, Zambia, ³Tropical Disease Research Center, Ndola, Zambia

Symposium 128

Avian Influenza: Collaborative Clinical Research from Southeast Asia

Bayside BC

Wednesday, December 10, 10:15 a.m. – Noon

This symposium will provide an overview of recent clinical research on avian influenza from regional collaboration in SEA. Content will include an overview of avian influenza in Southeast Asia, overview and findings from an H5N1 clinical data base, recent pharmacokinetic studies on influenza therapeutics, and a presentation of viral kinetics and pathogenesis of human H5N1 disease.

CHAIR

Elizabeth S. Higgs
 National Institutes of Health, National Institute of Allergy and Infectious Diseases, DCR, Bethesda, MD, United States

Tawee Chotpitayasunondh
 Queen Sirikit National Institute of Child Health, Bangkok, Thailand

10:15 a.m.

OVERVIEW OF HUMAN H5N1 DISEASE IN SEA WITH EMPHASIS ON EPIDEMIOLOGY AND CLINICAL OUTCOMES IN H5N1

Endang Rahayu Sedyaningsih
 National Institutes of Health Research and Development, Jakarta, Indonesia

Wednesday, December 10

10:40 a.m.**FINDING FROM A COLLABORATIVE SEA CLINICAL DATABASE STUDY**Sardikin Giriputro
*Sulianti Saroso Hospital, Jakarta, Indonesia***11:05 a.m.****THERAPEUTIC CONSIDERATIONS FOR H5N1 DISEASE IN HUMANS: OPTIONS FOR VARIOUS CLADES OF H5N1, POTENTIAL IMPORTANCE OF LOADING DOSE, DRUG LEVELS AFTER NG ADMINISTRATION OF OSELTAMIVIR IN H5N1 DISEASE.**Yupaporn Wattanagoon
*Mahidol University, Bangkok, Thailand***11:30 a.m.****H5N1 VIRAL KINETICS, DEVELOPMENT OF RESISTANCE, AND PATHOGENESIS**Tran Tinh Hien
*Hospital for Tropical Diseases, HCMC, Vietnam.***Symposium 129****Launching Careers in Tropical Disease Research: Progress Reports from Burroughs Wellcome Fund/ASTMH Fellows***Supported with funding from The Burroughs Wellcome Fund**Grand Ballroom A***Wednesday, December 10, 10:15 a.m. – Noon**

This session will highlight the work of Burroughs Wellcome Fund/ASTMH fellows who are focusing their work on global health problems in situ — doing excellent research on tropical diseases where they occur. Both of these highly competitive fellowship programs focus on training excellent U.S.-based researchers who are launching careers that are expected to involve long-term research presence both abroad and at their home institutions in the U.S. There will also be a discussion of career issues faced by those who take on working in two countries (home and abroad).

CHAIRVictoria McGovern
*Burroughs Wellcome Fund, Research Triangle Park, NC, United States*Terrie Taylor
*Michigan State University, East Lansing, MI, United States***10:15 a.m.****A CAREER IN TROPICAL DISEASE RESEARCH**Rebeca M. Plank
*Brigham and Women's Hospital, Boston, MA, United States***10:55 a.m.****QUESTIONS AND ANSWERS***Fellowship Program Awardees and Advisors***Symposium 130****Clinical Research in Disease-Endemic Countries: The New Clinical Research Center in Mali***Grand Ballroom B***Wednesday, December 10, 10:15 a.m. – Noon**

Moving candidate drugs and vaccines from the laboratory to the field (from Phase 1 to Phase 2 and 3 testing) requires testing for efficacy in a disease-endemic area, which must be performed according to the guidelines of FDA, National Institutes of Health, Centers for Disease Control and Prevention, WHO and other federal and international agencies. Because the extensive clinical observations, laboratory testing and record-keeping required for those studies is not feasible at most clinical facilities in disease-endemic areas, the development of clinical research centers in sub-Saharan Africa is a necessary step in the control of diseases such as malaria, HIV and TB. This symposium will review the planning, construction and training that have been necessary to develop a new Clinical Research Center in Mali. It will also examine the training (capacity building) that was necessary to ensure that study design, record-keeping, laboratory results and quality control in this facility are indistinguishable from those in the U.S. and Europe. Finally, it will examine the ways in which such facilities will need to collaborate with developed country investigators to ensure that interventions which are efficacious in Phase 2 proceed to larger scale (Phase 3) testing and subsequently to implementation.

CHAIRDonald J. Krogstad
*Tulane University Health Sciences Center, New Orleans, LA, United States*Fawaz Mzayek
*Tulane University, New Orleans, LA, United States***10:15 a.m.****THE NEED FOR CLINICAL RESEARCH FACILITIES ON-SITE IN DISEASE-ENDEMIC COUNTRIES****10:35 a.m.**Daniel J. Carucci
*United Nations Foundation, Washington, DC, United States***10:55 a.m.****STUDY DESIGN, STATISTICAL SUPPORT, QUALITY CONTROL AND OTHER RESOURCES FOR RANDOMIZED CLINICAL TRIALS**Seydou Doumbia
*Malaria Research and Training Center, Bamako, Mali***11:15 a.m.****CLINICAL AND RESEARCH LABORATORY SUPPORT FOR CLINICAL RESEARCH ON MALARIA, HIV AND TB**Ousmane A. Koita
*University of Bamako, Bamako, Mali***11:35 a.m.****CLINICAL RESEARCH BY DEVELOPED COUNTRY INVESTIGATORS ON-SITE IN DISEASE-ENDEMIC COUNTRIES**Terrie Taylor
Michigan State University, East Lansing, MI, United States



Symposium 131

American Committee on Arthropod-Borne Viruses (ACAV): Yellow Fever

Grand Ballroom C

Tuesday, December 9, 10:15 a.m. – 12:45 p.m.

Yellow fever (YF) is among the oldest known arboviral diseases and a disease for which there is a very effective vaccine. Yet, the virus continues to be the cause of thousands of human cases in Africa and South America with fatality rates ranging from 20-50 percent. Could the public health importance of this disease be increasing, as suggested by recent outbreaks in unusual areas of South America and the unexplained occurrence of severe and fatal cases associated with YF vaccine? The symposium will provide excellent overall coverage of YF as an emerging sylvatic disease with some insight regarding the absence of urban transmission of YF virus for decades.

CHAIR

Douglas M. Watts
University of Texas El Paso, El Paso, TX, United States

10:15 a.m.

ACAV BUSINESS MEETING AND AWARDS PRESENTATION

Douglas M. Watts
University of Texas El Paso, El Paso, TX, United States

10:45 a.m.

OVERVIEW OF YELLOW FEVER, THEN AND NOW

Thomas P. Monath
Kleiner Perkins Caufield & Byers, Harvard, MA, United States

11 a.m.

EMERGING PATTERN OF YELLOW FEVER OUTBREAKS IN SOUTH AMERICA

Pedro F. Vasconcelos
Instituto Evandro Chagas, Belém, Brazil

11:25 a.m.

OUBREAK OF YELLOW FEVER IN PARAGUAY: URBAN OR SYLVATIC?

Antonio Arbo
Ministry of Health, Asuncion, Paraguay

11:50 p.m.

SAFETY OF YELLOW FEVER VACCINES: AN UPDATE

Dirk E. Teuwen
Catholic University Leuven, Leuven, Belgium

12:15 p.m.

THREAT OF YELLOW FEVER TO ASIA

Jack Woodall
Federal University of Rio De Janeiro, Petropolis, Brazil

Scientific Session 132

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Cellular Parasitology II

Supported with funding from The Burroughs Wellcome Fund

Grand Ballroom D

Wednesday, December 10, 10:15 a.m. – Noon

CHAIR

Megan J. Downie
University of Connecticut Health Center, Farmington, CT, United States

Prakash Srinivasan
National Institutes of Health, Rockville, MD, United States

10:15 a.m.

837

PLASMODIUM PYRUVATE DEHYDROGENASE IS ONLY ESSENTIAL FOR LIVER STAGE DEVELOPMENT

Alice S. Tarun¹, Stefan H. Kappe
Seattle Biomedical Research Institute, Seattle, WA, United States

10:30 a.m.

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DISTINCT ROLES OF PLASMODIUM RHOMBOID 1 IN PARASITE DEVELOPMENT AND MALARIA PATHOGENESIS

Prakash Srinivasan¹, Isabelle Coppens², Marcelo Jacobs-Lorena²
¹National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ²Johns Hopkins School of Public Health, Malaria Research Institute, Baltimore, MD, United States

10:45 a.m.

839

ISOLATION OF INVASIVE LONG LIVED PLASMODIUM FALCIPARUM MEROZOITES BY CELL SIEVING

David L. Narum¹, J. David Haynes², J. Kathleen Moch², Sheetij Dutta²
¹National Institutes of Health, Rockville, MD, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States

11 a.m.

840

A COMPLEX FORMATION OF RHOPTRY NECK PROTEIN 2 WITH A MICRONEME PROTEIN, AMA1, IN PLASMODIUM FALCIPARUM

Jun Cao¹, Osamu Kaneko², Amporn Thongkukiatkul³, Mayumi Tachibana⁴, Hitoshi Otsuki⁴, Takafumi Tsuboi⁵, Motomi Torii⁴
¹Jiangsu Institute of Parasitic Diseases, Wuxi, China, ²Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan, ³Faculty of Science, Burapha University, Chonburi, Thailand, ⁴Department of Molecular Parasitology, Ehime University Graduate School of Medicine, Toon, Japan, ⁵Cell-Free Science and Technology Research Center, Ehime University, Matsuyama, Japan

Wednesday, December 10

11:15 a.m.

841

A PURINE TRANSPORTER IN THE ENDOPLASMIC RETICULUM OF *PLASMODIUM FALCIPARUM*Megan J. Downie¹, Kamal El Bissati¹, April M. Bobenchik¹, Kiaran Kirk², Choukri Ben Mamoun¹¹University of Connecticut Health Center, Farmington, CT, United States, ²The Australian National University, Canberra, Australia

11:30 a.m.

ACMCIP ANNUAL BUSINESS MEETING

Sarah Volkman

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

Symposium 133**Towards Non-Hemolytic 8-Aminoquinolines: New Developments**

Grand Ballroom E

Wednesday, December 10, 10:15 a.m. – Noon

8-Aminoquinolines are the only class of antimalarials active against all the life cycle stages of the malaria parasite with utility for treatment and prophylaxis against falciparum malaria, as well as treatment and radical cure of relapsing vivax malaria. Recently, their utility against other protozoal infections has also been suggested. However, severe hemolytic toxicities seen in G6PD deficient individuals have limited their therapeutic applications. This symposium will discuss the importance and necessity of development of non hemolytic 8-aminoquinoline antimalarials; updates on 8-aminoquinolines under preclinical evaluations and clinical development; current status of the knowledge on understanding the mechanism of hemolytic toxicity and development of *in vitro* assays for prediction of hemolytic potential of candidate molecules; and their applications in development of non-hemolytic 8-aminoquinolines.

CHAIR

Babu L. Tekwani

University of Mississippi, University, MS, United States

Larry Walker

University of Mississippi, University, MS, United States

10:15 a.m.

INTRODUCTION

Wilbur K. Milhous

University of South Florida, Tampa, FL, United States

10:30 a.m.

NON-HEMOLYTIC 8-AMINOQUINOLINES: CONSORTIUM APPROACH

Larry Walker

University of Mississippi, University, MS, United States

11 a.m.

UPDATES ON TAFENOQUINE DEVELOPMENT

Colin Ohrt

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

11:30 a.m.

ENANTIOSELECTIVITY IN METABOLISM, EFFICACY AND SAFETY OF 8-AMINOQUINOLINES

Babu L. Tekwani

University of Mississippi, University, MS, United States

Exhibit Hall Open/Light Lunch

Napoleon Ballroom

Wednesday, December 10, Noon – 2:30 p.m.

Poster Session 134 (#842-1111 and Late Breakers)**Poster Session C/Light Lunch**

Armstrong Ballroom

Wednesday, December 10, Noon – 1:30 p.m.

Arthropods/Entomology – Other

842

STUDY ON PREVALENCE, DISTRIBUTION AND BEHAVIORAL ASPECTS OF THE POTENTIAL VECTOR/S OF CUTANEOUS LEISHMANIASIS IN SELECTED AREAS OF SRI LANKASanath C. Senanayake¹, Nadira D. Karunaweera¹, Wimaladharma Abeyewickreme²¹University of Colombo, Colombo, Sri Lanka, ²University of Kelaniya, Faculty of Medicine, Ragama, Sri Lanka

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GENETIC STRUCTURE OF A HIGHLY *TRYPANOSOMA CRUZI*-INFECTED POPULATION OF *TRITOMA SANGUISUGA* IN NEW ORLEANS, LOUISIANA, USANicolas de la Rua¹, Kristina Cesa², Leon Pernicario¹, Dawn Wesson², Patricia L. Dorn¹¹Loyola University New Orleans, New Orleans, LA, United States, ²Tulane University Health Sciences Center, New Orleans, LA, United States

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ANALYSIS OF THE SPATIO-TEMPORAL DYNAMICS OF HOUSE INFESTATION BY NON-DOMICILIATED *TRITOMA DIMIDIATA* REVEALS AN HETEROGENOUS DISTRIBUTION OF CHAGAS DISEASE TRANSMISSION RISK AND POTENTIAL VECTOR MANIPULATION BY *TRYPANOSOMA CRUZI*Eric Dumonteil¹, Melba Herrera-Aguilar¹, Maria Euan-Gracia¹, Leysi Chavez-Nuñez¹, Sébastien Gourbière², Maria Jesus Ramirez-Sierra¹¹Universidad Autonoma de Yucatan, Merida, Yucatan, Mexico, ²University of Perpignan, Perpignan, France

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EFFECTS OF VIRAL INFECTION ON BLOOD FEEDING BEHAVIOR AND FECUNDITY IN *CULICOIDES SONORENSIS* (DIPTERA: CERATOPOGONIDAE)Kristine Bennett¹, Jessica E. Hopper¹, Melissa A. Stuart¹, Mark West², Barbara S. Drolet¹¹USDA/ARS/ABADRL, Laramie, WY, United States, ²USDA/ARS/NPA, Fort Collins, CO, United States

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SEARCHING FOR MOLECULAR DETERMINANTS OF SPECIES SPECIFICITY IN SAND FLIES COLONIZED BY *LEISHMANIA* PARASITES

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IDENTIFICATION OF BLOODMEALS IN SANDFLIES BY ELISA, IN PERU

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MULTIPLE-DOSE POPULATION PHARMACOKINETICS OF PYRONARIDINE IN HEALTHY VOLUNTEERS

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MONITORING OF INTERNATIONAL OUTBREAKS WITH AN OUTBREAK SURVEILLANCE DATABASE

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THE FACTORS AFFECTING MALARIA PREVENTION AND TREATMENT DECISIONS FOR CHILDREN IN THE DEMOCRATIC REPUBLIC OF CONGO

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PHARMACOKINETICS, CLINICAL AND SAFETY OUTCOMES OF PYRONARIDINE/ARTESUNATE TREATMENT OF ACUTE *PLASMODIUM FALCIPARUM* MALARIA IN UGANDA

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A DOUBLE BLIND, RANDOMIZED, CONTROLLED, DOSE ESCALATION PHASE IB FIELD TRIAL IN 12 TO 24 MONTH OLD CHILDREN IN BURKINA FASO TO EVALUATE THE SAFETY AND IMMUNOGENICITY OF THE *P. FALCIPARUM* MEROZOITE SURFACE PROTEIN-3 LONG SYNTHETIC PEPTIDE (MSP 3-LSP) ADJUVANTED IN ALUMINIUM HYDROXIDE VERSUS ENGERIX B

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IN VITRO HEMOLYTIC EFFECTS OF 8-AMINOQUINOLINES IN NORMAL AND GLUCOSE 6-PHOSPHATE DEHYDROGENASE DEFICIENT ERYTHROCYTES

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Wednesday, December 10

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PILOT TRIAL OF THE HECT-CL DEVICE AS THERMOTHERAPY FOR CUTANEOUS LEISHMANIASIS IN PERU

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ASSESSING THE CARDIAC EFFECTS OF ARTESUNATE (AS) AND MEFLOQUINE (MQ) IN HEALTHY VOLUNTEERS IN A SAFETY AND PK, SINGLE DOSE, RANDOMISED, TWO PHASE CROSS OVER STUDY OF A NEW FIXED DOSE AS/MQ COMBINATION AND LOOSE AS + MQ

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MALARIA MORTALITY AND MORBIDITY IN THE FIRST FIVE YEARS OF LIFE IN A BIRTH COHORT OF CHILDREN IN NORTHERN GHANA

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Tiono B. Alfred¹, Ouedraogo Alphonse¹, Diarra Amidou¹, Sanon Souleymane¹, Yaro Jean Baptist¹, Ouedraogo Espérance¹, Ouedraogo Amathe¹, Soulama Issiaka¹, Bougouma Edith¹, Konaté T. Amadou¹, Nébié Issa¹, Sirima Sodiomon Bienvenu²

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ASSESSMENT OF RISK FACTORS FOR DRUG RESISTANT TUBERCULOSIS IN LOUISIANA, 1993-2005**Adiba Hassan***Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States*

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ANALYSIS OF ANTIBODY RESPONSE AGAINST DENGUE VIRAL RECOMBINANT PROTEINS IN SERUM SAMPLES OF PATIENTS WITH IN DF AND DHF**Balam May¹**, Garcia Cordero¹, Escobar Gutierrez², Cedillo Rivera³, Gutierrez Castañeda⁴, Cedillo Barron¹¹*Centro de Investigacion y Estudios Avanzado del Instituto Politecnico Nacional, Mexico City, Mexico*, ²*Instituto Nacional de Diagnóstico y Referencia Epidemiológicas, Departamento de Enfermedades Inmunológicas., Mexico City, Mexico*, ³*Centro Medico Nacional "Ignacio Garcia Téllez" del Instituto Mexicano del Seguro Social, Unidad de Investigación, Mérida, Yucatan, Mexico*, ⁴*Facultad de Estudios Superiores Iztacala, Universidad Nacional Autonoma de Mexico, Mexico City, Mexico*

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THE ROLE OF HUMAN FIBROBLAST IN THE INNATE IMMUNITY AGAINST DENGUE VIRUS**Bustos Arriaga**, Garcia Machorro, Garcia Cordero, Flores Romo, Santos Argumedo, Cedillo Barron*Centro de Investigacion y Estudios Avanzado del Instituto Politecnico Nacional, Mexico City, Mexico***(ACMCIP Abstract)**

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THE SPATIAL DIMENSION OF DENGUE TRANSMISSION IN IQUITOS, PERU**Steven T. Stoddard¹**, Amy C. Morrison¹, Tad Kochel², Sharon Minnick¹, Claudio Rocha², Moises Sihuinchu³, Thomas W. Scott¹¹*University Of California, Davis, CA, United States*, ²*Naval Medical Research Center Detachment, Lima, Peru*, ³*Loreto Regional Health Department Reference Laboratory, Iquitos, Peru*



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USING GPS TECHNOLOGY TO STUDY DISEASE TRANSMISSION: WHAT DO POTENTIAL STUDY PARTICIPANTS THINK ABOUT THIS?

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DENGUE VIRUS TYPE-2 (VD2), INDUCE FILOPODIAL STRUCTURES DURING VIRAL ENTRY IN CELL LINE HMEC-1

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EVALUATION OF HOUSEHOLD TRANSMISSION OF DENGUE USING A CLUSTER EPIDEMIOLOGY STUDY DESIGN IN WEST JAVA, INDONESIA

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LONGITUDINAL PROSPECTIVE STUDY OF DENGUE IN A COHORT OF INDONESIAN ADULTS REVEALS A SHIFT IN SEROTYPE PREDOMINANCE AND INCREASED DISEASE SEVERITY

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DENGUE KNOWLEDGE AND PRACTICE, A PHYSICIAN SURVEY IN AN ENDEMIC AREA OF THE U.S.

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FREQUENCY OF DENGUE FEVER AMONG FEBRILE PATIENTS PRESENTING TO AN URBAN HOSPITAL IN MEDELLIN, COLOMBIA: PILOT STUDY RESULTS

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USE OF HAND HELD COMPUTERS FOR DENGUE CASE REPORTING AND FOLLOW UP, MEDELLIN, COLOMBIA: PILOT STUDY RESULTS

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Flaviviridae – Other

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LIMITED EVIDENCE OF HCV TRANSMISSION IN STABLE HETEROSEXUAL COUPLES FROM BAHIA, BRAZIL

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PRO-INFLAMMATORY CYTOKINES IL-1 β , IL-8 AND TNF- α ARE ASSOCIATED WITH PROTECTIVE EVENTS WHEREAS IL-2 AND IFN- γ WERE MORE LINKED WITH THE INCREMENT OF THE BIOMARKER ALT IN HCV SEROPOSITIVE PRE-BLOOD DONORS

Maria Alice S. Zarife¹, Eliana A. Reis¹, Glenda C. Meira¹, Theomira M. Carmo¹, Gisele B. Menezes¹, Emilia C. Malafaia¹, Helder R. Silva¹, Nelma Santana², Olindo A. Martins-Filho¹, **Mitermayer G. Reis**¹

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ENHANCED FREQUENCY OF CD56^{BRIGHT} NK-CELLS TOGETHER WITH CD3⁺CD16⁺CD56⁻ NK-CELLS AND ACTIVATED CD4⁺T-CELLS OR B-CELLS PARALLEL WITH CD4⁺CDC25^{HIGH} T-CELL REGULATORY MAY PLAY AN IMPORTANT ROLE CONTROLLING VIREMIA IN HCV SEROPOSITIVE PRE-BLOOD DONORS

Maria Alice S. Zarife¹, Eliana A. Reis¹, Theomira M. Carmo¹, Gisele B. Menezes¹, Emilia C. Malafaia¹, Helder R. Silva¹, Nelma Santana², Olindo A. Martins-Filho¹, **Mitermayer G. Reis**¹

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DO WE NEED TO USE LABILE SERUM FACTOR FOR DETECTION OF NEUTRALIZING ANTIBODIES IN ARBOVIRAL DIAGNOSTICS?

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EVALUATION OF NUCLEIC ACID AMPLIFICATION ASSAYS FOR DETECTION OF JAPANESE ENCEPHALITIS VIRUS RNA IN CEREBRAL SPINAL FLUID FROM ACUTE ENCEPHALITIS PATIENTS

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MOLECULAR DETECTION OF FLAVIVIRUS IN ENDEMIC AREAS IN PERU

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THE NATURAL HISTORY OF YELLOW FEVER IN EAST AFRICA REVISITED

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KINETICS OF THE NEUTRALIZING ANTIBODY RESPONSE TO THE VERO-CELL CULTURE DERIVED JAPANESE ENCEPHALITIS VACCINE, IC51

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PREVALENCE OF CANDIDIASIS AMONG WOMEN USING CONTRACEPTIVES IN BENIN CITY NIGERIA

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ANALYSIS OF GENETIC DIVERSITY WITHIN A STABLE ENZOOTIC FOCUS OF POWASSAN VIRUS IN NORTHERN WISCONSIN

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ONE STEP RT-PCR FOR DETECTION OF ZIKA VIRUS

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ONE STEP RT-PCR FOR DETECTION OF ZIKA VIRUS

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THE BLOOD-BRAIN BARRIER IN THE CEREBRUM IS THE INITIAL SITE FOR THE JAPANESE ENCEPHALITIS VIRUS ENTERING THE CENTRAL NERVOUS SYSTEM

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YELLOW FEVER VACCINE VIRUS AND IGM ANTIBODY DETECTION IN URINE AND CEREBROSPINAL FLUID IN PATIENTS WITH YELLOW FEVER VACCINE-ASSOCIATED VISCEROTROPIC DISEASE

Maria Garcia, Enrique Mamani, Jose Bolarte, Paul Pachas, Dana Figueroa, Nancy Merino, Victoria Gutierrez, Maria Miraval, Manuel Espinoza, Eduardo Matos, Cesar Cabezas
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Kinetoplastida – Molecular Biology and Immunology

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TH1/TH2 DIFFERENTIATION IN CHRONIC AND RECURRENT AMERICAN CUTANEOUS LEISHMANIASIS AND ASYMPTOMATIC INFECTION WITH *LEISHMANIA VIANNIA PANAMENSIS*

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(ACMCIP Abstract)

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IDENTIFICATION AND CHARACTERIZATION OF SECRETED PROTEINS OF *L. CHAGASI*

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(ACMCIP Abstract)

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IDENTIFICATION, CHARACTERIZATION, AND EVALUATION OF THE *TRYPANOSOMA BRUCEI* CA²⁺ CHANNEL (TBCC1) AS A POTENTIAL DRUG AND VACCINE TARGET

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(ACMCIP Abstract)

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LUTZOMYIA LONGIPALPIS RECOMBINANT SALIVARY YELLOW-RELATED PROTEIN (LJM11) CONFERS PROTECTION AGAINST *LEISHMANIA* INFECTED SAND FLIES

Regis B. Gomes, Fabiano Oliveira, Clarissa Teixeira, Dia-Eldin Elnaiem, Shaden Kamhawi, Jesus G. Valenzuela
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EFFECT OF THIADIAZOLE AND ARIL-SYDNONE DERIVATIVES ON A CONSTITUTIVE NITRIC OXIDE SYNTHASE OF *LEISHMANIA AMAZONENSIS*

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THERAPEUTIC AND IMMUNOLOGICAL EFFECTS OF PYRAZOLE CARBOHYDRAZIDES DERIVATIVES ON THE MOUSE MODEL OF *LEISHMANIA AMAZONENSIS* INFECTION

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(ACMCIP Abstract)

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CHARACTERIZATION OF THE EARLY INFLAMMATORY RESPONSE TO BITES OF *LEISHMANIA MAJOR* INFECTED PHLEBOTOMUS DUBOSCQI SAND FLIES IN NAÏVE AND PRE-EXPOSED MICE

Clarissa R. Teixeira, Luis F. Oliveira, Regis B. Gomes, Dia Elnaiem, Shaden Kamhawi, Jesus G. Valenzuela
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EVALUATION OF THE CHRONIC PHASE IN DOGS NATURALLY INFECTED BY *TRYPANOSOMA CRUZI*

Vladimir Cruz-Chan, Manuel Bolio-Gonzalez, Rafael Colin-Flores, Maria Jesus Ramirez-Sierra, Israel Quijano-Hernandez, **Eric Dumonteil**

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(ACMCIP Abstract)

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***TRYPANOSOMA CRUZI* STRAINS INDUCED DIFFERENTIAL DETACHMENT OF THE PLACENTAL TROPHOBLAST THROUGH OXIDATIVE STRESS AND COULD PARTICIPATE IN THE CONGENITAL CHAGAS INFECTION**

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(ACMCIP Abstract)

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***TRYPANOSOMA CRUZI* UP-REGULATES HUMAN DEFENSIN A-1 IN EPITHELIAL CELLS TO CAUSE TRYPANOSOME MEMBRANE PORE FORMATION AND REGULATE CELLULAR INFECTION**

Marisa N. Madison, Maria F. Lima, Yulyia Y. Kleshchenko, Pius N. Nde, Fernando Villalta

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(ACMCIP Abstract)

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GENETIC POLYMORPHISM IN THE VISCERALIZING GENE SEQUENCE OF *LEISHMANIA TROPICA* ISOLATED FROM THE SOLDIERS RETURNING FROM IRAQ

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(ACMCIP Abstract)

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STUDY OF TRYPANOSOMATID VIRULENCE FACTORS USING BIOINFORMATIC AND EXPERIMENTAL APPROACHES

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(ACMCIP Abstract)**Malaria- Biology and Pathogenesis**

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IDENTIFICATION OF *PLASMODIUM* GENES INVOLVED IN THE PROTECTIVE PRE-ERYTHROCYTIC IMMUNE RESPONSE

Calvin Williams, Abdu Azad

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REAL-TIME *IN VIVO* IMAGING OF LIVER STAGES OF *PLASMODIUM YOELII*: GFP/LUCIFERASE REPORTER PARASITES

