

Symposium 141

8-Aminoquinolines: Past, Present and Future I

Jefferson West

Thursday, December 15 8 – 9:45 a.m.

8-Aminoquinolines are an important class of anti-infective drugs with promising utility against malaria, leishmaniasis and *Pneumocystis carinii* pneumonia (PCP). Their potential use in coccidiosis and trypanosomiasis has also been suggested. Primaquine has been the only drug available for treatment of relapsing malaria, while a few other 8-aminoquinolines are currently under development. 8-Aminoquinolines also show gametocytocidal and sporontocidal actions indicating their promising use in interruption of malaria transmission. Their use in chemoprophylaxis against malaria infection has also been evaluated. The most important safety concerns with these drugs are methemoglobinemia and hemolytic events, particularly in populations with glucose 6-phosphate dehydrogenase deficiencies. Biotransformation mechanisms, which appear to be central to anti-infective and hematological toxicities, are still not well understood. Recent studies have shown potential for development of stereoselective analogs with better efficacy and reduced toxicity. A symposium to discuss the critical issues related to their efficacy, toxicity and recent preclinical and clinical advancements would be a useful forum for advancing the development and utility of this class. This session will focus on use and development of 8-aminoquinolines for treatment and prophylaxis of malaria.

CHAIR

Babu L. Tekwani

National Center for Natural Products Research, University of Mississippi, University, MS, United States

CHAIR

Wilbur K. Milhous

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

Larry A. Walker

National Center for Natural Products Research, University of Mississippi, University, MS, United States

8 a.m.

INTRODUCTION- PRIMAQUINE AND ALTERNATE 8-AMINOQUINOLINES

Wilbur K. Milhous

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

8:15 a.m.

UPDATE ON 8-AMINOQUINOLINE TAFENOQUINE

Mark Fukuda

USA MC, Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

8:45 a.m.

DEVELOPMENT OF AN 8-AMINOQUINOLINE (NPC1161) WITH ENANTIOSELECTIVE PHARMACOLOGICAL AND TOXICOLOGICAL PROFILE

Larry A. Walker

National Center for Natural Products Research, School of Pharmacy, University of Mississippi, University, MS, United States

9:15 a.m.

NEW BLOOD SCHIZONTOCIDAL 8-AMINOQUINOLINE ANTIMALARIALS

Rahul Jain

National Institute for Pharmaceutical Education and Research (NIPER), Chandigarh, India

Scientific Session 142

Schistosomiasis III – Epidemiology II

Georgetown East