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EFFECT OF CHLOROQUINE, METHYLENE BLUE AND ARTEMETHER ON THE HEPATIC OXIDATIVE STRESS AND ANTIOXIDANT DEFENCE SYSTEM OF *P. YOELII NIGERIENSIS*-INFECTED MICE

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ERYTHROCYTE INVASION AND VARIATION IN MEROZOITE LIGAND GENE EXPRESSION IN *PLASMODIUM FALCIPARUM*

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HIGH-THROUGHPUT, QUANTITATIVE DISSECTION OF INTRA-ERYTHROCYTIC GROWTH OF THE HUMAN MALARIA PARASITE, *PLASMODIUM FALCIPARUM*, USING FLOWCYTOMETRY

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GAMETOCYTOGENESIS IN *PLASMODIUM FALCIPARUM*

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DIVERSITY OF *PLASMODIUM FALCIPARUM* PLASTOME IN GAMBIAN ISOLATES

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INFLUENCE OF THE PREGNANCY-ASSOCIATED HORMONE HUMAN CHORIONIC GONADOTROPHIN ON GROWTH OF *PLASMODIUM FALCIPARUM* IN VITRO

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MALARIA IN PREGNANCY IN INDONESIA: CHARACTERIZATION OF VAR2CSA TRANSCRIPTS, ANTIBODY RESPONSE TO *PLASMODIUM FALCIPARUM* ERYTHROCYTE MEMBRANE PROTEIN (PFEMP1), AND PLACENTAL HISTOLOGY

Rintis Noviyanti¹, Leily Trianty¹, Michael Duffy², Jeanne Rini Poespoprodjo³, Harsha Dadlani¹, Nugradzia Nursamsy¹, Juan Monintja¹, Andreas Kusuma¹, Hidayat Trimarsanto¹, Daniel Lampah³, Enny Kenangalem³, Emiliana Tjitra⁴, Ric Price⁵, Graham Brown², Nicholas Anstey⁵, Stephen Rogerson²
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INFLAMMATORY MEDIATORS AS BIOMARKERS FOR MALARIAL ANEMIA SEVERITY IN PEDIATRIC POPULATIONS RESIDING IN HOLOENDEMIC *P. FALCIPARUM* TRANSMISSION AREAS

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DECREASED PEDIATRIC SEVERE MALARIAL ANEMIA IS ASSOCIATED WITH REDUCED INTRA-MONOCYTTIC HEMOZOIN DEPOSITION

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SPECIFIC INHIBITION OF THE PHOSPHOETHANOLAMINE METHYLTRANSFERASE OF THE HUMAN MALARIA PARASITE *PLASMODIUM FALCIPARUM* BY AMODIAQUINE

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PRODUCTION OF RETICULOCYTES FROM HEMATOPOIETIC STEM CELLS FOR DEVELOPMENT OF A CONTINUOUS *IN VITRO* CULTURE SYSTEM FOR *PLASMODIUM VIVAX*

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ANALYSES OF THE *PLASMODIUM FALCIPARUM* VAR GENE FAMILY IN PARASITE ISOLATES FROM ZAMBIA

Brenda Salumbides, Ralph LeBlanc, Godfree Mlambo, Nirbhay Kumar, Phil Thuma, **Susan M. Kraemer**
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TYROSINE NITRATION OF PROTEINS BY A PUTATIVE NITRATE REDUCTASE IN SEXUAL AND ASEQUAL *P. FALCIPARUM* PARASITES

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GROWTH-INHIBITORY EFFECT OF A FUCOIDAN FROM BROWN SEAWEED UNDARIA PINNATIFIDA ON *PLASMODIUM* PARASITES

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HEMATOLOGICAL EFFECTS IN PATIENTS WITH *PLASMODIUM VIVAX*, TIERRALTA – CÓRDOBA, COLOMBIA

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(ACMCIP Abstract)**Malaria – Chemotherapy**

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A RANDOMIZED CLINICAL TRIAL OF THE PROTECTIVE EFFICACY OF TRIMETHOPRIM-SULFAMETHOXAZOLE PROPHYLAXIS AGAINST MALARIA IN HIV-EXPOSED CHILDREN

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THE COST-EFFECTIVENESS OF RECTAL ARTESUNATE FOR TREATING SEVERE CHILDHOOD MALARIA AT THE COMMUNITY LEVEL

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IN VITRO ACTIVITY OF A DICHLOROMETHANE FRACTION OF LANSIUM DOMESTICUM LEAVES AGAINST *PLASMODIUM FALCIPARUM* CLONE 3D7

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ADHERENCE TO ARTEMETHER LUMEFANTRINE AS FIRST-LINE TREATMENT FOR UNCOMPLICATED MALARIA IN TANZANIA

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EVALUATION OF THE ANTIMALARIAL AND ANTIOXIDANT ACTIVITIES OF METHANOLIC EXTRACT OF *NIGELLA SATIVA* IN MICE INFECTED WITH *PLASMODIUM YOELLI NIGERIENSIS*

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PHARMACOKINETIC AND CLINICAL DETERMINANTS OF RESPONSE TO CHLOROQUINE TREATMENT IN NIGERIAN CHILDREN WITH ACUTE UNCOMPLICATED *FALCIPARUM* MALARIA

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PHARMACOKINETICS OF SULFADOXINE-PYRIMETHAMINE ADMINISTERED ALONE OR IN COMBINATION WITH AMODIAQUINE OR ARTESUNATE IN CHILDREN UNDER FIVE IN MALI

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IMPACT OF PROGRAMMATIC USE OF A NEW FIXED-DOSE COMBINATION OF ARTESUNATE-MEFLOQUINE FOR THE TREATMENT OF *FALCIPARUM* MALARIA IN THE JURUÁ VALLEY, ACRE – BRAZIL

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EFFICACY AND SAFETY OF ARTESUNATE + AMODIAQUINE (AS+AQ) IN COMPARATIVE TRIALS IN SOUTH-SAHARAN AFRICA: A SYSTEMATIC REVIEW AND AN INDIVIDUAL PATIENT META-ANALYSIS

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CLINDAMYCIN PLUS QUININE FOR TREATING UNCOMPLICATED FALCIPARUM MALARIA: A META-ANALYSIS

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Malaria – Diagnosis

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APPLYING A REAL TIME PCR ASSAY TO THE ROUTINE LABORATORY DIAGNOSIS OF FALCIPARUM MALARIA

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DETECTION OF PLASMODIUM KNOWLESI BY REAL-TIME PCR

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VARIABLE SENSITIVITY OF MALARIA RAPID DIAGNOSTIC TESTS IN HOUSEHOLD SURVEYS – TANZANIA, 2006

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VALIDATION OF MICROSCOPE EQUIPPED WITH A VERSATILE ILLUMINATOR (THE EARL-LIGHT) IN DETECTING MALARIA PARASITES

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THE VALIDATION OF THE DMSC MALARIA PF/PV. RAPID DIAGNOSTIC DEVICE FOR THE DETECTION OF FALCIPARUM AND NON FALCIPARUM MALARIA IN THAILAND 2006

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MAPPING EPITOPES RECOGNISED BY MONOCLONAL ANTIBODIES AGAINST PFHRP2 AND IMPLICATIONS TOWARDS OPTIMISATION OF MALARIA RAPID DIAGNOSTIC TESTS

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FIELD EVALUATION OF A RAPID MALARIA DIAGNOSTIC TEST (PARASCREEN™) FOR MALARIA DIAGNOSIS IN THE PERUVIAN AMAZON

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ISOLATION AND CHARACTERIZATION OF THE MSP1 GENE FROM PLASMODIUM MALARIAE AND OVALE

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(ACMCIP Abstract)

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SEROPREVALENCE OF PLASMODIUM FALCIPARUM, VIVAX, MALARIAE AND OVALE ANTIBODIES AMONG BLOOD DONORS FROM CAMEROON

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UTILITY OF MSP1-19 RECOMBINANT ANTIGENS FOR DETECTION OF ANTIBODIES TO *PLASMODIUM FALCIPARUM*, *OVALE*, *MALARIAE* AND *VIVAX*

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OPTIMAL-IT® AS AN ALTERNATIVE TO MICROSCOPY FOR MALARIA DIAGNOSIS IN REMOTE AREAS UNABLE TO ACCESS GOOD LABORATORY SERVICES IN BURKINA FASO

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PLASMODIUM FALCIPARUM HISTIDINE-RICH PROTEIN 2 ELISA FOR USE IN MALARIA INTERVENTION TRIALS

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EVALUATION OF 3 RAPID DIAGNOSTIC TESTS (CARESTART™ MALARIA 3 LINE PLDH (PAN, PF), OPTIMAL-IT® PLDH (PAN, PF) AND CARESTART™ 2 LINE PLDH (PAN) FOR THE DIAGNOSIS OF MALARIA IN MYANMAR

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FEASIBILITY OF THE RAPID DIAGNOSTIC TESTS (RDTS) FIELD USE FOR MALARIA CASE MANAGEMENT IN SENEGAL

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MALARIA SLIDE-READING FOR QUANTITATION OF PARASITEMIA IN MALARIA INTERVENTION TRIALS: A BETTER TRANSITION POINT FROM THICK TO THIN FILMS

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ANTIMALARIAL ACTIVITY OF PHENYLTHIAZOLYL-HYDROXAMATE-BASED HISTONE DEACETYLASE INHIBITORS

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IN VITRO ANTIMALARIAL ACTIVITY 4(1H) PYRIDONE DERIVATIVE GSK932121

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RISK FACTORS OF POOR TREATMENT OUTCOME IN PATIENTS TREATED WITH ARTEMETHER/LUMEFANTRINE (COARTEM®) AS FIRST-LINE TREATMENT FOR UNCOMPLICATED MALARIA IN SOUTH-EASTERN TANZANIA

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STATUS OF THE ARTEMISININ RESISTANCE-ASSOCIATED PFATPASE6 S769N MUTATION IN *PLASMODIUM FALCIPARUM* INFECTIONS OF LUSAKA URBAN DISTRICT, ZAMBIA

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THE PREVALENCE OF THE PFCRT-76 POINT MUTATION ON *PLASMODIUM FALCIPARUM* MALARIA INFECTIONS OF LUSAKA URBAN DISTRICT, ZAMBIA

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THE TANZANIAN NATIONAL VOUCHER SCHEME (TNVS): EVIDENCE ON CORE BEDNET AND MALARIA INDICATORS FOR PREGNANT WOMEN AND INFANTS AFTER THREE YEARS OF IMPLEMENTATION

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MATERNAL MALARIA AND DOPPLER INTERROGATION OF FETOPLACENTAL CIRCULATION: A LONGITUDINAL STUDY

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Wednesday, December 10

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MALARIA MORTALITY AMONG UNITED STATES RESIDENTS, 1990-2005**Frank Sorvillo**¹, Shira Shafir²¹University of California at Los Angeles, Los Angeles County Department of Public Health, Los Angeles, CA, United States,²University of California at Los Angeles, Los Angeles, CA, United States

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PREVALENCE AND LONGEVITY OF SUB-CLINICAL PLASMODIUM FALCIPARUM INFECTIONS AMONG SCHOOL CHILDREN FROM A HIGHLAND AREA OF KENYA**Frederick N. Baliraine**¹, Mariangela Bonizzoni¹, Yaw Afrane², Daibin Zhong¹, Dolphin Amenyah¹, Andrew Githeko², Guiyun Yan¹¹University of California, Irvine, Irvine, CA, United States,²Kenya Medical Research Institute, Kisumu, Kenya**(ACMCIP Abstract)**

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MALARIA INCIDENCE IN INFANTS IN BANCOUMANA, MALI**Mahamadou S. Sissoko**¹, Mahamadoun H. Assadou¹, Mamady Kone¹, A. Diallo¹, Aldiouma Guindo¹, Issaka Sagara¹, Merapen A. Guindo¹, Renion Saye¹, Ruth D. Ellis², Alassane Dicko¹, Dapa Diallo¹, Ogobara Doumbo¹, Louis H. Miller², Mark A. Pierce²¹Faculty of Medicine, Pharmacy and Odonto-Stomatology, University of Bamako, Malaria Research and Training Center, Bamako, Mali, ²National Institutes of Health, National Institute of Allergy and Infectious Disease, Malaria Vaccine Development Branch, Rockville, MD, United States

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BURDEN OF DISEASE DUE TO MALARIA IN PREGNANCY AMONG WOMEN ATTENDING ANTENATAL CLINICS AND HOSPITALIZED FOR MALARIA IN THE STATE OF JHARKHAND, INDIA**Davidson H. Hamer**¹, Blair J. Wylie², Mrigendra P. Singh³, Kojo Yeboah-Antwi¹, Jordan Tuchman¹, Priti Gupta³, Mohamad I. Brooks¹, Man M. Shukla³, Lora Sabin¹, Aditya P. Dash⁴, Neeru Singh³¹Center for International Health and Development, Boston, MA, United States, ²Department of OB/GYN, Massachusetts General Hospital, Boston, MA, United States, ³National Institute for Malaria Research Field Station, Jabalpur, Madhya Pradesh, India, ⁴National Institute for Malaria Research, Delhi, India

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CHANGES IN VECTOR DENSITY PREDICT MALARIA INCIDENCE IN HIGHLAND KENYA: IMPLICATIONS FOR MALARIA EARLY WARNING SYSTEMS**Melissa A. Riedesel**¹, Kim A. Lindblade², Kelsey Johnson¹, Baolin Wu³, John M. Vulule⁴, Chandy C. John¹¹University of Minnesota, Medical School, Minneapolis, MN, United States, ²Centers for Disease Control and Prevention Regional Office for Central America and Panama, Guatemala City, Guatemala, ³University of Minnesota, School of Public Health, Minneapolis, MN, United States, ⁴Kenya Medical Research Institute, Kisumu, Kenya

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BURDEN OF DISEASE DUE TO MALARIA IN PREGNANCY AMONG PREGNANT WOMEN ATTENDING DELIVERY UNITS IN THE STATE OF JHARKHAND, INDIA**Davidson H. Hamer**¹, Mrigendra P. Singh², Blair J. Wylie³, Kojo Yeboah-Antwi¹, Jordan Tuchman¹, Man M. Shukla², Mohamad I. Brooks¹, Lora Sabin¹, Aditya P. Dash⁴, Neeru Singh²¹Center for International Health and Development, Boston, MA, United States, ²National Institute for Malaria Research Field Station, Jabalpur, Madhya Pradesh, India, ³Department of OB/GYN, Massachusetts General Hospital, Boston, MA, United States, ⁴National Institute for Malaria Research, Delhi, India

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CAMBODIA MALARIA SURVEY, 2007**Samphornarann Top**

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Malaria – Immunology

1011

ANTIBODY RESPONSES TO THE MEROZITE SURFACE PROTEIN (MSP) COMPLEX OF *PLASMODIUM FALCIPARUM* IN MALARIA PATIENTS FROM CENTRAL INDIA

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(ACMCIP Abstract)

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IS ACQUISITION OF ANTI-MEROZOITE SURFACE PROTEIN 3 ANTIBODIES RELATED TO PROTECTION AGAINST FALCIPARUM MALARIA?

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(ACMCIP Abstract)

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MACROPHAGE MIGRATION INHIBITORY FACTOR IN PLACENTAL INTERVILLOUS BLOOD PLASMA AND ITS ASSOCIATION WITH BIRTH OUTCOMES IN *PLASMODIUM FALCIPARUM* INFECTED WOMEN IN CENTRAL INDIA

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(ACMCIP Abstract)

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EVALUATION OF IGG AND IGM ANTIBODY RESPONSES THAT RECOGNIZE T AND B CELL EPITOPES IN SEVERAL VACCINE CANDIDATE ANTIGENS OF *PLASMODIUM FALCIPARUM* VACCINE STRAIN 3D7 IN SERA FROM PATIENTS WITH NATURALLY ACQUIRED MALARIA LIVING IN THE PERUVIAN AMAZON BASIN

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CELL MEDIATED IMMUNE RESPONSES TO *PLASMODIUM FALCIPARUM* ANTIGENS IN PREGNANT CAMEROONIAN WOMEN

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(ACMCIP Abstract)

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ALTERED MALARIA ENDEMICITY IN RURAL COMMUNITIES IN THE GAMBIA AND IN GUINEA BISSAU

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(ACMCIP Abstract)

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IGG RESPONSES TO THE N- AND C- TERMINAL DOMAINS OF THE CS PROTEIN AND PROTECTION AGAINST CLINICAL MALARIA IN MALARIA ENDEMIC SETTING IN BURKINA FASO (WEST AFRICA)

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(ACMCIP Abstract)

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IMMUNIZATION WITH A SMALL PEPTIDE (CEL-1000) PROTECTS AGAINST RODENT MALARIA BY MODULATING INNATE IMMUNE RESPONSES IN LIVER

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(ACMCIP Abstract)

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MULTIPLEX ANALYSIS OF CYTOKINE RESPONSES TO PRE-ERYTHROCYTIC AND ERYTHROCYTIC MALARIA ANTIGENS IN A HIGHLAND KENYA POPULATION

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(ACMCIP Abstract)

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ANTIBODY MEDIATED BLOOD STAGE IMMUNITY AS MEASURED BY FUNCTIONAL GROWTH INHIBITION ASSAYS IS GREATER IN AREAS OF UNSTABLE AS COMPARED TO STABLE TRANSMISSION

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(ACMCIP Abstract)

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RESTRICTION OF SEROLOGICAL CROSS-REACTIVITY BETWEEN VARIANTS OF *PLASMODIUM VIVAX* DUFFY BINDING PROTEIN FOLLOWING SINGLE MALARIA INFECTION

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(ACMCIP Abstract)**Malaria – Molecular Biology**

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POLYMORPHIC VARIABILITY IN THE IL-4 -589T/C PROMOTER IS ASSOCIATED WITH INCREASED SUSCEPTIBILITY TO HIGH-DENSITY MALARIA PARASITEMIA

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(ACMCIP Abstract)

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IDENTIFICATION OF *PLASMODIUM YOELII* RBC MEMBRANE PROTEINS INVOLVED IN ADHERENCE TO A MURINE ENDOTHELIAL CELL LINE

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(ACMCIP Abstract)

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MECHANISMS OF DRUG INDUCED GENE EXPRESSION IN *PLASMODIUM FALCIPARUM*

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MOLECULAR CHARACTERIZATION OF POLYMORPHISMS IN THE *PLASMODIUM VIVAX* MDR1-LIKE GENE (PVMDR1) FROM THE AMAZON BASIN AND THE NORTH COAST OF PERU

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(ACMCIP Abstract)

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THE FREQUENCY OF DRUG RESISTANCE MUTATIONS IN *DHFR*, *DHPS*, AND *PFCRT*, ON THE PACIFIC COAST OF PERU

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(ACMCIP Abstract)

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DOES *PLASMODIUM FALCIPARUM* INDUCE SPECIFIC GENE EXPRESSION? COMPARISON WITH OTHER PATHOGENS

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(ACMCIP Abstract)

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GENETIC DIVERSITY STUDIES OF *PLASMODIUM FALCIPARUM* AND *PLASMODIUM VIVAX* ISOLATES CIRCULATING IN PANAMANIAN ENDEMIC AREAS

Jose E. Calzada, Ana M. Santamaría, Franklyn Samudio, Aracelis Miranda, Giovanna Santamaria, Vanesa Pineda, Azael Saldaña
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(ACMCIP Abstract)

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TRANSCRIPTIONAL ANALYSIS OF PUTATIVE FOLATE TRANSPORTER GENES IN *PLASMODIUM FALCIPARUM*

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(ACMCIP Abstract)

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STRAIN SPECIFICITY IN THE REQUIREMENT FOR MITOCHONDRIAL ELECTRON TRANSPORT IN ERYTHROCYTIC STAGE *PLASMODIUM FALCIPARUM*

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(ACMCIP Abstract)

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***PLASMODIUM FALCIPARUM* ERYTHROCYTE BINDING ANTIGEN (EBA) 175 GENE DIVERSITY IN MALARIA ENDEMIC AREA WITH SEASONAL VARIATION IN BURKINA FASO**

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(ACMCIP Abstract)

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GENETIC DIVERSITY OF THE CRITICAL BINDING MOTIF OF *P. VIVAX* DUFFY BINDING PROTEIN IN SRI LANKA

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EFFECT OF INSECTICIDE-TREATED BED NETS (ITNS) ON GENE POLYMORPHISMS OF *PLASMODIUM FALCIPARUM* VACCINE CANDIDATE ANTIGENS IN A MALARIA HOLOENDEMIC AREA OF WESTERN KENYA

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Malaria – Vaccines

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IMMUNOGENICITY OF TWO DOSES OF A MULTI-STAGE, MULTI-ANTIGEN ADENOVIRUS-VECTORED *P. FALCIPARUM* MALARIA VACCINE IN A PHASE 1 TRIAL

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DIFFERENT ASSESSMENT METHODS OF MALARIA MORBIDITY FOR FUTURE MALARIA VACCINE TRIAL IN A HIGH AND SEASONAL MALARIA TRANSMISSION AREA OF BURKINA FASO

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RANDOMIZED, CONTROLLED, DOSE ESCALATION PHASE 1 CLINICAL TRIAL TO EVALUATE THE SAFETY AND IMMUNOGENICITY OF WALTER REED ARMY INSTITUTE OF RESEARCH'S AMA-1 MALARIA VACCINE (FMP2.1) ADJUVANTED IN GSK BIOLOGICALS' AS02 VS. RABIES VACCINE IN 1-6 YEAR OLD CHILDREN IN BANDIAGARA, MALI

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A *P. FALCIPARUM* MULTI-ANTIGEN MULTI-STAGE PLASMID DNA PRIME/ADENOVECTOR BOOST VACCINE, NAVAL MEDICAL RESEARCH CENTER-M3V-D/AD-PFCA, IS IMMUNOGENIC IN BALB/C MICE

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PRODUCTION, CHARACTERIZATION AND IMMUNOLOGICAL EVALUATION OF AN *ESCHERICHIA COLI* EXPRESSED *PLASMODIUM FALCIPARUM* THROMBOSPONDIN RELATED APICAL MEROZOITE PROTEIN (PTRAMP), A PUTATIVE MALARIA VACCINE CANDIDATE

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PHASE 1 SAFETY AND IMMUNOGENICITY TRIAL OF A BLOOD-STAGE MALARIA VACCINE AMA1-C1/ISA 720 IN AUSTRALIAN ADULTS

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RATIONAL DESIGN OF A PAN-REACTIVE APICAL MEMBRANE ANTIGEN-1 BASED MALARIA VACCINE USING SEROTYPES AND EPI TOPE MAPS

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HEMATOLOGICAL PARAMETERS CHANGES IN CHILDREN LESS THAN SIX YEARS LIVING IN MALARIA ENDEMIC AREA: IMPLICATION FOR FUTURE MALARIA VACCINE TRIALS

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EXPRESSION AND LOCALIZATION OF *PLASMODIUM FALCIPARUM* MEROZOITE SURFACE PROTEIN 8 IN BLOOD STAGE MALARIA PARASITES

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(ACMCIP Abstract)

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IMMUNIZATION WITH RECOMBINANT PROTEINS OF A GAMETOCYTE PROTEIN PFS230 EXPRESSED USING WHEAT GERM CELL-FREE SYSTEM SUCCESSFULLY INDUCE TRANSMISSION-BLOCKING ANTIBODIES AGAINST *PLASMODIUM FALCIPARUM*

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NOVEL ANTIGENS AT *PLASMODIUM FALCIPARUM* SCHIZONT-MEROZOITE STAGES AS POTENTIAL VACCINE CANDIDATES

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***PLASMODIUM FALCIPARUM* MEROZOITE SURFACE PROTEIN 6 AS A BLOOD STAGE VACCINE CANDIDATE: ASSESSING GENETIC DIVERSITY AND ANTIBODY SPECIFICITY**

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(ACMCIP Abstract)



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ASSESSING PARASITE BURDEN IN *P.KNOWLESII*/RHESUS MONKEY SPOOROZITE CHALLENGE MODEL BY QUANTITATIVE REAL-TIME PCR AND HISTOLOGY

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(ACMCIP Abstract)

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DIRECT ALUM FORMULATION IMMUNOASSAY (DAFIA): AN IMMUNOFLUORESCENT ASSAY THAT DIRECTLY DETERMINES THE CONTENT, IDENTITY AND INTEGRITY OF ANTIGENS FORMULATED ON ALHYDROGEL

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Malaria/Mosquitoes –

Prevention of Transmission

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REDUCTION IN THE BURDEN OF MALARIAL ANEMIA: CONFIRMATION OF AN ANTI-VECTOR APPROACH... SOMETIMES.

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METABOLIC AND TARGET SITE INSECTICIDE RESISTANCE IN WILD *ANOPHELES VAGUS* IN CAMBODIA

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THE EFFECT OF BREASTFEEDING ON THE RISK OF MALARIA AMONG CHILDREN BORN TO HIV-INFECTED MOTHERS

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LONG-LASTING INSECTICIDAL HAMMOCK NETS (LLIHN) FOR CONTROLLING FOREST MALARIA IN VIETNAM

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FIELD PERFORMANCE OF A WASH RESISTANT INSECTICIDE TREATMENT KIT FOR MOSQUITO NETS IN THREE DIFFERENT SETTINGS IN UGANDA AND MOZAMBIQUE

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TARGETING SCHOOL CHILDREN FOR THE PREVENTION AND CONTROL OF COMMON ENDEMIC DISEASES IN SOUTHEAST NIGERIA

Amobi L. Ilika
Nnamdi Azikiwe University Teaching Hospital Nnewi Anambra State Nigeria, Nnewi, Nigeria

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IS MALARIAL PARASITEMIA RELATED TO THE NUMBER OF INSECTICIDE TREATED NETS IN A HOUSEHOLD? RESULTS FROM A NATIONAL POPULATION-BASED SURVEY IN ANGOLA

Erin Eckert, Shane Khan
Macro International Inc., Calverton, MD, United States

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TESTING COMPREHENSION AND ACCEPTABILITY OF PARASITE SYMBOLS TO STRENGTHEN ADHERENCE TO ANTIMALARIAL TREATMENT IN TANZANIA AND UGANDA

Ane E. Haaland¹, James P. Moloney²
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BED NET COVERAGE, USAGE AND CONDITION IN FISHING VILLAGES OF SUBA DISTRICT, WESTERN KENYA

Go Dida¹, M. Horio², G. Sonye³, K. Futami², S. Kaneko², M. Shimada², N. Minakawa²
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Mosquitoes –

Insecticide Resistance and Control

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DIFFERENTIAL INSECTICIDES SUSCEPTIBILITY OF THE MALARIA VECTOR *ANOPHELES ARABIENSIS* IN RURAL/URBAN SITES AT KHARTOUM CITY (SUDAN)

Osama Seidahmed
National Malaria Control Program, Khartoum, Sudan

Wednesday, December 10

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EVALUATING ULV MOSQUITO CONTROL APPLICATIONS IN A SOUTHERN CALIFORNIA DESERT HABITAT**Seth C. Britch**¹, Kenneth J. Linthicum¹, Willard W. Wynn¹, Todd W. Walker², Muhammad Farooq², Branka B. Lothrop³¹USDA-ARS-Center for Medical, Agricultural and Veterinary Entomology, Gainesville, FL, United States, ²U.S. Navy Entomology Center of Excellence, Jacksonville, FL, United States, ³Coachella Valley Mosquito and Vector Control District, Indio, CA, United States

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MONITORING OF PYRETHROID INSECTICIDES AND DDT AND THE KDR GENE ASSOCIATED IN ANOPHELES GAMBIAE S.L. IN FOUR VILLAGES OF BURKINA FASO**Athanase Badolo**¹, Imael H. Bassolé¹, Wandaogo M. Guelbeogo², N'Falé Sagnon², Edith Ilboudo-Sanogo²¹University of Ouagadougou, Ouagadougou, Burkina Faso, ²Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso

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FREQUENCY OF ACE-1 ET KDR MUTATIONS WITHIN THE ANOPHELES GAMBIAE POPULATION COMPLEX IN WEST BURKINA FASO**Moussa Namountougou**¹, Ali Ouari², Pierre Kengne³, Jean-Bosco Ouedraogo¹, Roch K. Dabire¹¹Institut de Recherche en Sciences de la Santé, Bobo-Dioulasso, Burkina Faso, ²Centre Muraz, Bobo-Dioulasso, Burkina Faso, ³Institut de Recherche pour le Développement, Montpellier, France

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DIFFERENTIAL EXPRESSION OF GENES IMPLICATED IN TEMEPHOS AND PERMETHRIN RESISTANCE ON MOSQUITO STRAINS OF AE. AEGYPTI**Karla L. Saavedra-Rodriguez**¹, Adriana E. Flores², William C. Black IV¹¹Colorado State University, Fort Collins, CO, United States, ²Facultad de Ciencias Biológicas, San Nicolas de los Garza, Mexico

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SEQUENTIAL DEVELOPMENT OF INSECTICIDE RESISTANCE MECHANISMS IN LABORATORY SELECTED DELTAMETHRIN ANOPHELES ALBIMANUS RESISTANT STRAIN**Ana G. Catalan**

Universidad del Valle de Guatemala, Guatemala, Guatemala

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SEARCH FOR MUTATIONS IN THE SUPER KDR REGION OF PARA IN Aedes Aegypti FROM LATIN AMERICA**Guadalupe C. Reyes-Solis**¹, Karla L. Saavedra-Rodriguez¹, Ludmel Urdaneta-Marquez¹, Nydia A. Rodriguez-Neaves², Gustavo Ponce-Garcia¹, Adriana E. Flores-Suarez², William C. Black IV¹¹Colorado State University, Fort Collins, CO, United States, ²Universidad Autonoma de Nuevo Leon, San Nicolas de los Garza, Mexico

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DIFFERENTIAL SUSCEPTIBILITY OF PERMETHRIN-RESISTANT ANOPHELES GAMBIAE TO INDIVIDUAL TOXINS OF A NEW ISOLATE OF BACILLUS THURINGIENSIS SUBSP. ISRAELENSIS**Mohamed Ibrahim**, Natalya Griko, Lee Bulla
Biological Targets, Inc., Pilot Point, TX, United States

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ACTIVITY OF ORAL INSECTICIDAL DRUGS AGAINST Aedes Aegypti AND ANOPHELES GAMBIAE**J. Jason Meckel**, Kevin C. Kobylinski, Douglas E. Brackney, Massamba Sylla, Brian D. Foy
Colorado State University, Fort Collins, CO, United States

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Aedes Aegypti MONITORING IN PUBLIC AND PRIVATE BUILDINGS USING OVITRAPS, GPS AND A SIMPLE COMPUTER SYSTEM IN THE CITIES OF CHETUMAL AND PLAYA DEL CARMEN MEXICOPedro Mis-Avila¹, Marco Dominguez-Galera¹, William May¹, Idefonso Fernandez-Salas², Lars Eisen³, **Saul Lozano-Fuentes**³¹Secretaria de Salud, Quintana Roo, Chetumal, Mexico, ²Universidad Autonoma de Nuevo Leon, Monterrey, Mexico, ³Colorado State University, Fort Collins, CO, United States

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THE RISE OF A KDR MUTATION IN Aedes Aegypti (L) IN MÉXICO**Gustavo Ponce**¹, Karla Saavedra¹, Saul Lozano¹, Guadalupe Reyes¹, Adriana E. Flores², William C. Black IV¹¹Colorado State University, Fort Collins, CO, United States, ²Universidad Autonoma de Nuevo Leon, Monterrey, Mexico

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GENETIC TECHNOLOGY FOR CONTROL OF DENGUE AND CHIKUNGUNYA**Luke Alphey**, S. S. Vasan, Derric Nimmo
Oxitec Limited, Oxford, United Kingdom**Mosquitoes – Molecular Genetics**

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MOLECULAR BASES OF POST-MATING BEHAVIOUR IN ANOPHELES GAMBIAEDavid W. Rogers¹, Emiliano Mancini², Miranda M. Whitten³, Francesco Baldini⁴, Janis Thailayil¹, Alessandra della Torre², Elena Levashina³, **Flaminia Catteruccia**¹¹Imperial College London, London, United Kingdom, ²Dip. Scienze di Sanità Pubblica, Università Sapienza, Rome, Italy, ³IBMC, Strasbourg, France, ⁴University of Perugia, Perugia, Italy



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IDENTIFICATION AND MOLECULAR CATALOGING OF HEMOCYTE SPECIFIC IMMUNE GENES FROM MALARIA VECTOR *A. GAMBIAE*

Rajnikant Dixit, Sanjeev Kumar, Lalita Gupta, Alvaro Molina-Cruz, Janneth Rodrigues, Jesus Valenzuela, Jose M. Ribeiro, Carolina Barillas-Mury
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DISSECTING *AEDES AEGYPTI* INNATE IMMUNE RESPONSES TO DENGUE VIRUS INFECTION

Jayme A. Souza-Neto¹, Jose L. Ramirez¹, Shuzhen Sim¹, Zhiyong Xi², George Dimopoulos¹
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MEIOTIC DRIVE SYSTEM GENE EXPRESSION PROFILING IN *AEDES AEGYPTI*

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A PUZZLING PATTERN OF INTROGRESSION IN THE *CULEX PIPIENS* COMPLEX IN EAST ASIA

Emilie Cameron, Dina Fonseca
Rutgers University, New Brunswick, NJ, United States

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QTL ANALYSIS OF DENV-2 DISSEMINATION IN A FERAL POPULATION OF *AEDES AEGYPTI* FROM TRINIDAD, WEST INDIES

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GUILT BY ASSOCIATION: GENE EXPRESSION DIFFERENCES IMPLICATED IN MATE RECOGNITION IN *ANOPHELES GAMBIAE* M AND S FORMS

Bryan J. Cassone¹, Zhong Guan², Bradley J. White¹, Karine Mouligne¹, Nora J. Besansky¹
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POPULATION STRUCTURE OF COLLECTIONS OF THE MOSQUITO *AEDES AEGYPTI* (DIPTERA: CULICIDAE) FROM COSTA RICA

Adrián E. Avendaño-López, Gustavo Gutiérrez-Espeleta, José M. Gutiérrez, Adriana Duarte-Madrigal, Olger Calderón-Arguedas
Universidad de Costa Rica, San José, Costa Rica

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POPULATION STRUCTURE OF THE MALARIA VECTOR *ANOPHELES ALBIMANUS* IN THE ATLANTIC AND PACIFIC REGIONS OF COLOMBIA BASED ON SEQUENCES OF THE MTDNA *COI* GENE

Lina A. Gutiérrez¹, Nelson Naranjo¹, Astrid V. Cienfuegos¹, Giovan F. Gomez¹, Shirley Luckhart², Jan E. Conn³, **Margarita M. Correa**¹
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DEVELOPMENT OF A HIGH-DENSITY SNP GENOTYPING ARRAY FOR THE VECTOR MOSQUITO *ANOPHELES GAMBIAE*, BY THE AGSNP CONSORTIUM

Marc Muskavitch¹, Dan Neafsey², Mara Lawniczak³, Daniel Park², Seth Redmond³, Nora Besansky⁴, George Christophides³, Roger Wiegand², Frank Collins⁴, Dyann Wirth⁵, Fotis Kafatos³
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GENETIC ASSOCIATION AND LINKAGE DISEQUILIBRIUM IN *ANOPHELES GAMBIAE* IMMUNE GENES

Caroline Harris¹, Isabelle Morlais², François Rousset³, Luc Abate¹, Didier Fontenille¹, Anna Cohuet¹
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Mosquitoes – Vector Biology – Epidemiology

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INTEGRATE MOSQUITO FORAGING IN ENVIRONMENTAL MANAGEMENT OF AQUATIC HABITATS FOR MALARIA CONTROL

Weidong Gu, Robert Novak
University of Alabama at Birmingham, Birmingham, AL, United States

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IDENTIFYING COVARIATES OF *ANOPHELES GAMBIAE* S.L. (DIPTERA: CULICIDAE) AQUATIC HABITAT DISTRIBUTION USING A POISSON REGRESSION MODEL, WITH A NON-CONSTANT, GAMMA-DISTRIBUTED MEAN

Benjamin G. Jacob, Robert Novak
University of Alabama, Birmingham, AL, United States

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ECOLOGICAL BASIS OF SWARMING AND MATING BEHAVIOUR IN NATURAL POPULATIONS OF *ANOPHELES GAMBIAE* S.S., IN BURKINA FASO

Simon P. Sawadogo¹, Antoine Sanon², Idrissa Dicko³, Abdoulaye Diabate¹, Robert T. Guiguemde⁴, Jean-Bosco Ouedraogo¹, Roch K. Dabire¹
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HOST-FEEDING PATTERNS OF *AEDES AEGYPTI* AND *AEDES ALBOPICTUS* IN NEW ORLEANS, LOUISIANA, 2006

Sarah R. Michaels¹, Jason W. Houdek¹, Brian D. Byrd¹, Mark A. Rider¹, Gabriela Estrada², Dawn M. Wesson¹
¹*Tulane University, New Orleans, LA, United States*, ²*Loyola University, New Orleans, LA, United States*

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LARVAL ECOLOGY OF TWO CHROMOSOMAL FORMS OF *ANOPHELES FUNESTUS* IN WEST OF BURKINA FASO: LARVAE TRANSPLANTATION EXPERIENCE

Hyacinthe K. Toe¹, N'Falé Sagnon², Robert T. Guiguemde³, Jean-Bosco Ouedraogo¹, Roch K. Dabire¹
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THE ROLE OF THE RNAI PATHWAY IN THE MIDGUT OF *AEDES AEGYPTI* MOSQUITOES ON VECTOR COMPETENCE FOR ARBOVIRUSES

Cynthia C. Khoo, Joe Piper, Kenneth E. Olson, Alexander W. Franz
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(ACMCIP Abstract)

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COMPARATIVE POPULATION GENETICS: *CULEX RESTUANS* VERSUS *CX. PIPPIENS* IN THE EASTERN US

Dina M. Fonseca¹, Laura D. Kramer²
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EFFECTS OF SINGLE HOST ODORS AND ODOR COMBINATIONS ON FLIGHT CHARACTERISTICS OF *AEDES AEGYPTI* AND *AEDES ALBOPICTUS*

Sandra A. Allan¹, Ulrich R. Bernier¹, Daniel L. Kline¹, Miriam F. Cooperband²
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RISK FACTORS RELATED TO THE NUMBER OF *AEDES AEGYPTI* PUPAE IN THE DISTRICT OF COMAS, LIMA, PERU

Fanny Castro-Llanos¹, Carmen Flores-Mendoza¹, Fernando Chapilliquen², Luis Cubillas², Andrés G. Lescano³, Juan Pérez¹, Karin Cruz², Julio Lacma², David Florin¹
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OVIPOSITION SITE SELECTION IN THE DENGUE VECTOR, *AEDES AEGYPTI*

Jacklyn Wong, Amy C. Morrison, Helvio Astete, Thomas W. Scott
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DETERMINING FACTORS THAT PREDICT WEST NILE VIRUS POSITIVE MOSQUITO POOLS IN THREE LOUISIANA PARISHES

Rebecca C. Christofferson¹, Christopher N. Mores¹, Alma Roy¹, Dawn M. Wesson²
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SIMULATION MODELS WILL INFORM SITUATION-SPECIFIC DENGUE PREVENTION STRATEGIES

Tessa B. Knox¹, Dana A. Focks², Andres J. Garcia², Tadeusz J. Kochel³, Amy C. Morrison¹, Thomas W. Scott¹
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RAINFALL AND THE *CULEX PIPPIENS* COMPLEX: HOW MUCH IS TOO MUCH?

Christopher M. Barker¹, William K. Reisen¹, Wesley O. Johnson², Bborie K. Park¹, Bruce F. Eldridge¹
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CHARACTERIZATION OF IMMUNOGENIC PROTEINS IN *AN. GAMBIAE* SALIVARY GLANDS AND THEIR POTENTIAL USE AS A MARKER OF EXPOSURE TO MALARIA

Sylvie Cornelie¹, Marie Senglat¹, Souleymane Doucoure², Edith Demetree³, Franck Remoue¹
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MALARIA VECTOR BREEDING SITES AND ASSESSING THEIR IMPACT ON LOCAL MALARIA RISK: PRELIMINARY DATA ON THE RISK FACTORS FOR MALARIA INFECTION

Themba Mzilahowa
 Malawi-Liverpool Wellcome Trust Clinical Research Programme, Blantyre, Malawi

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THE IMPACT OF IMPREGNATED SUDANESE THOBS ON HUMAN/VECTOR CONTACT OF *ANOPHELES ARABIENSIS* IN ENDEMIC AREA OF MALARIA – SUDAN

Raya A. El Awad¹, Samia Amin El Karib², Omer Zaid Baraka³, Abdel Hameed Derdeery Nugud¹, Suad Mohamed Sulaiman⁴
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ENTOMOLOGICAL SURVEY ON DENGUE VECTORS AS FOR BASIS ON PREVENTION AND CONTROL IN BARANGAY POBLACION, MUNTINLUPA CITY, 2008

Estrella Irlandez C ruz¹, Juancho Bunyi²
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CALCIUM ALGINATE FORMULATIONS OF BACTERIA FROM PLANT INFUSIONS PRODUCE OVIPOSITION ATTRACTANTS AND STIMULANTS FOR GRAVID *Aedes aegypti* AND *Aedes albopictus*

Loganathan Ponnusamy¹, Luma Abu Ayyash¹, Toshi Nojima¹, Philipp Kirsch², Dawn M. Wesson³, Coby Schal¹, **Charles S. Apperson**¹
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MOSQUITOES, CATCH BASINS, HYDROLOGY, AND RISK OF WEST NILE VIRUS IN ILLINOIS

Marilyn O. Ruiz¹, Kelly DeBaene¹, Jane Messina¹, Murugesu Sivapalan¹, Hongyi Li¹, Gabe Hamer², William Brown¹, Edward Walker²
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VIRAL ETIOLOGY OF ACUTE FEBRILE ILLNESSES IN SOUTH AMERICA, 2000-2007

Brett M. Forshey¹, Carolina Guevara¹, V. Alberto Laguna¹, Luis Suarez², Paul Pachas², Jorge Gómez², Manuel Céspedes³, Eduardo Gotuzzo⁴, Nora Reyes⁵, Roberto Agudo⁶, Efrain Vallejo⁶, Jorge Vargas⁷, Yelin Roca⁷, Nicolas Aguayo⁸, Cesar Madrid⁹, Franklin Delgado⁹, Silvia Montano¹, Tadeusz J. Kochel¹, FSS Peruvian Working Team¹
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REEMERGENCE OF BOLIVIAN HEMORRHAGIC FEVER IN BOLIVIA 2007 – 2008

Roxana Caceda¹, Patricia Aguilar¹, Vidal Felices¹, Alfredo Huaman¹, Carolina Guevara¹, Jorge Vargas², Tadeusz Kochel¹
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RESISTANCE TO ADAMANTANES AND NEURAMINIDASE INHIBITORS AMONG INFLUENZA VIRUSES ISOLATED IN CENTRAL AND SOUTH AMERICA IN 2005-2007

Josefina Garcia¹, Merly Sovero¹, Alberto Laguna¹, Jorge Gómez², Richard Douce³, Melvin Barrantes⁴, Felix Sanchez⁵, Mirna Jiménez⁶, Guillermo Comach⁷, Ivette de Rivera⁸, Roberto Agudo⁹, Tadeusz J. Kochel¹
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DERMATOLOGIC CONDITIONS IN “HEALTHY HTLV-I CARRIERS”

Manuel Villaran¹, Eberth Quijano², Marie Wang³, Silvia M. Montano¹, Joseph R. Zunt⁴
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Wednesday, December 10

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ANDES VIRAL RNA LOAD IN CHILEAN PATIENTS WITH HANTAVIRUS CARDIOPULMONARY SYNDROME

Vial A. Pablo¹, G. J. Mertz², M. Ferrés³, H. Galeno⁴, E. Belmar¹, R. Aldunate³, C. Castillo⁵, L. M. Noriega¹, M. Tapia⁶, S. Donoso⁶, C. Ortega⁶, E. Navarro⁶, J. J. Arriagada⁶, L. A. Scholtz⁶, Pablo Ferrer⁴, P. Godoy³, R. Ibañez³, B. Hjelle²

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DETECTION OF HAMSTER CYTOKINE RESPONSES BY REAL-TIME PCR

Stephanie James, Tony Schountz

University of Northern Colorado, Greeley, CO, United States

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FIRST CHARACTERIZATION OF CYTOKINE GENES FROM A BAT, USING SEBA'S SHORT-TAILED BAT (*CAROLLIA PERSPICILLATA*)

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GENETIC VARIABILITY OF RVFV IN WEST AFRICA: IMPLICATIONS FOR VIRUS DISPERSAL AND DISTRIBUTION

Peinda O. Soumaré¹, Paolo M. Zanutto², Ousmane Faye¹, Mohamadou L. Soumaré³, Mady Ndiaye³, Mawlouth Diallo¹, Amadou A. Sall¹

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EARLY DETECTION OF HANTAVIRUS ACUTE INFECTION AND ECOLOGY STUDIES IN TONOSI, PANAMA. 2007-2008

Blas Armien¹, Jamileth Mariñas², Carlos Muñoz³, Anibal Armien⁴, Juan M. Pascale¹, Ariosto Hernandez², Deyanira Sanchez², Mario Avila⁵, Publio Gonzalez¹, Candida Broce³, Ricardo Correa¹, Loyd Marchena¹, Fernando Gracia⁶, Gregory E. Glass⁷, Frederick Koster⁸

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VECTOR COMPETENCE OF *ANOPHELES GAMBIAE SENSU STRICTU* FOR O'NYONG-NYONG VIRUS

Rodman D. Tompkins II, Corey L. Campbell, **Brian D. Foy**
Colorado State University, Fort Collins, CO, United States

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DISEASE BURDEN DUE TO DENGUE AND INFLUENZA IN AN INDONESIAN FACTORY WORKER COHORT

Nugroho H. Susanto¹, Ardini S. Raksanegara², Bacht Alisjahbana³, Primal Sudjana³, Hadi Jusuf³, Pandji I. Rudiman³, Haditya L. Mukhri¹, Maya Williams¹, Patrick J. Blair¹, Charmagne G. Beckett⁴, Kevin R. Porter⁴, Ratna I. Tan¹, Timothy H. Burgess¹, Herman Kosasih¹

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NOVEL METHODS OF DETECTION AND CHARACTERIZATION OF RNA VIRUS PATHOGENS AND THEIR HOSTS IN THE KYRGYZ REPUBLIC

Benjamin J. Briggs

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CHIKUNGUNYA VIRUS – MECHANISM OF ADAPTATION TO *AE. ALBOPICTUS* MOSQUITO

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(ACMCIP Abstract)

Poster Session C ACMCIP Abstracts – Molecular, Cellular And Immunoparasitology

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Membership Committee Meeting

Salon 816

Wednesday, December 10, 12:15 p.m. – 1:15 p.m.

Certificate Exam Committee Meeting

Salon 829

Wednesday, December 10, 12:15 p.m. – 1:15 p.m.



Mid-Day Session 135

Pediatric Tuberculosis: A Neglected Tropical Disease?

Rhythms IIIII

Wednesday, December 10, 12:15 p.m. – 1:15 p.m.

The Speaker, a pediatric infectious diseases specialist with expertise in pediatric tuberculosis, will review the worldwide impact of this disease and the special challenges for diagnosing, treating and controlling tuberculosis in children.

CHAIR

Richard Oberhelman
Tulane School of Public Health, New Orleans, LA, United States

PEDIATRIC TUBERCULOSIS: A NEGLECTED TROPICAL DISEASE?

Jeffrey R. Starke
Baylor College of Medicine, Houston, TX, United States

Mid-Day Session 136

How Can We Tackle the Misuse of Science by Alarmists?

Waterbury

Wednesday, December 10, 12:15 p.m. – 1:15 p.m.

Alarmists are increasingly powerful in matters of public policy. At present, climate change is their defining moral and political issue, and vector-borne diseases feature high in their list of prophecies. These prophecies are couched in the language of science, but sidestep complexity by providing the media and the public with authoritative, clear-cut and intuitively plausible statements that omit all elements of doubt. Scientists who question them are denounced as an insignificant minority, often as stooges of industry. As a result, alarmists are highly influential in science-based issues, including the public funding of science. This session will present a statistical analysis of networks of authorship that have had a prominent impact on public perception of two issues in the climate change debate: (1) mean temperature changes in the northern hemisphere over the past millennium—the controversial “Hockey Stick” reconstruction, and (2) the impact of current and future climate change on the prevalence and incidence of vector-borne diseases. In both cases I demonstrate that the authors involved operate as a clique or “social group” that has little or no interaction with the mainstream of the respective fields, but are nevertheless pivotal players in the climate change debate, with substantial influence on authoritative bodies such as the Intergovernmental Panel on Climate Change (IPCC). The objective of the symposium is to promote discussion of strategies to counter alarmist tactics and the misuse of science.

CHAIR

Paul Reiter
Institut Pasteur, Paris, France

SPEAKER

Paul Reiter
Institut Pasteur, Paris, France

Mid-Day Session 136A

Video on Malaria: “Survival - The Plant That Cures Malaria”

Bayside BC

Wednesday, December 10, 12:15 p.m. - 1:15 p.m.

Malaria kills a child in Africa every 30 seconds. The disease is both the cause and effect of Africa's poverty. But in Uganda, a pioneering farmer, Clovis Kabaseke, believes he has an answer to both problems. Artemisia, a Chinese herb, produces chemicals in its leaves that can cure Malaria in just three days. These exciting new drugs – Artemisinin-based Combination Therapies, or ACTs - are one of the best new hopes for defeating Malaria. Clovis hopes that by encouraging African farmers to grow the plant in ever increasing amounts, he can cure both poverty and this deadly disease.

Meet the Professors 137

Meet the Professors C: Enigmatic and Teaching Cases

Grand Ballroom A

Wednesday, December 10, 12:15 p.m. – 1:15 p.m.

A panel of professors will each present one clinical case of a tropical disease specific to a particular region that they have found a challenge to manage or diagnose. If there is time, participants may be able to present enigmatic cases for the audience and panel to consider. An open discussion will be encouraged, with audience participation.

CHAIR

Anne McCarthy
Ottawa Hospital, Ottawa, ON, Canada

PRESENTERS

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

Anne McCarthy
Ottawa Hospital, Ottawa, ON, Canada

Wednesday, December 10

Mid-Day Session 138

Wellcome Trust Public Health and Tropical Medicine Fellowships Masterclass

Grand Ballroom D

Wednesday, December 10, 12:15 p.m. – 1:15 p.m.

At this symposium, speakers will discuss research opportunities, funding schemes and application tips for a successful research career in tropical medicine. If you are an aspiring scientist or a potential supervisor or sponsor of fellows, this Masterclass could provide the knowledge you need for success.

CHAIR

Michael Chew
The Wellcome Trust, London, United Kingdom

12:15 p.m.

TIPS FOR A SUCCESSFUL FELLOWSHIP APPLICATION

Michael Chew
The Wellcome Trust, London, United Kingdom

12:35 p.m.

THE INTERVIEW PROCESS – HOW TO MAXIMIZE YOUR CHANCES

Philip T. LoVerde
Southwest Foundation for Biomedical Research, San Antonio, TX, United States

12:50 p.m.

RESEARCH OPPORTUNITIES AND FUNDING SCHEMES

Annabel Phillips
The Wellcome Trust, London, United Kingdom

1 p.m.

QUESTIONS AND ANSWERS

Poster Session C Viewing

Armstrong Ballroom

Wednesday, December 10, 1:30 p.m. – 7 p.m.

Symposium 139

Potentiation of Disease by Arthropod Saliva

Gallery

Wednesday, December 10, 1:30 p.m. – 3:15 p.m.

The topics of this symposium will be directed towards salivary immune modulation, potentiation of disease and disease pathogenesis by salivary components. Salivary components role in anti-arthropod vaccines will also be covered.

CHAIR

Richard Titus
Colorado State University, Fort Collins, CO, United States
William Wheat
Colorado State University, Fort Collins, CO, United States

1:30 p.m.

SALIVARY COMPONENT MAXADILAN AFFECTS MURINE DENDRITIC CELLS BY POTENTIALLY ENHANCING TYPE 2 IMMUNITY

William Wheat
Colorado State University, Fort Collins, CO, United States

1:55 p.m.

VARIABILITY IN THE SAND FLY SALIVARY PROTEIN MAXADILAN: IMPLICATIONS TO HOST IMMUNE RESPONSE AND LEISHMANIA PATHOGENESIS

Gregory C. Lanzaro
University of California, Davis, CA, United States

2:20 p.m.

HOW TO TURN POTENTIATION TO PROTECTION: IMPACT OF IMMUNITY TO SAND FLY SALIVA ON LEISHMANIASIS

Jesus G. Valenzuela
National Institute of Allergy and Infectious Disease, National Institutes of Health, Rockville, MD, United States

2:45 p.m.

TICKS, BORRELIA AND SALIVA: A TALE OF CYTOKINES AND CYTOTOXIC

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

Scientific Session 140

Filariasis III – Epidemiology I

Rhythms I

Wednesday, December 10, 1:30 p.m. – 3:15 p.m.

CHAIR

LeAnne M. Fox
Centers for Disease Control and Prevention, Atlanta, GA, United States

Dominique Kyelem
Lymphatic Filariasis Support Center, Decatur, GA, United States

1:30 p.m.

1112

DETERMINANTS AFFECTING OUTCOMES OF NATIONAL PROGRAMS TO ELIMINATE LYMPHATIC FILARIASIS (LF): DEFINING RESEARCHABLE PRIORITIES

Dominique Kyelem¹, Gautam Biswas², Moses Bockarie³, Mark Bradley⁴, Maged El-Setouhy El-Setouhy⁵, Peter Fischer⁶, Ralph Henderson¹, James Kazura³, Patrick J. Lammie⁷, Sammy M. Njenga⁸, Eric A. Ottesen¹, Kapa Ramaiah⁹, Frank Richards¹⁰, Gary Weil⁶, Steve Williams¹¹

¹Lymphatic Filariasis Support Center, Decatur, GA, United States, ²World Health Organization, Geneva, Switzerland, ³Case Western Reserve University, Cleveland, OH, United States, ⁴GlaxoSmith-Kline, London, United Kingdom, ⁵Ain Shams University, Cairo, Egypt, ⁶Washington University, St. Louis, MO, United States, ⁷Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁸Kenya Medical Research Institute, Nairobi, Kenya, ⁹Vector Control Reserach Centre, Pondicherry, India, ¹⁰Carter Center, Atlanta, GA, United States, ¹¹Clark Science Center, Smith College, Northampton, MA, United States

1:45 p.m.

1113

EVALUATION OF DIAGNOSTIC TOOLS FOR BRUGIAN FILARIASIS ELIMINATION PROGRAMS

Taniawati Supali¹, Rahmah Noordin², Felix Liauw¹, Heri Wibowo¹, Tajul A. Awang Mohd³, Kimberly Y. Wong⁴, Peter U. Fischer⁵, Gary J. Weil⁵

¹University of Indonesia, Jakarta, Indonesia, ²University Sains Malaysia, Penang, Malaysia, ³Vector-Borne Disease Section, Sabah Health Office, Kota Kinabalu, Malaysia, ⁴Centers for Disease Control, Atlanta, GA, United States, ⁵Washington University School of Medicine, St. Louis, MO, United States

2 p.m.

1114

SPATIAL MODELING OF LYMPHATIC FILARIASIS RISK IN AMERICAN SAMOA BASED ON EPIDEMIOLOGICAL AND ENTOMOLOGICAL DATA

Eric W. Chambers¹, Janice Mladonicky¹, Jonathan D. King¹, Jennifer L. Liang¹, Shannon K. McClintock¹, Mark A. Schmaedick², Molisamoa Pa'au³, Mark H. Bradley⁴, Thomas R. Burkot¹, Patrick J. Lammie¹

¹Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Division of Community and Natural Resources, American Samoa Community College, Pago Pago, American Samoa, ³American Samoa Department of Health, Pago Pago, American Samoa, ⁴Global Community Partnerships, GlaxoSmithKline, Brentford, United Kingdom

2:15 p.m.

1115

COMPREHENSIVE MONITORING OF THE IMPACT OF A PILOT MASS DRUG ADMINISTRATION PROJECT FOR FILARIASIS IN PAPUA NEW GUINEA

Gary J. Weil¹, Will Kastens², Melinda Susapu³, Sandra Laney⁴, Steven A. Williams⁴, Christopher L. King², James W. Kazura², Moses J. Bockarie³

¹Washington University School of Medicine, St. Louis, MO, United States, ²Case Western Reserve University, Cleveland, OH, United States, ³Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ⁴Smith College, Northampton, MA, United States

2:30 p.m.

1116

IMPLEMENTATION AND MANAGEMENT OF LF CONTROL AND ELIMINATION PROGRAMMES: EIGHT YEARS OF EXPERIENCE FROM TANZANIA

Mwele N. Malecela¹, Peter Kilima², Charles D. Mackenzie³
¹National Institute for Medical Research, Dar-es-salaam, United Republic of Tanzania, ²Senior Consultant, Dar-es-salaam, United Republic of Tanzania, ³Filarial Diseases Unit, Michigan State University, East Lansing, MI, United States

2:45 p.m.

1117

PROGRESS TOWARD LYMPHATIC FILARIASIS (LF) ELIMINATION IN PLATEAU AND NASARAWA STATES, NIGERIA: SENTINEL VILLAGE EPIDEMIOLOGICAL AND ENTOMOLOGICAL EVALUATIONS AFTER SIX YEARS OF ANNUAL MASS DRUG ADMINISTRATION WITH IVERMECTIN AND ALBENDAZOLE.

Frank O. Richards¹, Abel Eigege², Alphonsus Kal², Y. Sambo², J. Danboyi², B. Ibrahim³, D. Kumbak², Gladys Ogah⁴, D. Goshit³, Ngozi A. Njepuome⁵, John Umaru², Lindsay J. Rakers¹, Donald R. Hopkins¹, Emmanuel S. Miri²

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Jos, Nigeria, ³Plateau State Ministry of Health, Jos, Nigeria, ⁴Nasarawa State Ministry of Health, Lafia, Nigeria, ⁵Nigeria, Federal Ministry of Health, Abuja, Nigeria

3 p.m.

1118

INCREASING ADHERENCE TO MASS DRUG ADMINISTRATION FOR LYMPHATIC FILARIASIS – ORISSA STATE, INDIA

Paul T. Cantey¹, Jonathan Rout², Grace Rao², Soumendra Dhir², LeAnne Fox¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Church's Auxiliary for Social Action, Bhubaneswar, India

Symposium 141**Benign Tertian Malaria? Examining Severe Disease Caused by *Plasmodium vivax****Rhythms III/III***Wednesday, December 10, 1:30 p.m. – 3:15 p.m.**

Molecular diagnostics in a few clinical malaria studies in endemic areas ruled out falciparum malaria in patients experiencing otherwise typical severe and complicated falciparum malaria syndromes. Patients with hyperparasitemia, anemia, hypoglycemia, jaundice, respiratory distress, renal failure and seizures or coma had nested PCR findings negative for *P. falciparum* and positive for *P. vivax*. If more detailed studies of such patients also rule out infections like dengue, leptospirosis, viral encephalitides, the rickettsiae, bacterial sepsis and typhoid, the broad perception of infection by *P. vivax* as "benign" may require reassessment. This symposium examines the available evidence, both historic and contemporary, supporting the hypothesis that *P. vivax* mono-infection causes, at least occasionally and perhaps under specific conditions of exposure to infection(s), a spectrum of syndromes of severe & complicated malaria largely mirroring those of *P. falciparum*. Three separate research groups, all working at different sites on the island of New Guinea, report findings from recent or ongoing prospective hospital-based studies of vivax malaria from this heavily endemic zone. One group also presents pathophysiological studies of lung injury with vivax malaria. The symposium aims to provide clinicians & investigators with an understanding of the available evidence for a malignant vivax malaria, and, more importantly, the gaps in that body of evidence.

CHAIR

J. Kevin Baird
Oxford University, Jakarta, Indonesia
Nicholas J. White
Mahidol University, Bangkok, Thailand

1:30 p.m.**BENIGN TERTIAN MALARIA?**

Robert W. Taylor
Oxford University Clinical Research Unit, Hanoi, Vietnam.

1:50 p.m.**SEVERE AND COMPLICATED VIVAX MALARIA: GOROKA, PAPUA NEW GUINEA**

Blaise Genton
Swiss Tropical Institute, Basel, Switzerland

2:10 p.m.**SEVERE & COMPLICATED VIVAX MALARIA: TIMIKA, INDONESIAN PAPUA**

Ric Price
Menzies School of Health Research and Charles Darwin University, Darwin, Australia

2:30 p.m.**SEVERE AND COMPLICATED VIVAX MALARIA: JAYAPURA, INDONESIAN PAPUA**

Din Syafruddin
Eijkman Institute for Molecular Biology, Jakarta, Indonesia

2:50 p.m.**PATHOPHYSIOLOGY OF SEVERE VIVAX MALARIA**

Nick Anstey
Menzies School of Health Research, Charles Darwin University, Darwin, Australia

Symposium 142**Global Enteric Multi-Center Study (GEMS): The Asian Sites And An Overall Progress Report***Waterbury***Wednesday, December 10, 1:30 p.m. – 3:15 p.m.**

Diarrheal diseases remain the second most common cause of infant and young child deaths in developing countries. The Global Enteric Multi-Center Study funded by the Bill & Melinda Gates Foundation follows a common rigorous protocol to measure the burden of moderate and severe diarrheal illness and to identify etiologic agents (utilizing state of the art molecular diagnostic techniques) from cases and controls in three sites in Asia and five in sub-Saharan Africa. This symposium will provide descriptions and updates of data from the three Asian sites (Mirzapur, Bangladesh, Kolkata India and Sind Province, Pakistan), as well as an overview progress report and a compilation of data from all eight GEMS sites.

CHAIR

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

1:30 p.m.**PEDIATRIC DIARRHEAL DISEASE IN MIRZAPUR, BANGLADESH, A RURAL SETTING**

ASG Faruque
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

1:55 p.m.**PEDIATRIC DIARRHEAL DISEASE IN SIND PROVINCE, PAKISTAN**

Anita Zaidi
Aga Khan University Medical College, Karachi, Pakistan

2:20 p.m.**PEDIATRIC DIARRHEAL DISEASE IN KOLKATA, INDIA, AN URBAN SETTING**

Dipika Sur
National Institute of Cholera and Enteric Diseases, Kolkata, India

2:45 p.m.**OVERVIEW OF THE FULL GEMS PROJECT AND INITIAL INSIGHTS ON BURDEN, CLINICAL PRESENTATIONS AND ETIOLOGY OF PEDIATRIC DIARRHEAL DISEASE IN DEVELOPING COUNTRIES IN ASIA AND SUB-SAHARAN AFRICA**

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

Symposium 143**Information Technology for Research Collaboration and Training in Developing Countries***Napoleon A123***Wednesday, December 10, 1:30 p.m. – 3:15 p.m.**

This symposium will explore how information technology is being used to facilitate research collaboration and training in developing countries in Africa, Asia and Latin America by infectious disease researchers supported by the Fogarty International Center's Global Infectious Research Training and the Informatics Training for Global Health programs. Presentations will describe the success and limitations of using currently available technologies for distance learning, internet conferencing, online curriculum and electronic data collection, analysis and exchange.

CHAIR

Barbara Sina
Fogarty International Center, National Institutes of Health, Bethesda, United States

1:30 p.m.**BUILDING RESEARCH AND HUMAN CAPACITY ONE LINK AT A TIME: THE NATIONAL LIBRARY OF MEDICINE'S INTERNATIONAL INFORMATION INTERVENTIONS**

Julia Royall
National Library of Medicine/National Institutes of Health, Bethesda, MD, United States

1:55 p.m.**INTERNET CONFERENCING FOR INFECTIOUS DISEASE RESEARCH TRAINING IN COLOMBIA**

Nancy Gore Saravia
CIDEIM, Cali, Colombia

2:20 p.m.**INFORMATICS TRAINING FOR MALARIA RESEARCH IN MALI**

Frances Mather
Tulane University, New Orleans, LA, United States



2:45 p.m.

ONLINE CURRICULUM FOR PUBLIC HEALTH RESEARCH TRAINING IN INDIA

Gagandeep Kang
Christian Medical College, Vellore, India

Scientific Session 144

Malaria – Drug Resistance

Maurepas

Wednesday, December 10, 1:30 p.m. – 3:15 p.m.

CHAIR

Franka Teuscher
Queensland Institute of Medical Research, Enoggera, Brisbane, Australia

Chansuda Wongsrichanalai
USAID Regional Development Mission – Asia, Bangkok, Thailand

1:30 p.m.

1119

DELAYED *P. FALCIPARUM* PARASITE CLEARANCE FOLLOWING ARTESUNATE-MEFLOQUINE COMBINATION THERAPY IN THAILAND, 1997-2007

Saowanit Vijaykadga¹, Alisa P. Alker², Dokrak Tongkong¹, Malee Chansawang¹, Agat Nakavet¹, Thaiboonyong Puangpeeapichai¹, Sawat Cholpol¹, Arunya Pinyoratanachote¹, Sanya Sukkam¹, Wichai Satimai¹, Steven R. Meshnick³, Chansuda Wongsrichanalai⁴

¹Bureau of Vector Borne Diseases, Department of Diseases Control, Ministry of Public Health, Bangkok, Thailand,

²Department of Medicine, University of North Carolina School of Medicine, Chapel Hill, NC, United States, ³University of North Carolina School of Public Health, Chapel Hill, NC, United States, ⁴USAID Regional Development Mission – Asia, Bangkok, Thailand

1:45 p.m.

1120

TREATMENT OF *P. FALCIPARUM* MALARIA WITH ARTESUNATE-MEFLOQUINE-PRIMAQUINE COMBINATION THERAPY IN TRAT PROVINCE, THAILAND

Wichai Satimai¹, Delia Bethell², Krisada Jongsakul², Bryan Smith², Sabaithip Sriwichai², Dokrak Tongkong³, Mark Fukuda²
¹Ministry of Public Health, Nonthaburi, Thailand, ²Armed Forces Research Institute of the Medical Sciences, Bangkok, Thailand, ³Office of Vector-Borne Disease Control, Maung, Thailand

2 p.m.

1121

DURATION AND RECOVERY RATES OF ARTEMISININ INDUCED DORMANCY IN *PLASMODIUM FALCIPARUM* IN VITRO

Franka Teuscher¹, Michelle Gatton¹, Nanhua Chen², Jennifer Peters², Dennis E. Kyle³, Qin Cheng²
¹Queensland Institute of Medical Research, Brisbane, Australia, ²Australian Army Malaria Institute, Brisbane, Australia, ³University of South Florida, Tampa, FL, United States

2:15 p.m.

1122

EXAMINATION OF THE MOLECULAR BASIS OF RESISTANCE TO ARTEMISININ DRUGS IN *PLASMODIUM FALCIPARUM*

Matthew S. Tucker¹, Jennifer Peters², Martin Nau³, Zhinning Wang³, Qin Cheng⁴, Maryanne Vahey³, Susan Lukas¹, Azliyati Azizan¹, Dennis E. Kyle¹

¹University of South Florida, Tampa, FL, United States,

²Queensland Institute of Medical Research, Brisbane, Australia,

³Walter Reed Army Institute of Research, Rockville, MD, United States, ⁴Australian Army Malaria Institute, Enoggera, Australia

(ACMCIP Abstract)

2:30 p.m.

1123

ADAPTIVE COPY NUMBER EVOLUTION OF A KEY GENE IN THE FOLATE PATHWAY OF MALARIA PARASITES

Shalini Nair¹, Jigar Patel², Becky Miller³, Marion Barends⁴, Anchalee Jaidee⁴, Mayfong Mayxay⁵, Paul Newton⁵, Francois Nosten⁴, Mike Ferdig³, Tim Anderson¹

¹Southwest Foundation for Biomedical Research, San Antonio, TX, United States, ²Roche NimbleGen Inc, Madison, WI, United States, ³University of Notre Dame, South Bend, IN, United States, ⁴Shoklo Malaria Research Unit, Mae Sot, Thailand,

⁵Wellcome Trust – Mahosot Hospital – Oxford Tropical Medicine Research Collaboration, Vientiane, Lao People's Democratic Republic

2:45 p.m.

1124

INTERMITTENT PRESUMPTIVE TREATMENT FOR MALARIA DURING PREGNANCY: REDUCED EFFICACY AND SELECTION FOR RESISTANCE

Whitney E. Harrington¹, Theonest K. Mutabingwa², Melissa Bolla³, Bess Sorensen³, Michal Fried³, Patrick E. Duffy³

¹University of Washington and Seattle Biomedical Research Institute, Seattle, WA, United States, ²Muheza Designated District Hospital, Muheza, United Republic of Tanzania

³Seattle Biomedical Research Institute, Seattle, WA, United States

3 p.m.

1125

ARTEMETHER-LUMEFANTRINE VERSUS DIHYDROARTEMISININ-PIPERAQUINE FOR TREATMENT OF UNCOMPLICATED *FALCIPARUM* MALARIA: A RANDOMIZED TRIAL TO GUIDE NATIONAL POLICY IN UGANDA

Yeka Adoke¹, Grant Dorsey², Moses R. Kamya³, Ambrose Talisuna⁴, Myers Lugemwa⁴, John B. Rwakimari⁴, Sarah G. Staedke⁵, Philip J. Rosenthal², Fred W. Mangan³, Hasifa Bukirwa¹

¹Uganda Malaria Surveillance Project, Kampala, Uganda,

²University of California, San Francisco, CA, United States,

³Makerere University, Kampala, Uganda, ⁴Uganda Ministry of Health, Kampala, Uganda, ⁵London School of Hygiene and Tropical Medicine, London, United Kingdom

Wednesday, December 10

Scientific Session 145

Viruses I

Bayside A

Wednesday, December 10, 1:30 p.m. – 3:15 p.m.

CHAIR

Lina M. Moses
Tulane University, New Orleans, LA, United States

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

1:30 p.m.

1126

CYTOKINE EXPRESSION IN A HAMSTER MODEL OF HANTAVIRUS PULMONARY SYNDROME

Martin H. Richter, Mary Louise Milazzo, Eduardo J. Eyzaguirre, Charles F. Fulhorst
University of Texas Medical Branch Galveston, Galveston, TX,
United States

1:45 p.m.

1127

CLINICAL COURSE OF HANTAVIRUS CARDIOPULMONARY SYNDROME IN CHILEAN PATIENTS

Vial A. Pablo¹, M. Ferres², F. Valdivieso¹, I. Delgado¹, M. Calvo³, C. Castillo³, S. Donoso³, E. Navarro³, Y. Hernandez³, R. Diaz³, R. Riquelme³, L. Scholtz³, L. M. Noriega¹, V. Tomicic¹, E. Belmar¹, A. Cuiza¹, M. Tapia³, J. J. Arriagada³, E. Tassara³, B. Hjelle⁴, G. J. Mertz⁴
¹Clinica Alemana Universidad del Desarrollo, Santiago, Chile,
²Universidad Católica, Santiago, Chile, ³Ministerio Salud,
Santiago, Chile, ⁴University of New Mexico, Albuquerque, NM,
United States

2 p.m.

1128

GUAROA VIRUS: AN EMERGENT PATHOGEN AMONG HUMANS IN PERU

Patricia V. Aguilar¹, Cristhopher Cruz¹, Roxana Caceda¹, Carmen Lopez¹, William Mantilla¹, Alfredo Huaman¹, Douglas M. Watts², Carolina Guevara¹, Tadeusz Kochel¹
¹Naval Medical Research Center Detachment, Lima, Peru,
²Center for Biodefense and Emerging Infectious Diseases
University of Texas Medical Branch, Galveston, TX, United
States

2:15 p.m.

1129

HTLV INFECTION IN AMAZONIAN COMMUNITIES IN PERU

Cesar Carcamo¹, Silvia M. Montano², Issac Alva³, Roberto Orellana¹, Marina Chiappe¹, Patricia Garcia¹, Monica Nieto², Tadeusz Kochel², Antonio Bernabe¹, Joseph R. Zunt⁴
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²U.S. Naval Medical Research Center Detachment, Lima, Peru, ³University of Washington National Institutes of Health Fogarty Fellow; Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴University of Washington, Seattle, WA, United States

2:30 p.m.

1130

KNOWLEDGE, ATTITUDES, AND PRACTICES REGARDING LASSA FEVER IN POST-CIVIL WAR SIERRA LEONE

Lina M. Moses¹, Chandra Carter², Kara Wilhite², Augustine Goba³, Sheik Humarr Khan³, Richard Fonnice³, Sidiki Saffa³, Lansana Kanneh³, Victor Lungi³, Willie Robert³, Tiffany D. Imes¹, Hannah Duggan⁴, Joshua Levy⁴, Daniel G. Bausch¹
¹Tulane University Department of Tropical Medicine, New Orleans, LA, United States, ²Xavier University, New Orleans, LA, United States, ³Kenema Government Hospital and Lassa Laboratory, Kenema, Sierra Leone, ⁴Tulane University School of Medicine, New Orleans, LA, United States

2:45 p.m.

1131

UNDERSTANDING BATS ACCESS TO DATE PALM SAP: IDENTIFYING PREVENTATIVE TECHNIQUES FOR NIPAH VIRUS TRANSMISSION

M.S.U. Khan, Nazmun Nahar, Rebeca Sultana, M. Jahangir Hossain, Emily S. Gurley, Stephen P. Luby
International Center for Diarrhoeal Disease Research, Dhaka, Bangladesh

3 p.m.

1132

RIFT VALLEY FEVER VIRUS INFECTION IN AFRICAN BUFFALO (SYNCERUS CAFFER) HERDS IN RURAL SOUTH AFRICA— EVIDENCE OF INTER-EPIZOOTIC TRANSMISSION

A. Desiree LaBeaud¹, Paul C. Cross², Wayne M. Getz³, Charles H. King¹
¹Case Western Reserve University, Cleveland, OH, United States, ²Northern Rocky Mountain Science Center, USGS, Bozeman, MT, United States, ³University of California, Berkeley, CA, United States



Scientific Session 146

Mosquitoes – Biochemistry, Molecular Biology and Molecular Genetics I

Bayside BC

Wednesday, December 10, 1:30 p.m. – 3:15 p.m.

CHAIR

William Black
Colorado State University, Fort Collins, CO, United States

Rollie Clem
Kansas State University, Manhattan, KS, United States

1:30 p.m.

1133

CHARACTERIZATION OF THE CELL DEATH MACHINERY IN *AEDES AEGYPTI*

Qingzhen Liu, **Rollie Clem**
Kansas State University, Manhattan, KS, United States

1:45 p.m.

1134

A ROLE FOR *AEDES AEGYPTI* DNR1 IN REGULATING APOPTOSIS

Casey Devore, John Means, Rollie Clem
Kansas State University, Manhattan, KS, United States

2 p.m.

1135

THE ROLE OF KEY PTEN SPLICE VARIANTS ON REPRODUCTION AND LIFESPAN IN THE MOSQUITO *AEDES AEGYPTI*

Anam Javed, Jessica Brown, Michael A. Riehle
University of Arizona, Tucson, AZ, United States

2:15 p.m.

1136

INSIGHT INTO METABOLIC PATHWAYS INVOLVED IN AMMONIA FIXATION, ASSIMILATION, AND EXCRETION IN *AEDES AEGYPTI* MOSQUITOES

Patricia Y. Scaraffia, Jun Isoe, Vicki H. Wysocki, Roger L. Miesfeld
University of Arizona, Tucson, AZ, United States

2:30 p.m.

1137

MOLECULAR ANALYSIS OF LIGHT PULSE STIMULATED BLOOD FEEDING INHIBITION IN *ANOPHELES GAMBIAE*

Suchismita Das, George Dimopoulos
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

2:45 p.m.

1138

RNA INTERFERENCE (RNAI) OF RIBOSOMAL PROTEIN S3A (RPS3A) SUGGESTS A LINK BETWEEN THIS GENE AND ARRESTED OVARIAN DEVELOPMENT DURING ADULT DIAPAUSE IN *CULEX PIPIENS*

Mijung Kim, David L. Denlinger
The Ohio State University, Columbus, OH, United States

3 p.m.

1139

TRANSCRIPTIONAL EFFECTS OF LONG-TERM BACTERIAL CHALLENGES DURING LARVAL DEVELOPMENT IN MOSQUITO VECTORS OF HUMAN DISEASE

Marco V. Neira Oviedo, Paul J. Linser
The Whitney Laboratory, University of Florida, St. Augustine, FL, United States

Symposium 147

Bridging Pathogenesis and Pathology in Malarial Immunity and Anemia

Supported with funding from The Burroughs Wellcome Fund

Grand Ballroom A

Wednesday, December 10, 1:30 p.m. – 3:15 p.m.

Linking parasite genomics and biology to disease pathologies and vaccines is urgently needed in malaria. This requires understanding the complexities of pathogenic mechanisms, acute and chronic disease pathologies and treatment strategies. This symposium will bring together strategies in the rational selection of malaria antigens for vaccine development, utilization of studies in model systems (murine, non human primates) and human infection and their role in disease pathologies such as anemia.

CHAIR

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

1:30 p.m.

MEROZOITE PARASITE PROTEINS LINKED TO INVASION, ANEMIA AND IMMUNITY

Anthony Holder
National Institute of Medical Research, London, United Kingdom

1:55 p.m.

RODENT MODELS OF IMMUNITY AND ANEMIA

Kasturi Haldar
University of Notre Dame, Notre Dame, United States

2:20 p.m.

HUMAN MALARIAL ANEMIA IN CONTEXT OF HUMAN ANEMIAS IN GENETIC DISORDERS

Mohan Narla
New York Blood Center, New York, NY, United States

Wednesday, December 10

2:45 p.m.

A NON HUMAN PRIMATE MODEL OF MALARIAL ANEMIA

Alberto Moreno
Emory University, Atlanta, GA, United States

Scientific Session 148**Protozoa**

Grand Ballroom B

Wednesday, December 10, 1:30 p.m. – 3:15 p.m.

CHAIR

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

1:30 p.m.

1140

UNDERSTANDING TRANSMISSION OF CRYPTOSPORIDIOSIS IN THE UNITED STATES, 2007: MOLECULAR ANALYSIS OF SPORADIC CRYPTOSPORIDIUM ISOLATES WITH A CASE REPORT OF A HUMAN INFECTION WITH CRYPTOSPORIDIUM HORSE GENOTYPE

Lihua Xiao¹, Michele Hlavsa¹, Jonathan Yoder¹, Christina Ewers², Theresa Dearen¹, Randall Nett³, Stephanie Harris⁴, Sarah Brend⁵, Maghan Harris⁵, Lisa Onischuk², Amy L. Valderrama¹, Shaun Cosgrove⁶, Karen Xiavier⁶, Nancy Hall⁵, Sylvia Romero⁷, Stephen Young⁷, Stephanie P. Johnston¹, Michael Arrowood¹, Sharon Roy¹, Michael J. Beach¹
¹Centers for Disease Control and Prevention, Chamblee, GA, United States, ²New Mexico Department of Health, Santa Fe, NM, United States, ³Idaho Department of Health and Welfare, Boise, ID, United States, ⁴EPA Region 10 Laboratory, Port Orchard, WA, United States, ⁵Iowa Department of Public Health, Des Moines, IA, United States, ⁶Colorado Department of Public Health and Environment, Denver, CO, United States, ⁷Tricore Reference Laboratories, Albuquerque, NM, United States

1:45 p.m.

1141

TEMPOROSPATIAL DETERMINANTS OF CRYPTOSPORIDIOSIS IN UGANDAN CHILDREN

Siobhan M. Mor¹, Elena N. Naumova², James K. Tumwine³, Saul Tzipori¹
¹Tufts Cummings School of Veterinary Medicine, North Grafton, MA, United States, ²Tufts University School of Medicine, Boston, MA, United States, ³Makerere University Medical School, Kampala, Uganda

2 p.m.

1142

SOURCES OF TOXOPLASMA GONDII INFECTION IN THE UNITED STATES

Jeffrey L. Jones¹, Valerie Dargelas², Jacquelin Roberts¹, Cynthia Press², Jack S. Remington³, Jose G. Montoya³
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Palo Alto Medical Foundation Research Institute, Palo Alto, CA, United States, ³Palo Alto Medical Foundation Research Institute and Division of Infectious Diseases, Department of Medicine, Stanford University School of Medicine, Palo Alto and Stanford, CA, United States

2:15 p.m.

1143

URBAN FERAL PIGEONS (COLUMBIA LIVIA) AS A SOURCE FOR AIR-AND-WATERBORNE CONTAMINATION WITH ENTEROCYTOZOOM BIENEUSI SPORES

Thaddeus Graczyk¹, Deirdre Sunderland¹, Ana Rule¹, Alexandre DaSilva², Iaci Moura², Autumn Girouard¹, Kellogg Schwab¹, Patrick Breyse¹
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

2:30 p.m.

1144

REDUCTION OF CEREBRAL INFECTION AND MORTALITY, AND EFFECTS ON TRANSPLENTAL TRANSMISSION OF NEOSPORA CANINUM, UPON IMMUNIZATION OF MICE WITH RECOMBINANT NCROP2 ANTIGEN-BASED VACCINES

Andrew Hemphill, Karim Debache, Ferial Alaeddine, Christophe Guionaud Guionaud
University of Berne, Berne, Switzerland

2:45 p.m.

1145

THIOUREIDES OF 2-(PHENOXYMETHYL) BENZOIC ACID 4-R SUBSTITUTED: A NOVEL CLASS OF ANTI-MICROBIAL AND ANTI-PARASITIC AND ANTIMICROBIAL COMPOUNDS

Andrew Hemphill¹, Carmen Limban², Joachim Müller¹
¹University of Berne, Berne, Switzerland, ²"Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania

3 p.m.

1146

EVALUATION OF THE CYTOTOXICITY OF MULTIPLE AMPHIPATHIC ANTI-MICROBIAL PEPTIDE COMBINATIONS TO POTENTIAL BACTERIAL HOSTS AND TRYPANOSOMA CRUZI

Annabeth Fieck, Ivy Hurwitz, Ravi Durvasula
University of New Mexico, Albuquerque, NM, United States



Symposium 149

Partnerships for the Development of Novel Vector Management Strategies (Part 1)

Grand Ballroom C

Wednesday, December 10, 1:30 p.m. – 3:15 p.m.

There is a pressing need to develop novel approaches for the management of vectors of human diseases such as malaria, dengue, yellow fever and others that are becoming more prevalent in many parts of the world. In response to this need, NIAID funded a series of projects focusing on diverse strategies to combat the vectors of malaria and arboviruses, domestically and abroad. During this symposium, the investigators heading each project will present the results of their work.

CHAIR

Adriana Costero
National Institutes of Health, Bethesda, MD, United States

1:30 p.m.

ENGINEERED RECOMBINANT BACTERIAL LARVICIDES WITH HIGHLY IMPROVED EFFICACY AGAINST MAJOR ANOPHELINE AND CULEX HUMAN DISEASE VECTORS

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

1:55 p.m.

IMPACT OF LARVICIDING ON CLINICAL MALARIA IN THE GAMBIA

Steve W. Lindsay
Durham University, Durham, United Kingdom

2:20 p.m.

ANOPHELES BIOLOGY AND CONTROL IN A RICE ECOSYSTEM: A FIVE-YEAR REVIEW

Robert J. Novak
University of Alabama, Birmingham, Birmingham, AL, United States

2:45 p.m.

MODE OF ACTION OF ITNS ON ANOPHELES: BEHAVIOR INTERACTS WITH LETHALITY

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

Symposium 150

Chagas Disease – *Trypanosoma cruzi* Infection. Women and Children, A Vulnerable Population

Grand Ballroom D

Wednesday, December 10, 1:30 p.m. – 3:15 p.m.

This symposium will address the diagnosis and management of *T. cruzi* infection among children and pregnant women. The focus on this population is based on the fact that a timely diagnosis of Chagas disease in children during the acute and chronic phase or as a result of congenital transmission allows us to prescribe effective treatment against infection. The goal of this symposium is to educate researchers and health care workers about Chagas disease, with a special focus on congenital transmission, which is one of the most important routes of *T. cruzi* transmission in non-endemic countries, primarily in North America.

CHAIR

Pierre Buekens
School of Public Health and Tropical Medicine – Tulane University, New Orleans, LA, United States

James Maguire
Brigham and Women’s Hospital, Boston, MA, United States

1:30 p.m.

PATHOGENY OF CONGENITAL TRANSMISSION OF *TRYPANOSOMA CRUZI*

Yves Carlier
Faculté de Médecine-CP 616, Brussels, Belgium

1:55 p.m.

MANAGEMENT OF PREGNANT WOMEN INFECTED WITH *TRYPANOSOMA CRUZI*

Faustino Torrico
San Simon University, School of Medicine, Cochabamba, Bolivia

2:20 p.m.

TIMELY DIAGNOSIS OF CONGENITAL *TRYPANOSOMA CRUZI* TRANSMISSION. ETIOLOGICAL TREATMENT, POSSIBILITIES AND DIFFICULTIES

Sergio Sosa-Estani
National Center for Research on Endemic Diseases, and Institute for Clinical Effectiveness and Health Policy, Buenos Aires, Argentina

2:45 p.m.

CONGENITAL TRANSMISSION OF *TRYPANOSOMA CRUZI* IN NORTH AMERICA

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

Wednesday, December 10

Scientific Session 151**Intestinal and Tissue Helminths III: Nematodes***Grand Ballroom E***Wednesday, December 10, 1:30 p.m. – 3:15 p.m.****CHAIR**David Abraham
*Thomas Jefferson University, Philadelphia, PA, United States*Mark Eberhard
*Centers for Disease Control and Prevention, Division of Parasitic Diseases, Atlanta, GA, United States***1:30 p.m.****1147****LANDSCAPE GENETICS REVEALS FOCAL TRANSMISSION OF ASCARIS LUMBRICOIDES****Charles D. Criscione**¹, Dan Sudimack², Joel D. Anderson³, Janardan Subedi⁴, Dev R. Rai², Ram P. Upadhayay², Bharat Jha⁵, Kimberly D. Williams⁶, Sarah Williams-Blangero², Timothy J. Anderson²¹*Department of Biology, Texas A&M University, College Station, TX, United States*, ²*Department of Genetics, Southwest Foundation for Biomedical Research, San Antonio, TX, United States*, ³*Perry R. Bass Marine Fisheries Research Station, Coastal Fisheries Division, Texas Parks and Wildlife Department, Palacios, TX, United States*, ⁴*Department of Sociology and Gerontology, Miami University, Oxford, OH, United States*, ⁵*Tribhuvan University Institute of Medicine, Kathmandu, Nepal*, ⁶*Lifespan Health Research Center, Department of Community Health, Boonshoft School of Medicine, Wright State University, Dayton, OH, United States***1:45 p.m.****1148****FACTORS AFFECTING THE FECUNDITY OF ASCARIS LUMBRICOIDES AND THEIR IMPACT ON PATTERNS OF DENSITY DEPENDENCE****Martin Walker**¹, Andrew Hall², Roy M. Anderson¹, Maria-Gloria Basáñez¹¹*Department of Infectious Disease Epidemiology, Imperial College London, London, United Kingdom*, ²*Centre for Public Health Nutrition, University of Westminster, London, United Kingdom***2 p.m.****1149****TEMPORAL DYNAMICS OF THE SEX RATIO OF ASCARIS LUMBRICOIDES AND ITS IMPLICATIONS FOR TRANSMISSION****Martin Walker**¹, Maria-Gloria Basáñez¹, Andrew Hall², Roy M. Anderson¹¹*Department of Infectious Disease Epidemiology, Imperial College London, London, United Kingdom*, ²*Centre for Public Health Nutrition, University of Westminster, London, United Kingdom***2:15 p.m.****1150****EFFECT OF DEWORMING AND INTESTINAL HELMINTH (RE) INFECTIONS ON ATOPY AND ATOPIC DISEASE: LONGITUDINAL ANTHELMINTHIC TREATMENT STUDIES IN CUBAN SCHOOLCHILDREN**Meike Woerdemann¹, Joris Menten¹, Raquel Junco Diaz², Lenina Menocal Heredia², Aniran Ruiz Espinosa³, Bruno Gryseels¹, Mariano Bonet Gorbea², **Katja Polman**¹
¹*Institute of Tropical Medicine, Antwerp, Belgium*, ²*National Institute of Hygiene, Epidemiology and Microbiology, Havana, Cuba*, ³*Institute Pedro Kouri, Havana, Cuba***2:30 p.m.****1151****THE INTERPLAY BETWEEN HUMAN B CELLS, EOSINOPHILS AND HELMINTHS: A NOVEL ASPECT OF THE HYGIENE HYPOTHESIS**Ansu Mammen¹, Francis A. Farraye¹, YanMei Liang¹, William Harnett², Hyunjin Shin¹, Margaret Harnett², Barbara Nikolajczyk¹, **Lisa Ganley-Leal**¹¹*Boston University School of Medicine, Boston, MA, United States*, ²*University of Strathclyde, Strathclyde, United Kingdom***2:45 p.m.****1152****NEUTROPHIL RECRUITMENT TO SOLUBLE EXTRACT FROM STRONGYLOIDES STERCORALIS IS IL-17 INDEPENDENT****David Abraham**, Amy E. O'Connell, Kevin M. Redding
Thomas Jefferson University, Philadelphia, PA, United States

(ACMCIP Abstract)

3 p.m.**1153****DIFFERENTIAL GENE EXPRESSION BETWEEN INFECTIVE AND NON-INFECTIVE STAGE STRONGYLOIDES STERCORALIS LARVAE REVEALED BY MICROARRAY****Roshan Ramanathan**¹, David Abraham², Timothy G. Myers¹, Thomas B. Nutman¹¹*National Institutes of Health, Bethesda, MD, United States*, ²*Thomas Jefferson University, Philadelphia, PA, United States***Break****Wednesday, December 10, 3:15 p.m. — 3:45 p.m.**



Symposium 152

Progress and Challenges in Building an Antimalarial Drug Discovery Portfolio

Gallery

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

Medicines for Malaria Venture (MMV), a product development partnership, is supporting a number of discovery research projects aimed at designing new drugs targeting novel mechanisms for the treatment and prevention of malaria. MMV supports individual research projects and the mini-portfolios of a number of R&D organizations. These exciting projects aim to discover completely new ways of attacking the parasite. The aim of the symposium is to demonstrate how molecular biologists, parasitologists, biophysicists, medicinal chemists and pharmacists work together to seek to achieve their goals through new thinking and cutting-edge technologies. By illustrating how modern genomics, combinatorial chemistry and high throughput screening have revolutionized the process, we aim to push the research agenda to not only discovering novel ways of treating malaria, but ultimately also to developing tools to eradicate it.

CHAIR

Winston Gutteridge
Medicines for Malaria Venture, Geneva, Switzerland
Timothy Wells
Medicines for Malaria Venture, Geneva, Switzerland

3:45 p.m.

CHALLENGES IN DEVELOPING DHODH (DIHYDROOROTATE DEHYDROGENASE) AS AN ANTIMALARIAL DRUG TARGET

Margaret Phillips
University of Texas Southwestern Medical Center, Dallas, TX, United States

4:05 p.m.

MINING A NOVEL LEAD SERIES AND EXPLORING HOW CHEMISTRY CAN ALTER A DRUG'S PROPERTIES

José Garcia-Bustos
GlaxoSmithKline, Tres Cantos, Spain

4:25 p.m.

INVESTIGATING NATURAL PRODUCTS AND LARGE CHEMICAL LIBRARIES VIA HIGH THROUGHPUT SCREENING FOR POTENTIAL ANTIMALARIAL CANDIDATES

Thierry Diagana
Novartis – Institute for Tropical Diseases, Singapore, Singapore

4:45 p.m.

MAXIMIZING THE EXPERTISE AND INFRASTRUCTURE OF A PUBLIC-PRIVATE PARTNERSHIP IN ACCELERATING THE IDENTIFICATION OF ANTIMALARIAL CANDIDATES

Roger Wiegand
The Broad Institute of Harvard and MIT, Cambridge, MA, United States

5:05 p.m.

PANEL DISCUSSION AND CLOSING

Scientific Session 153

Filariasis IV – Epidemiology II

Rhythms I

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

CHAIR

Yaya I. Coulibaly
MRTC, Bamako, Mali

Mwele N. Malecela
National Institute for Medical Research, Dar-es-salaam, United Republic of Tanzania.

3:45 p.m.

1154

ONE STEP FORWARD, TWO STEPS BACK? ASSESSING THE IMPACT OF A MISSED MDA CYCLE IN HAITI

Kimberly Y. Won¹, Madsen Beau de Rochars², Dominique Kyelem³, Sandra J. Laney⁴, Steven A. Williams⁴, Thomas Streit⁵, Patrick J. Lammie¹

¹Centers for Disease Control and Prevention, Division of Parasitic Diseases, Atlanta, GA, United States, ²Hopital Sainte Croix, Leogane, Haiti, ³Task Force for Child Survival and Development, Emory University, Decatur, GA, United States, ⁴Clark Science Center, Department of Biological Sciences, Smith College, Northampton, MA, United States, ⁵Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States

4 p.m.

1155

RATES OF MICROFILARIAL PRODUCTION BY ONCHOCERCA VOLVULUS ARE NOT CUMULATIVELY REDUCED BY MULTIPLE IVERMECTIN TREATMENTS

Christian Bottomley¹, Valerie Isham², Richard C. Collins³, **Maria-Gloria Basañez**⁴

¹Department of Primary Care & Population Sciences, Royal Free Hospital, London, United Kingdom, ²Department of Statistical Science, University College London, London, United Kingdom, ³Sonoita, AZ, United States, ⁴Department of Infectious Disease Epidemiology, Imperial College London, London, United Kingdom

4:15 p.m.

1156

DYNAMICS OF ONCHOCERCA VOLVULUS MICROFILARIAL LOADS OF CAMEROONIAN PATIENTS SUBMITTED TO REPEATED (5 – 23) IVERMECTIN TREATMENTS OVER 14 YEARS (1994 – 2007)

Sebastien D. Pion¹, Hugues Nana-Djeunga², Catherine Bourguinat³, Jacques Cabaret⁴, Claude Charvet⁴, Jacques Gardon⁵, Joseph Kamgno⁶, Flobert Njiokou², Roger Prichard³, Samuel Wanji⁷, Michel Boussinesq¹

¹Institut de recherche pour le Développement, Montpellier, France, ²Université Yaoundé I, Yaoundé, Cameroon, ³Institute of Parasitology, McGill University, Saint Anne de Bellevue, QC, Canada, ⁴Institut National de la Recherche Agronomique, Tours – Nouzilly, France, ⁵Institut de recherche pour le Développement, La Paz, Bolivia, ⁶National Onchocerciasis Task Force, Yaoundé, Cameroon, ⁷Faculté des Sciences, Université de Buéa, Buéa, Cameroon

Wednesday, December 10

4:30 p.m.

1157

PROGRESS TOWARD LYMPHATIC FILARIASIS (LF) ELIMINATION IN PLATEAU AND NASARAWA STATES, NIGERIA: INTEGRATED POPULATION-BASED PREVALENCE SURVEYS AFTER SIX YEARS MASS DRUG ADMINISTRATION

Jonathan D. King¹, Abel Eigege², John Umaru², Nimzing Jip², Emmanuel Miri², Paul Emerson¹, D. Danjuma Goshit³, Gladys G. Ogah⁴, N. Njepuome⁵, Frank Richards¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Jos, Nigeria, ³Plateau State Ministry of Health, Jos, Nigeria, ⁴Nasarawa State Ministry of Health, Lafia, Nigeria, ⁵Nigeria Federal Ministry of Health, Abuja, Nigeria

4:45 p.m.

1158

LONG TERM REDUCTION OF WUCHERERIA BANCROFTI TRANSMISSION IN PAPUA NEW GUINEA AFTER CESSATION OF MASS DRUG ADMINISTRATION

Moses J. Bockarie¹, Melinda Susapu², Steven Panui², Henry Dagoro², Daniel Tisch¹, Thomas Adiguma², William Kastens¹, Peter A. Zimmerman¹, Peter Siba³, James W. Kazura¹

¹Case Western Reserve University, Cleveland, OH, United States, ²PNG Institute of Medical Research, Madang, Papua New Guinea, ³PNG Institute of Medical Research, Goroka, Papua New Guinea

5 p.m.

1159

PROGRESS TOWARDS ELIMINATION OF ONCHOCERCIASIS AS PUBLIC HEALTH PROBLEM IN PROBLEMATIC AREAS IN WEST AFRICA

Wilma A. Stolk¹, Sake J. de Vlas¹, Laurent Yaméogo², J. Dik Habbema¹

¹Erasmus Medical Center, Rotterdam, Netherlands, ²African Program for Onchocerciasis Control, Ouagadougou, Burkina Faso

5:15 p.m.

1160

ONCHOCERCIASIS ELIMINATION IN AFRICA: THE POSSIBILITY OF SUCCESS IN AN ISOLATED FOCUS IN SUDAN

Tong Chor¹, **Charles Mackenzie**², Mahdi Shamad¹, Alia Bilal¹, Kamal Hashim¹, Moses Katarbarwa³, Frank Richards³

¹Ministry of Health, Khartoum, Sudan, ²Michigan State University, East Lansing, MI, United States, ³The Carter Center, Atlanta, GA, United States

Symposium 154

Dengue in International Travelers

*Rhythms III/III***Wednesday, December 10, 3:45 p.m. – 5:30 p.m.**

Dengue virus infection is increasingly recognized as one of the world's major emerging infectious diseases. Dengue is endemic in most tropical and subtropical countries, many of which are popular tourist destinations. International travelers have the potential both to acquire and to spread dengue virus infection. It is paramount that health care providers have an understanding of the epidemiology and risk, clinical spectrum, diagnosis, management and prevention of dengue in travelers.

CHAIR

Annelies Wilder-Smith

National University of Singapore, Singapore, Singapore

David O. Freedman

University of Alabama Birmingham, Birmingham, AL, United States

3:45 p.m.

EPIDEMIOLOGY OF DENGUE INFECTIONS: REASONS FOR EXPANSION

Duane Gubler

Asia-Pacific Institute of Tropical Medicine and Infectious Disease, Honolulu, HI, United States

4:10 p.m.

EPIDEMIOLOGY AND PREVENTION OF DENGUE IN INTERNATIONAL TRAVELERS

Annelies Wilder-Smith

National University of Singapore, Singapore, Singapore

4:35 p.m.

MANAGEMENT OF DENGUE IN RETURNING TRAVELERS

Paul A. Tambyah

National University of Singapore, Singapore, Singapore

5 p.m.

DENGUE VACCINES: IS THERE HOPE FOR TRAVELERS?

Bill Letson

International Vaccine Institute, Seoul, Republic of Korea



Symposium 155

Heterogeneity in West Nile Virus Transmission

Waterbury

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

West Nile virus (WNV) spread across North and Central America in less than five years with the unprecedented consequence of establishing endemic transmission cycles in diverse ecosystems and biomes, dramatically altering the risk of arbovirus transmission to humans and wildlife. Unlike the closely related St. Louis encephalitis virus, native to the Americas, WNV is able to overwinter in temperate areas, generate intense avian epizootics with high mosquito infection rates (10-20 percent), and “spills over” to numerous urban mammals. The temporal and geographic variability in incidence of human cases in the United States supports the hypotheses that regional biotic and abiotic factors regulate the intensity of WNV transmission. This symposium addresses mechanisms that govern the observed heterogeneity, particularly host and vector abundance, composition, and competency; vector infection rates and host viremia; and vector feeding pattern on reservoir and incidental hosts. Roger Nasci (co-chair) briefly summarizes the regional differences in human incidence of WNV in the United States. John Anderson explores the enzootic and epizootic nature of West Nile virus transmission in the northeastern United States. Harry Savage reports on the vector competency and host-seeking patterns in the *Culex pipiens* complex within a hybrid zone (Memphis, Tenn.). Marm Kilpatrick reviews West Nile virus risk assessment and important vectors in Colorado and the mid-Atlantic. Bill Reisen discusses the factors associated with transmission of West Nile virus across diverse landscapes in California. Richard Lampman summarizes the various perspectives of how host and vector heterogeneity impacts transmission cycles. These talks provide a forum where ASTMH members can address the wide range of ecological hypotheses presented in the recent literature on the topic of WNV epidemiology.

CHAIR

Roger S. Nasci
Centers for Disease Control and Prevention, Fort Collins, CO, United States

3:45 p.m.

INTRODUCTION: SPATIAL AND TEMPORAL HETEROGENEITY IN HUMAN CASES OF WEST NILE VIRUS IN THE UNITED STATES

Roger S. Nasci
Centers for Disease Control and Prevention, Fort Collins, CO, United States

3:55 p.m.

EPIZOOTIOLOGY OF WEST NILE VIRUS IN THE NORTHEASTERN U.S. (CONNECTICUT)

John Anderson
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

4:15 p.m.

VECTOR COMPETENCY AND HOST-SEEKING PATTERNS IN THE CULEX PIPIENS COMPLEX WITHIN A HYBRID ZONE (MEMPHIS, TENNESSEE)

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

4:35 p.m.

WEST NILE VIRUS RISK ASSESSMENT AND IMPORTANT VECTORS IN COLORADO AND THE MID-ATLANTIC

A. Marm Kilpatrick
University of California, Santa Cruz, CA, United States

4:55 p.m.

FACTORS ENABLING THE TRANSMISSION OF WEST NILE VIRUS ACROSS THE DIVERSE LANDSCAPES OF CALIFORNIA

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

5:15 p.m.

SUMMARY: REVIEW OF THE ENVIRONMENTAL MECHANISMS GOVERNING THE INTENSITY OF WEST NILE VIRUS TRANSMISSION

Richard L. Lampman
Illinois Natural History Survey, Champaign, IL, United States

Symposium 156

Adaptive Strategies of *Yersinia pestis* to Persist during Epizootic and Interepizootic Periods

Napoleon A123

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

For the survival and persistence of *Yersinia pestis* in nature, this pathogen faces diverse challenges. It must colonize and productively infect two very different host environments, that of the flea vector and the vertebrate host. In addition, this transmission cycle must be maintained during both epizootic and inter-epizootic periods for long term maintenance of *Yersinia pestis*. This symposium will review different aspects of the adaptations of *Yersinia pestis* to the vector-borne lifestyle, both at the organismal level and at the epidemiological landscape level.

CHAIR

Christopher F. Bosio
Rocky Mountain Laboratories, National Institutes of Health, Hamilton, MT, United States

Rebecca J. Eisen
Centers for Disease Control and Prevention, Fort Collins, CO, United States

3:45 p.m.

SURVIVAL OF *YERSINIA PESTIS* IN HOST CELLS

James B. Bliska
State University of New York, Stony Brook, Stony Brook, NY, United States

4:10 p.m.

INTERACTIONS OF *YERSINIA PESTIS* WITH ITS FLEA VECTOR THAT UNDERLIE STABLE PLAGUE TRANSMISSION CYCLES

B. Joseph Hinnebusch
Rocky Mountain Laboratories, National Institutes of Health, Hamilton, MT, United States

4:35 p.m.

EVOLUTIONARY HISTORY OF *YERSINIA PESTIS* IN NORTH AMERICA

David Wagner
Northern Arizona University, Flagstaff, AZ, United States

Wednesday, December 10

5 p.m.**THE EPIDEMIOLOGICAL IMPLICATIONS OF RECENT ADVANCES IN PLAGUE ECOLOGY**

Kenneth L. Gage
Centers for Disease Control and Prevention, Fort Collins, CO,
United States

Symposium 157**Stopping Vector-Borne Diseases at the Bite: Recent Progress in Anti-Vector and Transmission-Blocking Vaccines and Drugs**

Maurepas

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

Exciting new discoveries and control strategies have recently emerged that are moving anti-vector and transmission-blocking research forward. Both research avenues aim to prevent community-transmission of vector-borne diseases by inducing host blood components to target vector survival and/or vector-pathogen interactions. Recent mathematical models confirm the power that this approach can have on stemming certain vector-borne diseases. Even more importantly, modern molecular, genetic, and immunological assays are being applied in vector-pathogen systems to discover and test novel molecular targets in a variety of different vectors (including ticks, mosquitoes, and sandflies). This symposium will highlight these recent advancements and will help to bring together those in diverse vector-pathogen systems to share their experiences in this research.

CHAIR

Brian D. Foy
Colorado State University, Fort Collins, CO, United States

Peter Billingsley
Sanaria Inc., Rockville, MD, United States

3:45 p.m.**RECENT PROGRESS IN IDENTIFYING NOVEL ACARICIDAL AND TRANSMISSION-BLOCKING TARGETS IN TICKS**

Katherine M. Kocan
Oklahoma State University, Stillwater, OK, United States

4:10 p.m.**ENDECTOCIDES AND MOSQUITO ANTIGENS THAT HIGHLIGHT THE POSSIBILITY OF CONTROLLING MALARIA AND ARBOVIRUSES THROUGH MOSQUITOCIDAL APPROACHES**

Brian D. Foy
Colorado State University, Fort Collins, CO, United States

4:35 p.m.**DISCOVERY OF MALARIA PARASITE RECEPTORS IN MOSQUITO MIDGUTS THAT COULD BE TARGETED BY TRANSMISSION-BLOCKING VACCINES**

Rhoel R. Dinglasan
Johns Hopkins University Bloomberg School of Public Health,
Baltimore, MD, United States

5 p.m.**DISCOVERY OF LEISHMANIA PARASITE-SANDFLY INTERACTION TARGETS FOR TRANSMISSION-BLOCKING AND/OR SANDFLY-KILLING VACCINES**

Jesus G. Valenzuela
National Institute of Allergy and Infectious Disease, National
Institutes of Health, Bethesda, MD, United States

Scientific Session 158**Viruses II**

Bayside A

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

CHAIR

Kevin Myles
Virginia Tech, Blacksburg, VA, United States

Jorge E. Osorio
University of Wisconsin, Madison, WI, United States

3:45 p.m.

1161

VISUALIZATION OF MONKEYPOX VIRUS PATHOGENESIS BY *IN VIVO* IMAGING

Jorge E. Osorio¹, Keith P. Iams¹, Carol Meteyer², Nicola Pussini², Elizabeth Falendyz¹, Angela Londono-Navas¹, Tonie E. Roche²

¹University of Wisconsin, Madison, WI, United States, ²USGS-National Wildlife Health Center, Madison, WI, United States

4 p.m.

1162

IDENTIFICATION AND RELATIVE ABUNDANCE OF SMALL RNAS IN ALPHAVIRUS INFECTED MOSQUITOES

Elaine M. Morazzani, Zach N. Adelman, Kevin M. Myles
Virginia Tech, Blacksburg, VA, United States

4:15 p.m.

1163

ALPHAVIRUS DERIVED SMALL RNAS MODULATE PATHOGENESIS IN DISEASE VECTOR MOSQUITOES

Kevin M. Myles, Michael R. Wiley, Elaine M. Morazzani, Zach N. Adelman
Virginia Tech, Blacksburg, VA, United States

4:30 p.m.

1164

TEMPORAL PATTERNS OF ROTAVIRUS GENOTYPE VARIATION IN RURAL, NORTHERN ECUADOR

Owen D. Solberg¹, Maria Eloisa Hasing², Gabriel Trueba², Joseph N. Eisenberg³

¹University of California Berkeley, Berkeley, CA, United States, ²Universidad San Francisco de Quito, Quito, Ecuador, ³University of Michigan, Ann Arbor, MI, United States

4:45 p.m.

1165

MOLECULAR EVOLUTION OF CHIKUNGUNYA VIRUS IN WEST AFRICA AND EPIDEMIOLOGICAL IMPLICATIONSCheikh O. Diene¹, Ousmane Faye¹, Paolo M. Zanutto², Ngor Faye³, Mawlouth Diallo¹, **Amadou A. Sall**¹¹Institut Pasteur Dakar, Dakar, Senegal, ²University of Sao Paulo, Sao Paulo, Brazil, ³University Cheikh Anta Diop, Dakar, Senegal

5 p.m.

1166

DOUBLE INTRODUCTION OF HIGHLY PATHOGENIC AVIAN INFLUENZA H5N1 IN GHANA IN 2007**Magdi D. Saad**¹, William Ampofo², Greogry Raczniaik¹, Marshall Monteville³, Buhari A. Oyofa¹, Jeffrey A. Tjaden¹¹U.S. Naval Medical Research Unit No. 3, Cairo, Egypt, ²Noguchi Memorial Institute of Medical Research, Accra, Ghana, ³Naval Environmental Health Center (NEHC), Portsmouth, VA, United States

5:15 p.m.

1167

CASE FATALITY OF SEVERE ACUTE RESPIRATORY SYNDROME (SARS) IN MAINLAND CHINA AND ASSOCIATED RISK FACTORS**Sake J. de Vlas**¹, Na Jia², Dan Feng², Jan Hendrik Richardus¹, Wu-Chun Cao²¹Erasmus MC, Rotterdam, Netherlands, ²Beijing Institute of Microbiology and Epidemiology, Beijing, China**Scientific Session 159****Mosquitoes – Biochemistry, Molecular Biology and Molecular Genetics II**

Bayside BC

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

CHAIRCarlo Costantini
IRD/OCEAC, Yaounde, CameroonAlessandra della Torre
Univerity of Rome, Rome, Italy

3:45 p.m.

1168

HIGH HYBRIDIZATION RATE BETWEEN ANOPHELES GAMBIAE MOLECULAR FORMS AT THE WESTERN EXTREME OF THEIR RANGE HIGHLIGHTS POSSIBLE GENE-FLOW IN THE X-CHROMOSOME "SPECIATION ISLAND"**Alessandra Della Torre**¹, Federica Santolamazza¹, Beniamino Caputo¹, Emiliano Mancini¹, Katinka Palssson², Davis Nwakanama³, Musa Jawara³, David Conway³, Zhijian Tu⁴, Vincenzo Petrarca⁵, Joao Pinto⁶¹Dip. Scienze di Sanità Pubblica, Università Sapienza, Rome, Italy, ²Department of Systematic Zoology, Evolutionary Biology Center, Uppsala University, Norbyvägen, Sweden, ³Medical Research Council, Fajara, Gambia, ⁴Department of Biochemistry, Virginia Polytechnic Institute and State University of Blacksburg, Blacksburg, VA, United States, ⁵Dip. Genetica e Biologia Molecolare, Università Sapienza, Rome, Italy, ⁶Centro de Malaria e outras Doenças Tropicais, Instituto de Higiene e Medicina Tropical, Universidade Nova de Lisboa, Lisbon, Portugal

4 p.m.

1169

ECOLOGICAL DIVERGENCE AND REPRODUCTIVE ISOLATION ALONG AN URBANIZATION GRADIENT: HABITAT SEGREGATION OF ANOPHELES GAMBIAE MOLECULAR FORMS IN A FOREST AREA OF CAMEROONColince Kamdem¹, **Carlo Costantini**¹, Joachim Etouna¹, Diego Ayala², Jean-Pierre Agbor¹, Christophe Antonio-Nkondjio¹, Didier Fontenille², Nora J. Besansky³, Frederic Simard⁴¹Institut de Recherche pour le Developpement (IRD)/Organisation de Coordination pour la lutte contre les grandes Endemies en Afrique Centrale (OCEAC), Yaounde, Cameroon, ²Institut de Recherche pour le Developpement (IRD), Montpellier, France, ³Eck Family Center for Global Health and Infectious Diseases, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States, ⁴Institut de Recherche pour le Developpement (IRD)/Institut de Recherche en Sciences de la Sante (IRSS), Bobo-Dioulasso, Burkina Faso

4:15 p.m.

1170

A TEP1 MEDIATED RESPONSE IS REQUIRED BUT NOT SUFFICIENT FOR MELANIZATION OF PLASMODIUM FALCIPARUM IN THE ANOPHELES GAMBIAE MIDGUT**Alvaro Molina-Cruz**¹, Corrie Ortega², Randall DeJong², Janneth Rodrigues², Giovanna Jaramillo-Gutierrez², Ekua Abban², Carolina Barillas-Mury²¹National Institutes of Health, Bethesda, MD, United States, ²National Institutes of Health, Rockville, MD, United States

4:30 p.m.

1171

LARVAL ANOPHELINE MOSQUITO RECTA EXHIBIT A
DRAMATIC CHANGE IN ION TRANSPORT PROTEINS IN
RESPONSE TO SHIFTING SALINITY

Kristin E. Smith¹, Leslie A. VanEkeris¹, William R. Harvey¹,
Peter J. Smith², Paul J. Linsler¹

¹University of Florida, Saint Augustine, FL, United States,
²BioCurrents Research Center, Program in Molecular Physiology,
Marine Biological Center, Woods Hole, MA, United States

4:45 p.m.

1172

FUNCTIONAL CHARACTERIZATION OF A PLATELET
AGGREGATION INHIBITOR FROM THE SALIVARY GLANDS OF
Aedes Aegypti

Saravanan Thangamani¹, Venkata D. Boppana¹, Francisco
Alarcon-Chaidez¹, Jianxin Sun², José M.C. Ribeiro³, Stephen K.
Wikel¹

¹University of Connecticut Health Center, Farmington, CT;
Current address: Department of Pathology, University of Texas
Medical Branch, Galveston, TX, United States, ²University of
Connecticut Health Center, Farmington, CT, United States,
³Laboratory of Malaria and Vector Research, National Institute
of Allergy and Infectious Diseases, National Institutes of Health,
Rockville, MD, United States

(ACMCIP Abstract)

5 p.m.

1173

SURVIVAL AND REPLICATION OF *Wolbachia pipientis* IN
Anopheles gambiae

Chaoyang Jin

Johns Hopkins Malaria Research Institute, Baltimore, MD, United
States

(ACMCIP Abstract)

5:15 p.m.

1174

THE ROLE OF SERPINS IN MELANIZATION AND TOLL IMMUNE
PATHWAY IN THE MOSQUITO, *Aedes Aegypti*

Zhen Zou, Sang Woon Shin, Alexander S. Raikhel
University of California Riverside, Riverside, CA, United States

(ACMCIP Abstract)

Symposium 160

Update from the Intermittent Preventive
Treatment in Infants (IPTi) Consortium:
Community Effectiveness, Status of Policy
Recommendations and Future Directions

Grand Ballroom A

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

The symposium will provide an update on the progress of the IPTi Consortium. Information will be presented regarding the community effectiveness of IPTi with sulfadoxine-pyrimethamine in Tanzania. The findings of the Institute of Medicine (IOM) review of IPTi will be presented. The status of the policy review process at WHO will be reviewed, and the future of IPT as a malaria control strategy (in both infants and children) will be discussed. The history of the IPTi Consortium will be discussed as a model for quickly generating evidence for public health interventions.

CHAIR

Robert D. Newman
Centers for Disease Control and Prevention, Atlanta, GA, United
States

Pedro Alonso
Barcelona Center for International Health Research, Barcelona,
Spain

3:45 p.m.

LESSONS LEARNED FROM PILOT IPTI IMPLEMENTATION IN
SOUTHERN TANZANIA

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

4 p.m.

REPORT FROM THE INSTITUTE OF MEDICINE (IOM) REVIEW OF
IPTI WITH SP

Myron M. Levine
University of Maryland School of Medicine Center for Vaccine
Research, Baltimore, MD, United States

4:15 p.m.

IPT AS A PREVENTION STRATEGY FOR INFANTS AND
CHILDREN: WHERE DO WE GO FROM HERE?

Robert D. Newman
Centers for Disease Control and Prevention, Atlanta, GA, United
States

4:30 p.m.

THE IPTI CONSORTIUM – A MODEL FOR ACCELERATING
PROGRAMMATICALLY RELEVANT SCIENCE

Pedro Alonso
Barcelona Center for International Health Research, Barcelona,
Spain

4:45 p.m.

PANEL DISCUSSION



Symposium 161

New Insights on Predictors of Cerebral Malaria Severity

Grand Ballroom B

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

Plasmodium falciparum can cause a diffuse encephalopathy known as cerebral malaria (CM), a major contributor to malaria associated mortality. Despite treatment, mortality due to CM can be as high as 30 percent, while 10 percent of survivors of the disease may experience short- and long-term neurological complications. The pathogenesis of CM and other forms of severe malaria is multi-factorial and involve cytokine and chemokine homeostasis, inflammation and vascular injury/repair. Identification of prognostic markers that can predict CM severity is urgently needed to enable development of better intervention. This symposium will provide insights and updates on recent findings that identify factors mediating CM that may have utility in accurately predicting risk and management of CM.

CHAIR

Jonathan K. Stiles
Morehouse School of Medicine, Atlanta, GA, United States

3:45 p.m.

NEW INSIGHTS ON CEREBRAL MALARIA MANAGEMENT (CLINICAL OBSERVATIONS)

Charles Newton
KEMRI/Wellcome Trust Collaborative Programme, Kilifi, Kenya

4:10 p.m.

COGNITIVE IMPAIRMENT AFTER CEREBRAL MALARIA IN CHILDREN

Chandy C. John
University of Minnesota, Minneapolis, MN, United States

4:35 p.m.

CEREBROSPINAL FLUID AND SERUM BIOMARKERS OF CEREBRAL MALARIA MORTALITY (SURVEY OF INDIAN AND AFRICAN PATIENTS)

Jonathan K. Stiles
Morehouse School of Medicine, Atlanta, GA, United States

5 p.m.

CHEMOKINE RECEPTOR CXCR3 AND ITS LIGANDS CXCL9 AND CXCL10 IN CEREBRAL MALARIA DEVELOPMENT (MURINE FUNCTIONAL STUDIES)

Andrew Luster
Massachusetts General Hospital, Charlestown, MA, United States

Symposium 162

Partnerships for the Development of Novel Vector Management Strategies (Part 2)

Grand Ballroom C

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

There is a pressing need to develop novel approaches for the management of vectors of human diseases such as malaria, dengue, yellow fever and others, which are becoming more prevalent in many parts of the world. In response to this need, NIAID funded a series of projects focusing on diverse strategies to combat the vectors of malaria and Arboviruses, both domestically and abroad. During this symposium, the investigators heading each project will present the results of their work.

CHAIR

Adriana Costero
National Institutes of Health, Bethesda, MD, United States

3:45 p.m.

PROGRESS TOWARD DEVELOPMENT OF AN ATTRACTANT-BAITED LETHAL OVITRAP FOR Aedes aegypti CONTROL

Dawn M. Wesson
Tulane University, New Orleans, LA, United States

4:10 p.m.

CONTROL OF URBAN AND PERI-URBAN Culex Mosquitoes

Gregory C. Lanzaro
University of California, Davis, CA, United States

4:35 p.m.

MOLECULAR AND GENETIC BASIS OF PYRETHROID RESISTANCE IN Anopheles funestus, Major Malaria Vector in Africa

Charles S. Wondji
Liverpool School of Tropical Medicine, Liverpool, United Kingdom

5 p.m.

BEHAVIOR MODIFYING COMPOUNDS FOR DISEASE VECTOR CONTROL

John P. Grieco
Uniformed Services University, Bethesda, MD, United States

Wednesday, December 10

Symposium 163

Chagas Disease in the U.S.: How Much is Autochthonous?

Grand Ballroom D

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

This symposium will describe the history and current knowledge of the epidemiology of the parasite *Trypanosoma cruzi* in the U.S., including the vector-reservoir host cycle and human epidemiology. New information on autochthonous transmission in people and the current distribution of all human infections will be presented. One presentation will describe the experiences of the Chagas disease clinical center of excellence in Los Angeles.

CHAIR

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

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

3:45 p.m.

OVERVIEW OF EPIDEMIOLOGY AND ECOLOGY OF *TRYPANOSOMA CRUZI* IN THE U.S., INCLUDING VECTORS AND RESERVOIRS

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

4:15 p.m.

TRYPANOSOMA CRUZI STRAIN DIFFERENCES FROM U.S. ISOLATES

Michael Yabsley
University of Georgia, Athens, GA, United States

4:30 p.m.

AUTOCHTHONOUS RISK OF CHAGAS DISEASE IN THE U.S.; BLOOD DONOR SCREENING AND IMMIGRANT INFECTIONS

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

5:30 p.m.

MEDICAL AND CLINICAL ASPECTS OF CHAGAS DISEASE IN AN AREA OF RELATIVELY HIGH PREVALENCE IN THE U.S.

Sheba Meymandi
David Geffen School of Medicine at UCLA, Sylmar, CA, United States

Scientific Session 164

Intestinal and Tissue Helminths IV

Grand Ballroom E

Wednesday, December 10, 3:45 p.m. – 5:30 p.m.

CHAIR

Raffi V. Aroian
University of California San Diego, La Jolla, CA, United States

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

3:45 p.m.

1175

CLINICAL DEVELOPMENT OF THE NA-ASP-2 HOOKWORM VACCINE IN PREVIOUSLY-INFECTED BRAZILIAN ADULTS

David J. Diemert¹, Jeffrey M. Bethony², Antonio G. Pinto³, Janaine Freire³, Helton Santiago², Rodrigo Correa-Oliveira³, Peter J. Hotez²
¹Sabin Vaccine Institute, Washington, DC, United States, ²George Washington University, Washington, DC, United States, ³Centro de Pesquisas Rene Rachou – FIOCRUZ, Belo Horizonte, Brazil

4 p.m.

1176

DEVELOPMENT OF A REAL-TIME PCR ASSAY FOR SPECIFIC DETECTION OF *ANGIOSTRONGYLUS CANTONENSIS* IN CLINICAL AND ENVIRONMENTAL SAMPLES

Ana Cristina A. da Silva¹, Yvonne Qvarnstrom², Henry S. Bishop², Carlos Graeff-Teixeira¹, Alexandre J. da Silva²
¹PUCRS, Porto Alegre, Brazil, ²Centers for Disease Control and Prevention, Division of Parasitic Diseases, NCZVED, Atlanta, GA, United States

(ACMCIP Abstract)

4:15 p.m.

1177

CRYSTAL PROTEINS AS A NEW CLASS OF ANTHELMINTICS

Raffi V. Aroian¹, Edward G. Platzer², Yan Hu¹, Chang-Shi Chen¹
¹University of California San Diego, La Jolla, CA, United States, ²Univ Cal Riverside, Riverside, CA, United States

4:30 p.m.

1178

STUDIES OF TRIBENDIMIDINE MECHANISM OF ACTION AND RESISTANCE IN *CAENORHABDITIS ELEGANS*

Yan Hu¹, Ray Assaf¹, Emily Manalastas¹, Li Chen¹, Shuhua Xiao², Raffi V. Aroian¹
¹University of California, San Diego, La Jolla, CA, United States, ²National Institute of Parasitic Diseases, Chinese Center for Disease Control, Shanghai, China

4:45 p.m.

1179

IMPACT OF INTESTINAL PARASITIC INFECTIONS ON VITAMIN A STATUS AMONG ABORIGINAL SCHOOLCHILDREN IN RURAL PENINSULAR MALAYSIA

Hesham M. Al-Mekhlafi¹, Johari Surin¹, Atiya Sallam¹, Ariffin Abdullah¹, Mohammed Mahdy¹, Che Abdullah Hasan²
¹University of Malaya, Kuala Lumpur, Malaysia, ²Ministry of Health, Putrajaya, Malaysia



5 p.m.

1180

HOW DO MASS CAMPAIGNS AFFECT DISTRICT HEALTH SERVICES? THE CASE OF A NATIONAL CAMPAIGN FOR NEGLECTED TROPICAL DISEASES IN MALI

Anna Cavalli, Katja Polman, Marjan Pirard, Marleen Boelaert, Monique Van Dormael
Institute of Tropical Medicine, Antwerp, Belgium

5:15 p.m.

1181

PREVALENCE OF SOIL-TRANSMITTED HELMINTHS IN 50 RICE FARMING VILLAGES OF THE SAMAR PROVINCE OF THE PHILIPPINES

Mushfiqur R. Tarafder¹, Hélène Carabin¹, Ernesto Balolong Jr.², Remigio Olveda², Veronica Tallo², Stephen T. McGarvey³
¹College of Public Health, University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, ²Research Institute for Tropical Medicine, Muntinlupa City, Philippines, ³International Health Institute, Brown University, Providence, RI, United States

Plenary Session 165

Plenary Session IV: Presidential Address and ASTMH Annual Business Meeting

Grand Ballroom C

Wednesday, December 10, 6 p.m. – 7:30 p.m.

ASTMH presidential address and annual business meeting.

CHAIR

George Hillyer
University of Puerto Rico School of Medicine, San Juan, PR, United States

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

6 p.m.

INTRODUCTION

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

6:15 p.m.

MINDSHARE: WHAT THE HECK IS IT? WHY DO WE NEED IT? HOW DO WE GET IT?

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

6:45 p.m.

ASTMH ANNUAL BUSINESS MEETING

George Hillyer
University of Puerto Rico School of Medicine, San Juan, PR, United States

Poster Session C Dismantle

Armstrong Ballroom

Wednesday, December 10, 7 p.m. – 8 p.m.

Thursday, December 11

Registration

Napoleon Ballroom

Thursday, December 11, 7 a.m. – 10:30 a.m.

Cyber Cafe

Lagniappe

Thursday, December 11, 7 a.m. – 10:30 a.m.

Speaker Ready Room

Nottoway

Thursday, December 11, 7 a.m. – Noon

ASTMH Council Meeting

Grand Couteau

Thursday, December 11, 7:30 a.m. – 9:30 a.m.

Press Room

Ellendale/Evergreen

Thursday, December 11, 8 a.m. – Noon

Symposium 166

Latin America: Confronting Dengue in the XXI Century

Gallery

Thursday, December 11, 8 a.m. – 9:45 a.m.

Dengue is among the fastest expanding urban infectious diseases of the present time, with no vaccine, no therapeutic available and overall lack of understanding of its severe outcome from the point of view of its molecular basis. This situation requires bridging expertise from large areas of knowledge, including geography, epidemiology, public health, entomology, immunology, vaccinology, genomics, and structure and molecular biology, to try to solve this urgent health problem. Among the affected dengue areas of the world, Latin America has a complex political, social and health situation that may aggravate disease outcome. Due to the large-scale and impact of dengue in the region, urgent measures are required in areas of basic research and applied sciences. Particularly, in clinical research, there is a need to redefine dengue fever as hemorrhagic fever syndrome, evaluate immune evasion mechanisms, propose new therapeutics, study neutralizing antibody responses in the light of new data on viral genome variations, etc. This session will exhibit the reality of dengue research in Latin America in order to project future interventions. In the light of this discussion, worldwide organizations need to move forward as axes of knowledge-gatherers, and most importantly, as action generators in this region. Five experts in the field speak about first-hand experiences and present results from their clinical studies.

CHAIR

Jorge L Munoz-Jordan
Centers For Disease Control and Prevention, San Juan, Puerto Rico

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

Jorge Muñoz-Jordán
Center for Disease Control and Prevention, San Juan, PR, United States

Thursday, December 11

8 a.m.**INTRODUCTION**

Jorge Muñoz-Jordán
Center for Disease Control and Prevention, San Juan, PR, United States

8:10 a.m.**DENGUE, CHALLENGES OF TODAY AND TOMORROW**

Duane J. Gubler
University of Hawai'i at Manoa, Honolulu, HI, United States

8:30 a.m.**DENGUE IN BRAZIL**

Pedro Vasconcelos
Instituto Evandro Chagas, Ministry of Health, Belém, Para, Brazil

8:50 a.m.**CLINICAL STUDIES OF DENGUE IN VENEZUELA**

Norma de Bosch
Banco de Sagre de Caracas, Caracas, Venezuela

9:10 a.m.**PEDIATRIC DENGUE VACCINE INITIATIVE IN THE AMERICAS**

Harold S. Margolis
Pediatric Dengue Vaccine Initiative, Seoul, Republic of Korea

Symposium 167**Nipah and Hendra Viruses: Transmission, Pathogenesis, and Treatment**

Waterbury

Thursday, December 11, 8 a.m. – 9:45 a.m.

Over the last decade, several new zoonotic paramyxoviruses have emerged from fruit bats to cause serious disease outbreaks in man and livestock. Hendra virus was the cause of fatal infections of horses and man in Australia in 1994, 1999 and 2004. Nipah virus infection was first reported in peninsular Malaysia and Singapore in 1998-1999 when it caused an outbreak of severe respiratory disease in pigs and fatal encephalitis in humans with high mortality rates (~ 40 percent). Spillover events of human Nipah infection have continued in this region, with outbreaks sporadically occurring in Bangladesh and West Bengal, India. The outbreaks in Bangladesh were associated with a higher incidence of acute respiratory distress syndrome in conjunction with encephalitis, person-to-person transmission, and appeared to be associated with higher case fatality rates (~75 percent) than the original Malaysian outbreak. Because of their genetic constitution, virulence and wide host range, these viruses have been given Biosafety Level 4 status in a new genus Henipavirus within the family Paramyxoviridae. This symposium will cover the current knowledge of Hendra and Nipah virus ecology and epidemiology, with an emphasis on the role of fruit bats as a reservoir and the potential importance of person-to-person transmission in fueling outbreaks. Speakers will also present new findings on the mechanisms of henipavirus pathogenesis and discuss newly developed animal models and candidate treatment modalities.

CHAIR

Thomas Geisbert
National Emerging Infectious Diseases Laboratories Institute, Boston, MA, United States

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

8 a.m.**ECOLOGY AND EMERGENCE OF HENIPAVIRUSES**

Jonathan Epstein
The Consortium for Conservation Medicine, New York, NY, United States

8:25 a.m.**PATHOLOGY AND PATHOGENESIS OF NIPAH VIRUS INFECTION**

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

8:50 a.m.**NIPAH AND HENDRA VIRUS RECEPTOR BINDING AND ENTRY**

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

9:15 a.m.**PASSIVE PROTECTION IN A NONHUMAN PRIMATE MODEL OF NIPAH VIRUS**

Thomas Geisbert
National Emerging Infectious Diseases Laboratories Institute, Boston, MA, United States

Scientific Session 168**Malaria – Biology and Pathogenesis I**

Napoleon A123

Thursday, December 11, 8 a.m. – 9:45 a.m.

CHAIR

Fiona E. Lovegrove
University of Toronto, Toronto, ON, Canada

Demba Sarr
Pasteur Institute of Dakar, Dakar, Senegal

8 a.m.

1182

NITRIC OXIDE DEPLETION AND ENDOTHELIAL DYSFUNCTION IN CHILDREN WITH MALARIA AND MARKED ANEMIA

Jacqueline Janka¹, Ousmane A. Koita², Maya Josepha², Broulayé Traoré³, Fawaz Mzayek⁴, Lansana Sangare², Ousmane Cissé², Laurel Mendelsohn¹, Xunde Wang¹, Henry Masur¹, Mark Gladwin¹, Donald J. Krogstad⁴
¹National Institutes of Health, Bethesda, MD, United States, ²University of Bamako, Bamako, Mali, ³Hôpital Gabriel Touré, Bamako, Mali, ⁴Tulane University, New Orleans, LA, United States



8:15 a.m.

1183

ANGIOPOIETIN-2, AN AUTOCRINE MEDIATOR OF ENDOTHELIAL ACTIVATION IS ASSOCIATED WITH PARASITE BIOMASS, ENDOTHELIAL DYSFUNCTION AND MORTALITY IN SEVERE FALCIPARUM MALARIA

Tsin W. Yeo¹, Daniel Lampah², Emiliana Tjitra³, Retno Gitawati³, Enny Kenangalem⁴, Kim Piera¹, Ric Price¹, Stephen Duffull⁵, David Celermajer⁶, **Nick Anstey**¹
¹Menzies School of Health Research, Darwin, Australia, ²Menzies-National Institutes of HealthRD Timika Malaria Research Program and District Ministry of Health, Timika, Papua, Indonesia, ³National Institutes of Health Research and Development, Jakarta, Indonesia, ⁴Menzies-National Institutes of HealthRD Timika Malaria Research Program, Timika, Papua, Indonesia, ⁵University of Otago, Dunedin, New Zealand, ⁶University of Sydney, Sydney, Australia

8:30 a.m.

1184

ANGIOPOIETIN-1 AND -2 AS NOVEL BIOMARKERS OF CEREBRAL MALARIA

Fiona E. Lovegrove¹, Erin I. Lafferty¹, Andrea Conroy¹, Nimerta Rajwans¹, Noppadon Tangpukdee², Srivicha Krudsood², Robert O. Opoka³, Chandy John⁴, W. Conrad Liles¹, Kevin C. Kain¹
¹McLaughlin-Rotman Centre for Global Health, McLaughlin Centre for Molecular Medicine, University Health Network, University of Toronto, Toronto, ON, Canada, ²Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ³Department of Paediatrics and Child Health, Makerere University, Kampala, Uganda, ⁴Department of Pediatrics, University of Minnesota Medical School, Minneapolis, MN, United States

8:45 a.m.

1185

ADAMTS13 DEFICIENCY WITH ELEVATED LEVELS OF ULTRA-LARGE AND ACTIVE VON WILLEBRAND FACTOR IN MALARIA

Quirijn de Mast¹, Andre J. van der Ven¹, Puji B. Asih², Din Syafruddin², Silvie Sebastian³, Evelyn Groot³, Philip G. de Groot³, Rob Fijnheer³
¹Radboud University Nijmegen Medical Center, Nijmegen, Netherlands, ²Eijkman Institute for Molecular Biology, Jakarta, Indonesia, ³University Medical Center Utrecht, Utrecht, Netherlands

9 a.m.

1186

SINGLE MOLECULAR FORCE SPECTROSCOPY STUDY OF PLASMODIUM FALCIPARUM-INFECTED ERYTHROCYTE CYTOADHERENCE TO ENDOTHELIAL RECEPTORS

Ang Li, Tong Seng Lim, Hui Shi, Jing Yin, Shyong Wei Tan, Chwee Teck Lim
 National University of Singapore, Singapore, Singapore

9:15 a.m.

1187

C5A POTENTIATES DYSREGULATED INFLAMMATORY AND ANGIOGENIC RESPONSES IN PREGNANCY-ASSOCIATED MALARIA

Andrea L. Conroy¹, Constance Finney¹, Lena Serghides¹, Simon O. Owino², D. Channe Gowda³, W. Conrad Liles¹, Julie M. Moore², Kevin C. Kain¹
¹University of Toronto, Toronto, ON, Canada, ²Center for Tropical and Emerging Global Diseases and Department of Infectious Diseases, College of Veterinary Medicine, University of Georgia, Athens, GA, United States, ³Department of Biochemistry and Molecular Biology, Pennsylvania State University, College of Medicine, Hershey, PA, United States

9:30 a.m.

1188

DIFFERENTIAL IMMUNOPATHOGENIC OUTCOMES OF PLASMODIUM CHABAUDI AS INFECTION DURING PREGNANCY IN A/J AND B6 MICE

Demba Sarr¹, Jayakumar Poovassery², Geoffrey Smith¹, Tamas Nagy¹, Julie M. Moore¹
¹University of Georgia, Athens, GA, United States, ²University of Iowa, Ames, IA, United States
 (ACMCIP Abstract)

Symposium 169

Drug Resistance in Helminth Parasites: Fact, Fiction and Uncertainty

Bayside A

Thursday, December 11, 8 a.m. – 9:45 a.m.

There are increasing reports of decreased drug efficacy or sub-optimal responses to treatment in parasitic helminth infections of humans, as well as emerging evidence of genetic changes in parasite populations that have been subjected to multiple rounds of anthelmintic treatment, suggestive of treatment-induced selection. At the same time, there are unprecedented efforts to implement mass drug administration on a global scale to control helminth infections in human populations. Anthelmintic resistance is now widespread in parasitic helminths of livestock and lessons can be learned from that experience. The symposium will explore methods that can be employed to monitor for drug resistance, examine the evidence that resistance may or may not be developing, assess the current level of monitoring for resistance, discuss the implications of resistance development for control programs and consider how mathematical models of drug resistance can help determine research questions that need addressing and inform policy, such that parasite control can be achieved yet resistance be delayed or managed.

CHAIR

Roger K. Prichard
 McGill University, Sainte Anne-de-Bellevue, QC, Canada

Ray M. Kaplan
 University of Georgia, Athens, GA, United States

Thursday, December 11



8 a.m.**ANTHELMINTIC RESISTANCE IN SOIL TRANSMITTED HELMINTHS? CURRENT EVIDENCE, TOOLS FOR MONITORING AND RESEARCH NEEDS**

James McCarthy
University of Queensland, Herston, Australia

8:25 a.m.**SHOULD WE BE CONCERNED ABOUT DRUG RESISTANCE DEVELOPING IN LYMPHATIC FILARIA?**

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

8:50 a.m.**SUB-OPTIMAL RESPONSES TO IVERMECTIN IN ONCHOCERCA VOLVULUS: CURRENT SITUATION, FUTURE PROSPECTS**

Michel Boussinesq
Institut de Recherche en Developpement, Montpellier, France

9:15 a.m.**THE DETECTION AND SPREAD OF ANTHELMINTIC RESISTANCE: LESSONS FROM MODELING**

María-Gloria Basáñez
Imperial College, London, United Kingdom

Symposium 170**Progress Towards Understanding Fitness of Transgenic Mosquitoes**

Bayside BC

Thursday, December 11, 8 a.m. – 9:45 a.m.

Genetic modification of mosquitoes offers a promising strategy for the prevention and control of mosquito-borne diseases. Although various genetically modified strains have been designed and established in the laboratory, the debate about the potential effects of genetic modification on mosquito fitness, and deployment for success for disease control, is significant. In this symposium, speakers will present their latest findings on the ecology of genetically modified mosquitoes, with special emphasis on the role of fitness in experimental, field and modeling studies of *Aedes aegypti*.

CHAIR

Laura C. Harrington
Cornell University, Ithaca, NY, United States
Constantianus J.M. Koenraadt
Wageningen University, Wageningen, Netherlands

8 a.m.**COMPETITION AMONG THE LARVAL STAGES OF WILD, INBRED AND TRANSGENIC *AE. AEGYPTI***

Constantianus J.M. Koenraadt
Wageningen University, Wageningen, The Netherlands.

8:25 a.m.**MALE FITNESS AND MATING BIOLOGY OF TRANSGENIC *AE. AEGYPTI***

Laura C. Harrington
Cornell University, Ithaca, NY, United States

8:50 a.m.**ASSESSING POPULATION REPLACEMENT IN THE LABORATORY AND FIELD CAGES**

William C. Black
Colorado State University, Fort Collins, CO, United States

9:15 a.m.**IMPACT OF FITNESS OF TRANSGENIC AND WILD-TYPE *AE. AEGYPTI* IN POPULATION MODELS**

Mathieu Legros
North Carolina State University, Raleigh, NC, United States

Scientific Session 171**Clinical Tropical Medicine III**

Grand Ballroom C

Thursday, December 11, 8 a.m. – 9:45 a.m.

CHAIR

Patrick Blair
Naval Health Research Center, San Diego, CA, United States

Geoffrey Pasvol
Imperial College London, Harrow, United Kingdom

8 a.m.

1189

CLINICAL SYNDROMES OF *PLASMODIUM FALCIPARUM* MALARIA INFECTION IN KAMPALA, UGANDA: INITIAL RESULTS FROM THE CYTOADHERENCE IN PEDIATRIC MALARIA (CPM) CASE-CONTROL STUDY

Christine M. Cserti-Gazdewich¹, Arthur Mpimbaza², Aggrey Dhabangi³, Charles Musoke⁴, Isaac Ssewanyana⁵, Henry Ddungu⁶, Nicolette Barungi-Nabukeera⁷, Deborah Nakiboneka-Ssenabulya⁷, Walter H. Dzik⁸

¹University Health Network/University of Toronto, Toronto, ON, Canada, ²Uganda Malaria Surveillance Project, Kampala, Uganda, ³Makerere University, Faculty of Medicine, Department of Child Health & Development Centre, Kampala, Uganda, ⁴Mulago Hospital Acute Care Unit, Kampala, Uganda, ⁵Joint Clinical Research Centre, CTL Laboratory, Kampala, Uganda, ⁶Mulago Hospital, Department of Haematology, Kampala, Uganda, ⁷Makerere University, Faculty of Medicine, Department of Paediatrics & Child Health, Kampala, Uganda, ⁸Massachusetts General Hospital, Harvard University, Boston, MA, United States



8:15 a.m.

1190

THE LAMBARÉNÉ-ORGAN-DYSFUNCTION SCORE (LODS) IS A SIMPLE CLINICAL PREDICTOR FOR FATAL MALARIA IN AFRICAN CHILDREN

Raimund Helbok¹, Eric Kendjo², Saadou Issifou², Peter Lackner³, Charles R. Newton⁴, Maryvonne Kombila⁵, Tsiri Agbenyega⁶, Klaus Dietz⁷, Kalifa Bojang⁸, Erich Schmutzhard³, Peter G. Kremsner²
¹Medical Research Unit, Albert Schweitzer Hospital, Lambaréné, Gabon; ²Innsbruck Medical University, Clinical Department of Neurology, Austria, ³Medical Research Unit, Albert Schweitzer Hospital, Lambaréné, Gabon; ⁴Department of Parasitology, Institute of Tropical Medicine, University of Tübingen, Tübingen, Germany, ⁵Innsbruck Medical University, Clinical Department of Neurology, Innsbruck, Austria, ⁶Centre for Geographical Medicine, Kenya Medical Research Institute Kilifi, Kilifi, Kenya; ⁷Neuroscience Unit, Institute of Child Health, University College London, London, United Kingdom, ⁸Department of Parasitology, Mycology and Tropical Medicine, Faculty of Medicine, University of Health Sciences Libreville, Libreville, Gabon, ⁹University of Science and Technology, School of Medical Science, Kumasi, Ghana, ¹⁰Department of Medical Biometry, University of Tübingen, Tübingen, Germany, ¹¹Medical Research Council Laboratories, Banjul, Banjul, Gambia

8:30 a.m.

1191

SULFADOXINE-PYRIMETHAMINE VERSUS UNSUPERVISED ARTEMETHER-LUMEFANTRINE VERSUS UNSUPERVISED AMODIAQUINE-ARTESUNATE FIXED-DOSE FORMULATION FOR UNCOMPLICATED FALCIPARUM MALARIA IN BENINESE CHILDREN: A RANDOMIZED EFFECTIVENESS NON-INFERIORITY TRIAL

Jean-François Faucher¹, Agnes Aubouy¹, Adicat Adeothy¹, Justin Doritchamou¹, Hortense Kossou², Hyacinthe Amedome³, Achille Massougbdji⁴, Michel Cot⁵, Philippe Deloron⁵
¹IRD, Cotonou, Benin, ²PNLP, Cotonou, Benin, ³Ministry of Public health, Cotonou, Benin, ⁴FSS, Cotonou, Benin, ⁵IRD, Paris, France

8:45 a.m.

1192

RISK FOR SEVERE DISEASE IN ADULTS WITH FALCIPARUM MALARIA

Geoffrey Pasvol¹, Anastasia Phillips², Paul Bassett², Sebastian Szeki², Stanton Newman³
¹Imperial College London, Harrow, United Kingdom, ²Northwick Park Hospital, Harrow, United Kingdom, ³University College London, London, United Kingdom

9 a.m.

1193

ASSESSING THE CARDIAC EFFECTS OF ARTESUNATE (AS) AND AMODIAQUINE (AQ) IN HEALTHY VOLUNTEERS IN A SAFETY AND PK, SINGLE DOSE, RANDOMISED, TWO PHASE CROSS OVER STUDY OF A NEW FIXED DOSE AS/AQ COMBINATION AND LOOSE AS + AQ

Walter Taylor¹, Mohamed Suhaimi², Siew Gab², Suresh Ramanathan³, Sharif Mansor³, Michel Vaillant⁴, NW Sit³, Piero Olliaro⁵, Jean-Rene Kiechel⁶, Viswerwaran Navaratnam³
¹Oxford University, Hanoi, Vietnam, ²Universiti Sains Malaysia, Kubang Kerian, Malaysia, ³Universiti Sains Malaysia, Penang, Malaysia, ⁴Centre for Health Studies, Luxembourg, Luxembourg, ⁵WHO/TDR, Geneva, Switzerland, ⁶DNDi, Geneva, Switzerland

9:15 a.m.

1194

INTRAVASCULAR HEMOLYSIS: A NEGLECTED MECHANISM OF NITRIC OXIDE QUENCHING, ENDOTHELIAL DYSFUNCTION AND IMPAIRED PERFUSION IN SEVERE FALCIPARUM MALARIA?

Tsin W. Yeo¹, Daniel Lampah², Emiliana Tjitra³, Retno Gitawati³, Enny Kenangalem⁴, Kim Piera¹, Bert Lopansri⁵, Don Granger⁵, J Brice Weinberg⁶, Ric Price¹, David Celermajer⁷, Stephen Duffull⁸, **Nick Anstey**¹
¹Menzies School of Health Research, Darwin, Australia, ²MSHR-National Institutes of HealthRD Research Program and District Health Authority, Timika, Papua, Indonesia, ³National Institutes of Health Research and Development, Jakarta, Indonesia, ⁴MSHR-National Institutes of HealthRD Timika Research Program and District Health Authority, Timika, Papua, Indonesia, ⁵University of Utah, Salt Lake City, UT, United States, ⁶Duke University, Durham, NC, United States, ⁷University of Sydney, Sydney, Australia, ⁸University of Otago, Dunedin, New Zealand

9:30 a.m.

1195

PHARMACOKINETIC PROPERTIES OF CHLOROQUINE AND SULFADOXINE-PYRIMETHAMINE IN PREGNANCY

Harin A. Karunajeewa¹, Ivo Mueller², Madhu Page-Sharpe¹, Irwin Law¹, Sam Salman¹, Gomorrai Servina², Jovitha Lammey², Stephen Rogerson³, Peter Siba², Kenneth F. Ilett¹, Timothy M. Davis¹
¹University of Western Australia, Perth, Australia, ²Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea, ³University of Melbourne, Melbourne, Australia

Scientific Session 172

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Immunoparasitology I

Supported with funding from The Burroughs Wellcome Fund

Grand Ballroom D

Thursday, December 11, 8 a.m. – 9:45 a.m.

CHAIR

Matthew Collins

University of Georgia, Athens, GA, United States

Constance A. Finney

University of Toronto, Toronto, ON, Canada

8 a.m.

1240

THE ROLE OF TNF AND MYD88 IN THE INDUCTION OF B CELL PATHOLOGY FOLLOWING *TRYPANOSOMA BRUCEI* INFECTION

Viki Bockstal¹, Patrick Guirnalda¹, Deborah Frenkel¹, Stefan Magez², Samuel Black¹
¹University of Massachusetts, Department of Veterinary and Animal Sciences, Amherst, MA, United States; ²Flanders Interuniversity Institute for Biotechnology (VIB), Vrije Universiteit Brussels Laboratory of Cellular and Molecular Immunology, Department of Molecular and Cellular Recognition, Brussels, Belgium

8:15 a.m.

1196

CD8+ T CELL RESPONSES IN NONLYMPHOID TISSUE AND PARASITE CONTROL DURING *TRYPANOSOMA CRUZI* INFECTION

Matthew H. Collins, Rick L. Tarleton

University of Georgia, Athens, GA, United States

8:30 a.m.

1241

NEUTROPHILS ARE THE PREDOMINANT INITIAL HOST CELL FOR LEISHMANIA MAJOR AND ARE ESSENTIAL FOR THE ESTABLISHMENT OF SAND FLY TRANSMITTED INFECTION

Nathan C. Peters¹, Jackson G. Egen², Naglia Secundino¹, Alain Debrabant³, Nicola Kimblin¹, Shaden Kamhawi¹, Phillip Lawyer¹, Ronald N. Germain², David Sacks¹

¹National Institutes of Health, National Institute of Allergy and Infectious Diseases, Laboratory of Parasitic Diseases, Bethesda, MD, United States,

²National Institutes of Health, National Institute of Allergy and Infectious Diseases, Laboratory of Immunology, Bethesda, MD, United States, ³Division of Emerging and Transfusion Transmitted Diseases, OBRR, CBER, Food and Drug Administration, Bethesda, MD, United States

8:45 a.m.

1197

LEISHMANIA BRAZILIENSIS INTERACTION WITH DENDRITIC CELLS: DISTINCT ROLES FOR TLR2 AND TLR3

Diego A. Vargas-Inchaustegui, Lijun Xin, Lynn Soong

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

9 a.m.

1198

TLR INVOLVEMENT DURING EXPERIMENTAL MALARIA: IMPLICATIONS FOR BOTH ENDS OF THE CLINICAL SPECTRUM OF HUMAN DISEASE

Constance A. Finney, Ziyue Lu, W. Conrad Liles, Kevin C. Kain
University of Toronto, Toronto, ON, Canada

9:15 a.m.

1199

MOSQUITO RUNX4 IN THE IMMUNE REGULATION OF PPO GENES AND ITS EFFECT ON AVIAN MALARIA INFECTION

Sang Woon Shin, Zhen Zou, Kanwal Alvarez, Vladimir Kokoza, Alexander Raikhel
University of California Riverside, Riverside, CA, United States

9:30 a.m.

1200

STIMULATION OF TOLL-LIKE RECEPTOR 2 BY *PLASMODIUM FALCIPARUM* GLYCOSYLPHOSPHATIDYLINOSITOLS ENHANCES MACROPHAGE INTERNALIZATION OF PARASITIZED AND UNINFECTED ERYTHROCYTES

Laura Erdman, Kevin C. Kain

University of Toronto, Toronto, ON, Canada

Scientific Session 173

Kinetoplastida II: Epidemiology, Diagnosis and Treatment

Grand Ballroom E

Thursday, December 11, 8 a.m. – 9:45 a.m.

CHAIR

Frederick S. Buckner

University of Washington, Seattle, WA, United States

Peter J. Weina

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

8 a.m.

1201

CONGENITAL CHAGAS DISEASE TRANSMISSION IN SANTA CRUZ, BOLIVIA

Caryn Bern¹, Maritza Calderon², Carlos LaFuente³, Gerson Galdos⁴, Maria del Carmen Abastorflor³, Hugo Aparicio⁵, Mark Brady⁵, Lisbeth Ferrufino³, Manuela Verastegui², Robert H. Gilman⁶, Cesar Naquira²

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Hospital Universitario Japonés, Santa Cruz, Bolivia, ⁴Asociacion Benefica PRISMA, Lima, Philippines, ⁵Asociacion Benefica PRISMA, Lima, Peru, ⁶Johns Hopkins University School of Public Health, Baltimore, MD, United States



8:15 a.m.

1202

DIAGNOSTIC ACCURACY OF *LEISHMANIA* OLIGOC-TEST FOR THE DIAGNOSIS OF CUTANEOUS LEISHMANIASIS IN PERU

Diego Espinosa¹, Andrea K. Boggild², Stijn Deborggraeve³, Thierry Laurent⁴, Cristian Valencia¹, César Miranda-Verástegui¹, Alejandro Llanos-Cuentas¹, Thierry Leclipteux⁴, Jean-Claude Dujardin³, Philippe Büscher³, Jorge Arévalo¹

¹Instituto de Medicina Tropical Tropical "Alexander von Humboldt", Universidad Peruana Cayetano Heredia, Lima, Peru, ²Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, ON, Canada, ³Department of Parasitology, Institute of Tropical Medicine, Antwerp, Belgium, ⁴Coris BioConcept, Gembloux, Belgium

8:30 a.m.

1203

EQUIVALENCE STUDY USING REDUCED DOSES OF ANTIMONY PLUS RECOMBINANT HUMAN GM-CSF COMPARED WITH ANTIMONY IN STANDARD DOSES FOR CUTANEOUS LEISHMANIASIS: A RANDOMIZED, DOUBLE BLIND STUDY

Roque P. Almeida¹, Maria Elisa A. Rosa², Josiane S. Carvalho², Julia Ampuero³, Luis Henrique Guimaraes², Paulo R. Machado², Edgar M. Carvalho²

¹Federal University of Sergipe, Aracaju-SE, Brazil, ²Federal University of Bahia, Salvador-BA, Brazil, ³Federal University of Brasilia, Brasilia-DF, Brazil

8:45 a.m.

1204

A NOVEL AND HIGHLY POTENT CLASS OF COMPOUNDS FOR THE TREATMENT OF TRYPANOSOMIASIS

Richard C. Thompson¹, Tanya Armstrong¹, Wayne M. Best², Susan Charman³, Robert Don⁴, Caroline Laverty³, Giuseppe Luna², Colette Colette²

¹Murdoch University, Murdoch, Australia, ²Epichem Pty Ltd Murdoch, Australia, ³Centre for Drug Candidate Optimisation, Monash University, Melbourne, Australia, ⁴Drugs for Neglected Diseases Initiative, Geneva, Switzerland

9 a.m.

1205

AN2920, A NOVEL OXABORALE, SHOWS *IN VITRO* AND *IN VIVO* ACTIVITY AGAINST *TRYPANOSOMA BRUCEI*

Yvonne R. Freund¹, Jacob Plattner¹, Maha Abdulla², James McKerrow², Tana Bowling³, Luke Mercer³, Bakela Nare³, Steven Wring³, Robert Jacobs³, Nigel Yarlett⁴, Cyrus Bacchi⁴, Louis Maes⁵, Robert Don⁶

¹Anacor Pharmaceuticals, Inc., Palo Alto, CA, United States, ²Sandler Center, University of California San Francisco, San Francisco, CA, United States, ³Scynexis, Inc., Research Triangle Park, NC, United States, ⁴Haskins Laboratory, Pace University, New York, NY, United States, ⁵University of Antwerp, Antwerp, Belgium, ⁶Drugs for Neglected Diseases initiative, Geneva, Switzerland

9:15 a.m.

1206

SCREENING FDA APPROVED DRUGS FOR ACTIVITY AGAINST *TRYPANOSOMA CRUZI*: LOOKING FOR COMBINATION CHEMOTHERAPY FOR CHAGAS DISEASE

Frederick S. Buckner, Joseph D. Planer
University of Washington, Seattle, WA, United States

(ACMCIP Abstract)

9:30 a.m.

1207

ANTILEISHMANIAL ACTIVITY OF SELECTED FDA-APPROVED DRUGS IN A MURINE CUTANEOUS LEISHMANIASIS MODEL

David Saunders, Qiqui Li, Carlson Misty, Lisa Xie, Qiang Zheng, Jing Zhang, Juan Mendez, John Tally, Alan Magill, Grogl Max, Suping Jiang, Peter Weina

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

Coffee Break

Napoleon Ballroom

Thursday, December 11, 9:45 a.m. – 10:15 a.m.

Symposium 174

Measuring Disease Burden and Cost of Illness of Neglected Tropical Diseases: Lessons from a Multi-Country Dengue Study

Gallery

Thursday, December 11, 10:15 a.m. – Noon

This session will review challenges and solutions for measuring health impact and quality of life during an acute illness episode that affects children or adults. Challenges and solutions for merging and extrapolating survey and incomplete surveillance data on illness cases and deaths will be discussed. Participants will study methodological challenges and approaches for estimating cost of illness including costs of medical care and productivity losses from patients' illness and death and the family's time in providing care. Finally, presenters will explore approaches for combining information on illness episodes with data on vector control to obtain the total cost of dengue, and the implications for other neglected tropical diseases.

CHAIR

Jose A. Suaya
Brandeis University, Waltham, MA, United States

Donald S. Shepard
Brandeis University, Waltham, MA, United States

Scott B. Halstead
Uniformed Services University of the Health Scienc, North Bethesda, MD, United States

10:15 a.m.

INTRODUCTION

Jose Suaya
Brandeis University, Waltham, MA, United States

Thursday, December 11



10:25 a.m.**INTRODUCTION**

Scott B. Halstead
Uniformed Services University of the Health Science, North Bethesda, MD, United States

10:40 a.m.**ANALYZING THE HEALTH IMPACT OF DENGUE**

Celina T. Martelli
Federal University of Goias, Goiana, Brazil

10:55 a.m.**ASSESSING QUALITY OF LIFE DURING A DENGUE ILLNESS EPISODE**

Lucy C. Lum
University Malaya, Kuala Lumpur, Malaysia

11:10 a.m.**ESTIMATING COST OF DENGUE TREATMENT**

Sukhontha Kongsin
Mahidol University, Bangkok, Thailand

11:25 a.m.**ESTIMATING COST OF DENGUE IN PUERTO RICO: COST PER EPISODE**

Hamish Mohammed
Centers for Disease Control and Prevention, San Juan, PR, United States

11:40 a.m.**ESTIMATING COST OF DENGUE IN PUERTO RICO: AGGREGATE COST**

Donald S. Shepard
Brandeis University, Waltham, MA, United States

Symposium 175**Viral Hemorrhagic Fevers***Waterbury***Thursday, December 11, 10:15 a.m. – Noon**

Hemorrhagic fever viruses pose threats to human health in populations in endemic areas, as well as through potential use as bioterrorist agents. Ebola, Marburg, Lassa, and Rift Valley fever virus are among the agents of particular concern. Recent field research has shed light on the natural reservoirs and modes of transmission of many of these agents. Furthermore, intensive laboratory research has begun to produce candidate diagnostics, treatments and vaccines with the potential to drastically reduce case fatality rates and curtail outbreaks. Recent progress in the field of viral hemorrhagic fevers will be discussed.

CHAIR

Daniel G. Bausch
Tulane School of Public Health and Tropical Medicine, New Orleans, LA, United States
 Thomas Geisbert
Boston University School of Medicine, Boston, MA, United States

10:15 a.m.**IS THE MYSTERY OF THE FILOVIRUS RESERVOIR SOLVED?**

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

10:40 a.m.**RECOMBINANT DIAGNOSTICS FOR THE ARENAVIRUSES**

Joseph Fair
Southern Research Institute, Birmingham, AL, United States

11:05 a.m.**EXPERIMENTAL THERAPIES**

Brian Gowen
Utah State University, Logan, UT, United States

11:30 a.m.**VACCINES**

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

Scientific Session 176**Malaria – Biology and Pathogenesis II***Napoleon A123***Thursday, December 11, 10:15 a.m. – Noon****CHAIR**

Amanda K. Lukens
Harvard School of Public Health, Boston, MA, United States
 Kayla T. Wolofsky
University of Toronto, Toronto, ON, Canada

10:15 a.m.**1208****ROLE OF RED CELL COMPLEMENT REGULATORY PROTEINS IN ERYTHROPHAGOCYTOSIS DURING *PLASMODIUM CHABAUDI* INFECTION**

Juliana V. Harris¹, Catherine N. Stracener¹, Xiaobo Wu², Dirk Spitzer², John P. Atkinson², José A. Stoute¹
¹*Uniformed Services University, Bethesda, MD, United States*,
²*Washington University, St. Louis, MO, United States*

(ACMCIP Abstract)**10:30 a.m.****1209****ATP DEPLETION OF RED BLOOD CELLS RECAPITULATES THE PHENOTYPE ASSOCIATED WITH PYRUVATE KINASE DEFICIENCY AND PROTECTS AGAINST *PLASMODIUM FALCIPARUM* MALARIA**

Kodjo Ayi¹, Conrad W. Conrad², Kevin C. Kain³
¹*Tropical Disease Unit, McLaughlin-Rotman Centre for Global Health, University of Toronto, Toronto, ON, Canada*, ²*Tropical Disease Unit, McLaughlin-Rotman Centre for Global Health and Molecular Medicine; Institute of Medical Sciences, Toronto, ON, Canada*, ³*Tropical Disease Unit, McLaughlin-Rotman Centre for Global Health and Molecular Medicine; Institute of Medical Sciences, University of Toronto, Toronto, ON, Canada*



10:45 a.m.

1210

AFM STUDY OF THE EXTRACELLULAR AND THE CYTOPLASMIC SURFACES OF *PLASMODIUM FALCIPARUM* INFECTED ERYTHROCYTE MEMBRANES

Hui Shi, Ang Li, Jing Yin, Kavin Tan, Chwee Teck Lim
National University of Singapore, Singapore, Singapore

11 a.m.

1211

IDENTIFICATION OF A NOVEL FAMILY OF VARIANT SURFACE ANTIGENS IN *PLASMODIUM FALCIPARUM*

Amanda K. Lukens¹, Daniel E. Neafsey², Stephen F. Schaffner², Daniel J. Park², Philip Montgomery², Sarah K. Volkman¹, Pardis C. Sabeti², Danny A. Milner, Jr.¹, Johanna P. Daily¹, Ousmane Sarr³, Daouda Ndiaye³, Omar Ndir³, Soulyemane Mboup³, Nicole Stange-Thomann², Roger C. Wiegand², Bruce W. Birren², Daniel L. Hartl⁴, James E. Galagan², Eric S. Lander², Dyann F. Wirth¹
¹*Harvard School of Public Health, Boston, MA, United States*, ²*The Broad Institute of MIT and Harvard, Cambridge, MA, United States*, ³*Cheikh Anta Diop University, Dakar, Senegal*, ⁴*Harvard University, Cambridge, MA, United States*

(ACMCIP Abstract)

11:15 a.m.

1213

GENOTYPIC DIFFERENCES IN *PLASMODIUM FALCIPARUM* FROM DIFFERENT MALARIAL DISEASE STATES IN CHILDREN FROM UGANDA

David M. Menge¹, Robert O. Opoka², Chandy C. John³
¹*Center for Infectious Diseases and Microbiology Translational Research, University of Minnesota, Minneapolis, MN, United States*, ²*Department of Paediatrics and Child Health, Makerere University Medical School and Mulago Hospital, Kampala, Uganda*, ³*Global Pediatrics Program, University of Minnesota, Minneapolis, MN, United States*

11:30 a.m.

1214

ABO POLYMORPHISM AND *PLASMODIUM FALCIPARUM* MALARIA

Kayla T. Wolofsky¹, Kodjo Ayi², Conrad W. Liles³, Christine M. Cserti-Gazdewich⁴, Kevin C. Kain⁵
¹*McLaughlin-Rotman Centre for Global Health; Institute of Medical Sciences, University of Toronto, Toronto, ON, Canada*, ²*Tropical Disease Unit, McLaughlin-Rotman Centre for Global Health, University of Toronto, Toronto, ON, Canada*, ³*Tropical Disease Unit, McLaughlin-Rotman Centre for Global Health and Molecular Medicine; Institute of Medical Sciences, University of Toronto, Toronto, ON, Canada*, ⁴*Blood Transfusion Laboratory, Toronto General Hospital; Department of Laboratory Hematology, University of Toronto, Toronto, ON, Canada*, ⁵*Tropical Disease Unit, McLaughlin-Rotman Centre for Global Health and Molecular Medicine; Institute of Medical Science, University of Toronto, Toronto, ON, Canada*

Symposium 177

Sepsis in the Tropics

Bayside A

Thursday, December 11, 10:15 a.m. – Noon

Sepsis is an increasingly recognized cause of death in the tropics, particularly in sub-Saharan Africa where the burden of HIV infection contributes to the susceptibility to invasive bacterial infections. However, the ability to treat critical illnesses, including sepsis, severe sepsis, and septic shock, is often limited by lack of human and material resources in tropical regions. A better understanding of the current state of intensive care in the tropics is needed to improve capacity to treat these illnesses. Furthermore, successful empirical treatment of sepsis relies upon an understanding of local microbiology and resistance patterns which differ geographically between tropical and non-tropical regions, as well as within the tropics. The interaction of malaria and HIV infection with invasive bacterial infections must also be considered. Additionally, due to lack of resources, different strategies regarding diagnosis and treatment of sepsis are required compared to resource rich regions where comprehensive but heavily resource dependent early goal-directed therapy and sepsis “bundles” are standard of care. This symposium will address these topics and strategies for managing the septic patient in the tropics.

CHAIR

Christopher C. Moore
University of Virginia, Charlottesville, VA, United States
W. Michael Scheld
University of Virginia, Charlottesville, VA, United States

10:15 a.m.

THE CURRENT STATE OF INTENSIVE CARE IN THE TROPICS

Patrick Banura
Masaka Regional Referral Hospital, Masaka, Uganda

10:40 a.m.

THE MICROBIOLOGY OF SEPSIS IN THE TROPICS

Christopher Moore
University of Virginia, Charlottesville, VA, United States

11:05 a.m.

SPECIAL CONSIDERATIONS FOR SEPSIS IN THE TROPICS: AGE, GEOGRAPHY, AND HIV IMMUNE RECONSTITUTION SYNDROME

David Boulware
University of Minnesota, Minneapolis, MN, United States

11:30 a.m.

THE DIAGNOSIS AND MANAGEMENT OF SEPSIS IN THE TROPICS

Shevin T. Jacob
University of Washington, Seattle, WA, United States

Thursday, December 11

Scientific Session 178

Mosquitoes – Insecticide Resistance and Control

Bayside BC

Thursday, December 11, 10:15 a.m. – Noon

CHAIR

Audrey Lenhart

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Charles Wondji

Liverpool School of Tropical Medicine, Liverpool, United Kingdom

10:15 a.m.

1216

TOXICITY OF HIGHLY SELECTIVE CARBAMATES TOWARDS THE MALARIA MOSQUITO, *ANOPHELES GAMBIAE*

James M. Mutunga, Troy D. Anderson, Bryan T. Jackson, Joshua A. Hartsel, Sally L. Paulson, Paul R. Carlier, Jeffrey R. Bloomquist

Virginia Tech, Blacksburg, VA, United States

10:30 a.m.

1217

COMBINING ORGANOPHOSPHATES AND REPELLENTS ON FABRICS: A PROMISING STRATEGY TO BETTER CONTROL PYRETHROID RESISTANT MOSQUITOES

Cédric Pennetier¹, Costantini Carlo², Chabi Joseph³, Dabiré Rock⁴, Corbel Vincent¹, Lapiéd Bruno⁵, Pagès Frédéric⁶, Hougard Jean-Marc³

¹Institut de Recherche pour le Développement, Montpellier, France, ²Institut de Recherche pour le Développement, Bobo-Dioulasso, Burkina Faso, ³Institut de Recherche pour le Développement, Cotonou, Benin, ⁴Institut de Recherche en Sciences de la Santé (IRSS), Bobo-Dioulasso, Burkina Faso, ⁵Université d'Angers, Angers, France, ⁶Institut de Médecine Tropicale du service de Santé des Armées, Marseille, France

10:45 a.m.

1218

DEVELOPMENT OF A NOVEL FORMULATION FOR USE IN INDOOR RESIDUAL SPRAY PROGRAMS

John R. Lucas¹, Takaaki Itoh², Yoshinori Shono², Luc Djogbénu³, Jean-Marc Hougard³

¹Sumitomo Chemical Co. (UK) Plc, London, United Kingdom, ²Sumitomo Chemical Co., Ltd., Environmental Health Division, Tokyo, Japan, ³Centre de Recherches Entomologiques de Cotonou (CREC), Cotonou, Benin

11 a.m.

1220

EFFICACY OF INSECTICIDE TREATED MATERIALS (ITMS) FOR DENGUE CONTROL IN LATIN AMERICA AND ASIA: CLUSTER RANDOMIZED CONTROLLED TRIALS IN VENEZUELA AND THAILAND

Audrey Lenhart¹, Elci Villegas², Carmen Elena Castillo², Yuwadee Trongtokit³, Chamnarn Apiwathnasorn³, Neal Alexander⁴, Philip J. McCall¹

¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²Universidad de los Andes, Trujillo, Venezuela, ³Mahidol University, Bangkok, Thailand, ⁴London School of Hygiene and Tropical Medicine, London, United Kingdom

11:15 a.m.

1221

REDUCED EFFICACY OF PYRETHROID SPACE SPRAYS FOR DENGUE CONTROL IN PYRETHROID RESISTANCE AREA (MARTINIQUE)

Sebastien Marcombe¹, Alexandre Carron², Frédéric Darriet¹, Manuel Etienne Etienne³, Michel Tolosa Tolosa², Marie-Michèle Yp-Tcha³, Christophe Lagneau², André Yébakima¹, Vincent Corbel¹

¹Institut de Recherche pour le Développement, Montpellier, France, ²Entente Interdépartementale pour la Démoustication du littoral méditerranéen (EID Méditerranée), Montpellier, France, ³Centre de Démoustication, Fort de France, Martinique

Scientific Session 179

Clinical Tropical Medicine IV

Grand Ballroom C

Thursday, December 11, 10:15 a.m. – Noon

CHAIR

Christina Greenaway

SMBD Jewish General Hospital, Montréal, QC, Canada

Parsotam Hira

Kuwait University, Kuwait City, Kuwait

10:15 a.m.

1222

FATAL OUTBREAK FROM CONSUMING *XANTHIUM STRUMARIUM* SEEDLINGS DURING TIME OF FOOD SCARCITY IN NORTHEASTERN BANGLADESH

Emily S. Gurley¹, Mahmudur Rahman², M. Jahangir Hossain¹, Nazmun Nahar¹, Be-Nazir Ahmed², Rebeca Sultana¹, Selina Khatun², M. Sabbir Haider², M. Saiful Islam¹, Utpal K. Mondal¹, Stephen P. Luby¹

¹International Center for Diarrhoeal Disease Research, B, Dhaka, Bangladesh, ²IEDCR, Ministry of Health and Family Welfare, Dhaka, Bangladesh

10:30 a.m.

1223

EFFECT OF READY-TO-USE-THERAPEUTIC FOOD SUPPLEMENTATION ON THE NUTRITIONAL STATUS, MORTALITY AND MORBIDITY OF CHILDREN 6 TO 60 MONTHS IN NIGER: A CLUSTER RANDOMIZED TRIAL

Sheila Isanaka¹, Nohelly Nombella², Ali Djibo³, Marie Poupard², Dominique Van Beckhoven², Valerie Gaboulaud², Philippe J. Guerin², **Rebecca F. Grais**²

¹Departments of Epidemiology and Nutrition, Harvard School of Public Health, Boston, MA, United States, ²Epicentre, Paris, France, ³Ministry of Health, Niamey, Niger

10:45 a.m.

1224

PATHOGENESIS OF HAEMORRHAGE ASSOCIATED WITH DENGUE INFECTION IN ADULTS IN VIETNAM

Dinh The Trung¹, Tran Tinh Hien², Le Thi Thu Thao², Nguyen Minh Dung², Tran Van Ngoc², Robert Goldin³, Edward Tuddenham⁴, Cameron Simmons⁵, Jeremy Farrar⁵, Bridget Wills⁵

¹University of Medicine and Pharmacy of Ho Chi Minh City, Ho Chi Minh City, Vietnam, ²Hospital for Tropical Diseases, Ho Chi Minh city, Vietnam, ³Department of Investigative Sciences, Imperial College, London, United Kingdom, ⁴Katherine Dormandy Haemophilia Centre and Thrombosis Unit University College, London, United Kingdom, ⁵Oxford University Clinical Research Unit, Hospital for Tropical Diseases, Ho Chi Minh city, Vietnam

11 a.m.

1225

IMPACT OF MASS AZITHROMYCIN TREATMENT ON THE PREVALENCE OF ACTIVE TRACHOMA AND OCULAR CHLAMYDIA TRACHOMATIS IN THE GAMBIA

Emma Harding-Esch¹, Martin J. Holland¹, Ansumana Sillah², Sandra Molina¹, Aura Aguirre-Andreasen¹, Paul Snell³, Tansy Edwards¹, Robin L. Bailey¹, David C. Mabey¹

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²National Eye Care Programme, Banjul, Gambia, ³Medical Research Council Laboratories, Fajara, Gambia

11:15 a.m.

1226

EXTRA-HEPATIC CYSTIC HYDATID DISEASE: A DIAGNOSTIC DILEMMA?

Parsotam R. Hira¹, Faiza Al-Ali², Fathma A. Al-Shelahi², Nabila Khalid¹, Nadia A. Al-Enezy³, Santosh Hebbar⁴, Deena Al-Rifaa⁵, Mehraj Sheikh⁶

¹Department of Microbiology, Faculty of Medicine, Kuwait City, Kuwait, ²Department of Laboratories, Farwaniya Hospital, Kuwait City, Kuwait, ³Department of Laboratories, Mubarak Al-Kabeer Hospital, Kuwait City, Kuwait, ⁴Department of Radiology, Farwaniya. Hospital, Kuwait City, Kuwait, ⁵Department of Radiology, Farwaniya. Hospital, Farwaniya, Kuwait City, Kuwait, ⁶Department of Radiology, Faculty of Medicine, Kuwait City, Kuwait

11:30 a.m.

1227

SEROPREVALENCE OF STRONGYLOIDES IN NEWLY ARRIVED IMMIGRANTS AND REFUGEES

Christina A. Greenaway¹, J. Dick MacLean², Brian J. Ward³, Momar Ndao³

¹SMBD Jewish General Hospital, Montreal, QC, Canada, ²McGill University Centre for Tropical Diseases, Montreal, QC, Canada, ³National Reference Centre for Parasitology, Montreal, QC, Canada

11:45 a.m.

1228

PHENOTYPIC AND GENOTYPIC EVIDENCE OF EMERGING IVERMECTIN RESISTANCE IN ONCHOCERCIASIS

Mike Y. Osei-Atweneboana¹, Simon K. Atta², Kwablah Awadzi³, Daniel A. Boakye⁴, John O. Gyapong⁵, Roger K. Prichard¹

¹McGill University, Ste. Anne-De-Bellevue, QC, Canada, ²Onchocerciasis Chemotherapy Research Center, Hohoe, Ghana, ³Onchocerciasis Chemotherapy Research Center, Hohoe, Ghana, ⁴Noguchi Memorial Institute for Medical Research, Accra, Ghana, ⁵Health Research Center, Ghana Health Services, Accra, Ghana

Scientific Session 180

American Committee of Molecular, Cellular and Immunoparasitology (ACMCIP): Immunoparasitology II

Supported with funding from The Burroughs Wellcome Fund

Grand Ballroom D

Thursday, December 11, 10:15 a.m. – Noon

CHAIR

Olivia Finney
London School of Hygiene and Tropical Medicine, Banjul, Gambia

Simon Metenou
National Institutes of Health, Bethesda, MD, United States

10:15 a.m.

1242

DENDRITIC CELL IL-23 PRODUCTION IN RESPONSE TO SCHISTOSOME EGGS INDUCES TH17 CELLS IN A MOUSE STRAIN PRONE TO SEVERE IMMUNOPATHOLOGY

Mara G. Shainheit, Patrick M. Smith, Lindsey E. Bazzone, Laura I. Rutitzky, Miguel J. Stadecker

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

10:30 a.m.

1229

CO-CULTURE WITH *P. FALCIPARUM*-INFECTED RED BLOOD CELLS INDUCES DIFFERENTIATION OF FUNCTIONALLY COMPETENT REGULATORY T CELLS FROM LYMPHOCYTES OF MALARIA-NAÏVE DONORS

Olivia Finney¹, Emma Lawrence², Judith Satoguina³, David Conway³, Eleanor Riley¹, Michael Walther³
¹LSHTM, London, United Kingdom, ²Manchester University, Manchester, United Kingdom, ³MRC, Banjul, Gambia

10:45 a.m.

1230

FUNCTIONAL RELATIONSHIP BETWEEN IL-1BETA PROMOTER HAPLOTYPES (-31C/T AND -511A/G) AND PEDIATRIC SEVERE MALARIAL ANEMIA

Collins Ouma¹, Tom Were¹, Greg Davenport², Christopher Keller³, Samuel Anyona¹, Henry Ndege¹, Michael Otieno⁴, John Vulule⁵, Jeremy Martinson², Robert Ferrell², John Michael Ong'echa¹, Douglas Perkins⁶
¹University of New Mexico/KEMRI, Kisian, Kenya, ²University of Pittsburgh, Pittsburgh, PA, United States, ³Lake Erie College of Osteopathic Medicine, Erie, PA, United States, ⁴Kenyatta University, Nairobi, Kenya, ⁵KEMRI, Kisian, Kenya, ⁶University of New Mexico, Albuquerque, NM, United States

11 a.m.

1231

INHIBITION OF *ANCYLOSTOMA CEYLANICUM* MACROPHAGE MIGRATION INHIBITORY FACTOR (ACEMIF): POTENTIAL FOR PREVENTING HOOKWORM-ASSOCIATED IMMUNOMODULATION AND DISEASE PATHOGENESIS

Jon J. Vermeire¹, Yoonsang Cho², Lin Leng³, Elias Lolis², Richard Bucala³, Michael Cappello¹
¹Program in International Child Health and Department of Pediatrics, Yale University School of Medicine, New Haven, CT, United States, ²Department of Pharmacology, Yale University School of Medicine, New Haven, CT, United States, ³Department of Medicine, Yale University School of Medicine, New Haven, CT, United States

11:15 a.m.

1243

PERIPHERAL TREG INDUCTION CAN BE DIRECTLY MEDIATED BY HELMINTH-DERIVED PRODUCTS

John R. Grainger, Henry J. McSorley, Yvonne M. Harcus, Edward J. Greenwood, Rick M. Maizels
Institute of Immunology and Infection Research, University of Edinburgh, Edinburgh, United Kingdom

11:30 a.m.

1232

PATENT FILARIAL INFECTION MODULATES MALARIA-SPECIFIC TYPE 1 CYTOKINE RESPONSES IN AN IL-10 DEPENDENT MANNER IN A FILARIA/MALARIA CO-INFECTED POPULATION

Simon Metenou¹, Benoit Dembele², Siaka Konate², Housseini Dolo², Lamine Soumaoro², Abdallah A. Diallo², Michel E. Coulibaly², Siaka Y. Coulibaly², Dramane Sanogo², Yaya I. Coulibaly², Sekou F. Traore², Amy Klion¹, Thomas B. Nutman¹, Siddhartha Mahanty¹
¹National Institutes of Health, Bethesda, MD, United States, ²Filaria Unit, FMPOS, University of Bamako, Bamako, Mali

11:45 a.m.

1233

CO-INFECTION WITH HELMINTHS AND MALARIA DURING PREGNANCY EFFECT SUSCEPTIBILITY TO *FALCIPARUM* MALARIA DURING CHILDHOOD

Indu Malhotra¹, Peter Mungai¹, Alex Wamachi², John Ouma³, Davy Koech², Eric Muchiri⁴, Christopher L. King¹
¹Case Western Reserve University, Cleveland, OH, United States, ²Kenya Medical Research Institute, Nairobi, Kenya, ³Kenyatta University, Nairobi, Kenya, ⁴Division Of Vector Borne Diseases, Nairobi, Kenya

Symposium 181

Influenza in Tropical Countries: An Unrecognized Player

Grand Ballroom E

Thursday, December 11, 10:15 a.m. – Noon

While influenza has been widely studied in developed countries with temperate climates, little is known about the epidemiology and burden of disease of influenza in developing, tropical countries. This symposium will highlight findings from recent influenza surveillance in developing, tropical countries in Africa, Asia and Latin America.

CHAIR

Robert F. Breiman
Centers for Disease Control and Prevention-Kenya, Nairobi, Kenya

10:15 a.m.

INTO AFRICA: INFLUENZA SURVEILLANCE IN KENYA

Mark A. Katz
Centers for Disease Control and Prevention-Kenya, Nairobi, Kenya

10:30 a.m.

SEVERE ACUTE RESPIRATORY INFECTION SURVEILLANCE IN THE MIDDLE EAST

Anthony A. Marfin
U.S. Naval Medical Research Unit – 3, Cairo, Egypt.



ASTMH 57th Annual Meeting

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10:45 a.m.

HIGH PREVALENCE AND OFF AXIS SEASONALITY OF INFLUENZA IN BANGLADESH

Rashid Uz Zaman
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

11 a.m.

AN EARLY REPORT FROM A RANDOMIZED CONTROLLED TRIAL OF NONPHARMACEUTICAL INTERVENTIONS TO REDUCE HOUSEHOLD INFLUENZA TRANSMISSION: THE BANGKOK HITS STUDY

James Mark Simmerman
Centers for Disease Control and Prevention Thailand, Bangkok, Thailand

11:15 a.m.

INFLUENZA AND SEVERE ACUTE RESPIRATORY INFECTION IN GUATEMALA

Kim Lindblade
International Emerging Infections Program, Centers for Disease Control and Prevention Regional Office in Central America and Panama, Guatemala City, Guatemala

11:30 a.m.

QUESTION AND ANSWER SESSION

**ASTMH 57th Annual Meeting Adjourns
Thursday, December 11, Noon**

See you next year in Washington, D.C.!

Thursday, December 11



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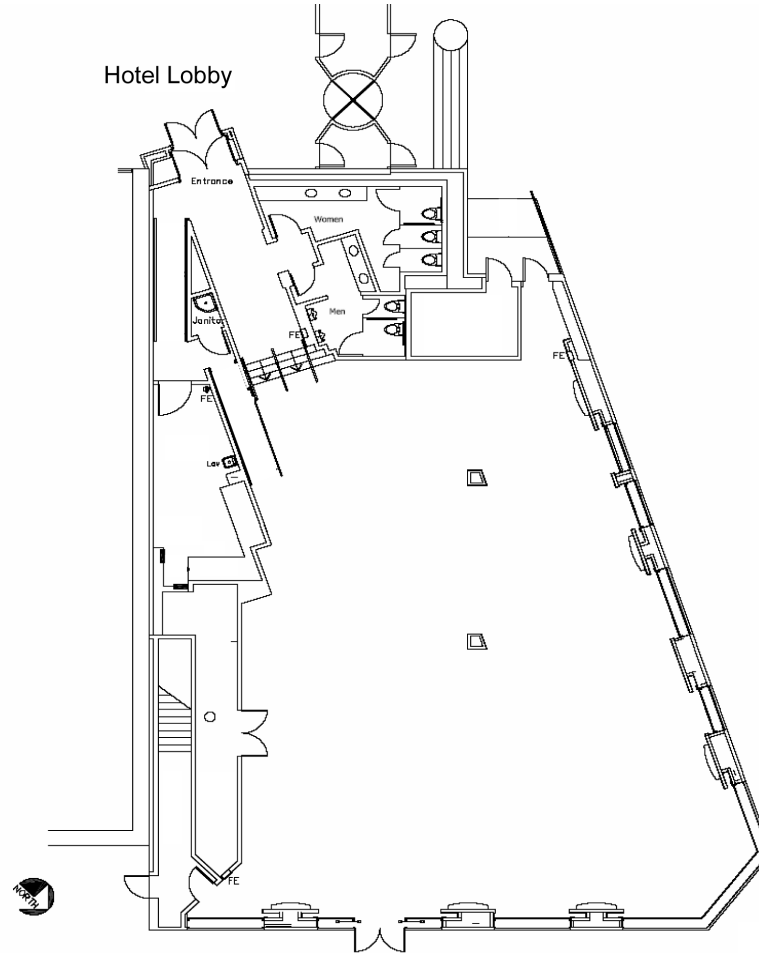
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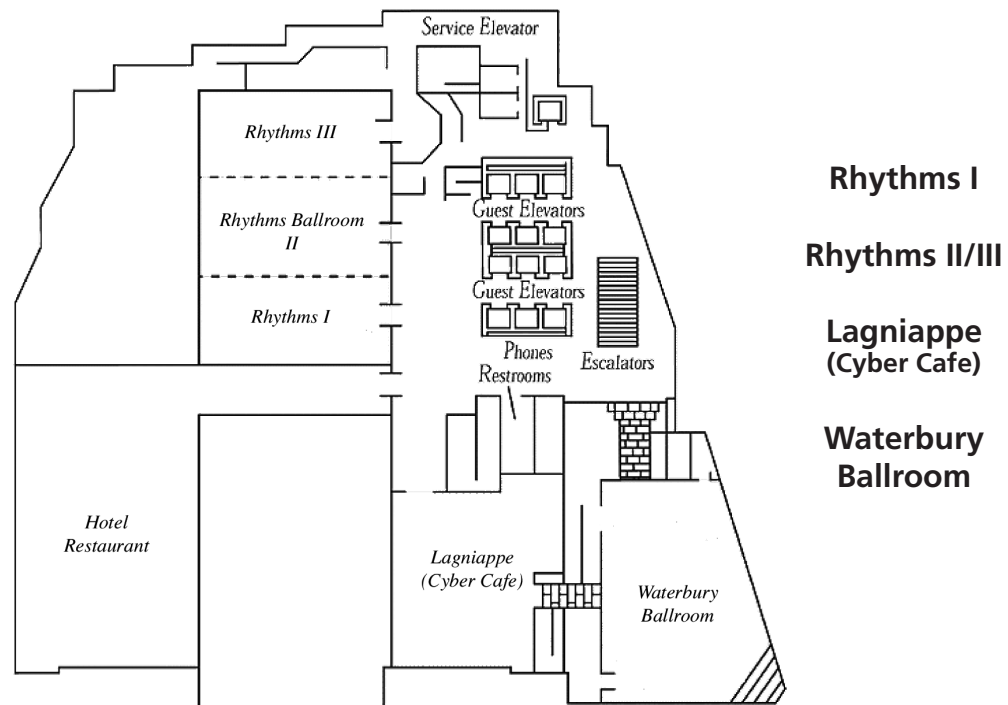


HOTEL FLOORPLAN

First Floor — Gallery Ballroom



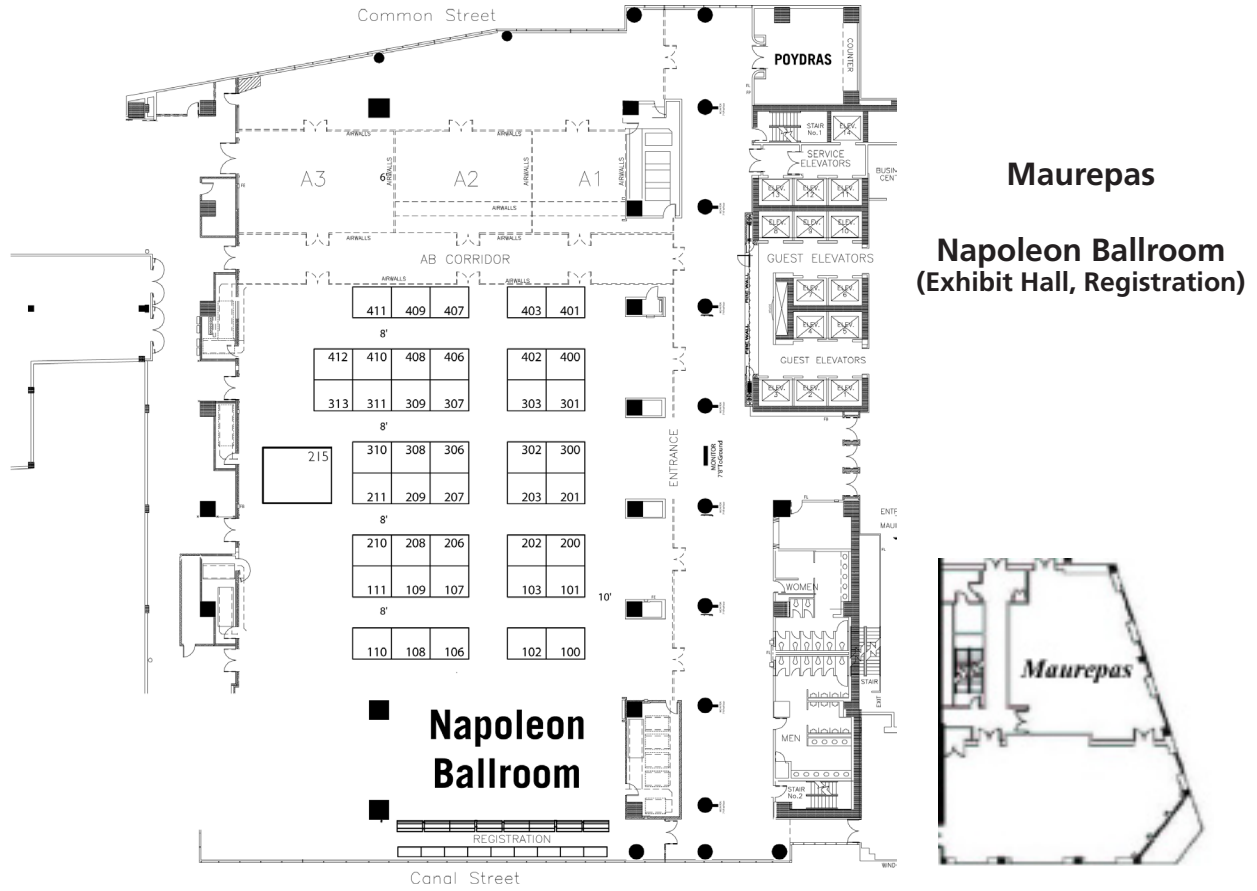
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HOTEL FLOORPLAN

Third Floor



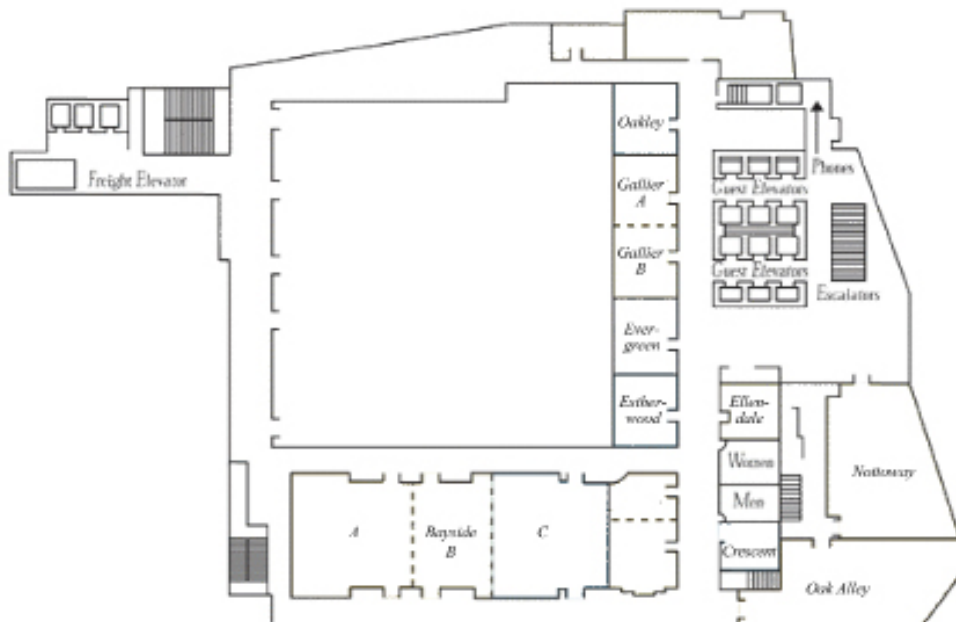
Maurepas

**Napoleon Ballroom
(Exhibit Hall, Registration)**

**Napoleon
Ballroom**

- Bayside A**
- Bayside BC**
- Nottoway
(Speaker Ready Room)**
- Oak Alley**
- Crescent**
- Ellendale**
- Estherwood**
- Evergreen**
- Gallier AB**
- Oakley**

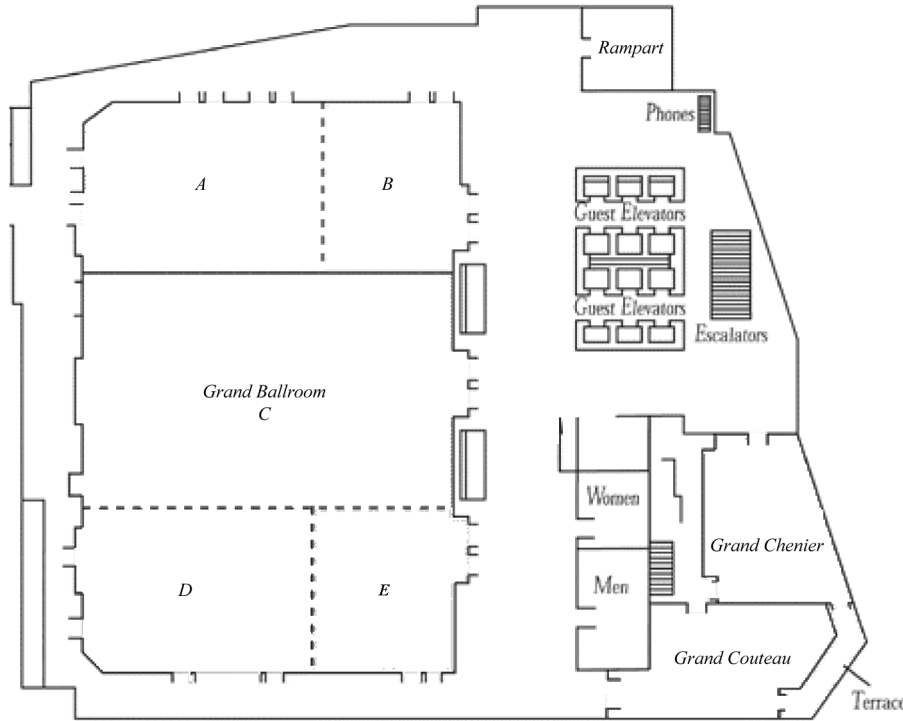
Fourth Floor





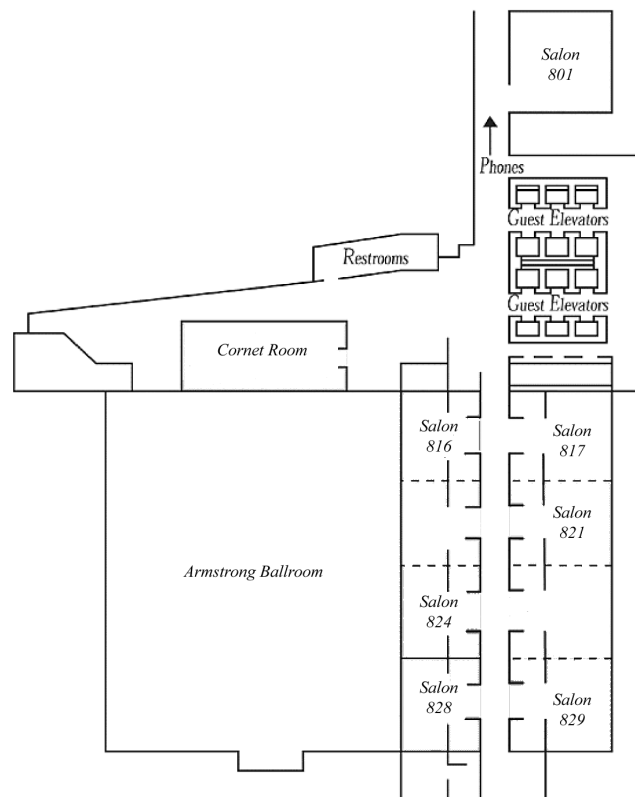
HOTEL FLOORPLAN

Fifth Floor



- Grand Chenier
- Grand Couteau
- Rampart
- Grand Ballroom A
- Grand Ballroom B
- Grand Ballroom C
- Grand Ballroom D
- Grand Ballroom E

Eighth Floor



- Armstrong Ballroom
(Poster Hall)
- Cornet
(Poster Hall)
- Salon 801
- Salon 816
(Meeting Room Sign-Up)
- Salon 817/821
- Salon 824
(Meeting Room Sign-Up)
- Salon 828
- Salon 829





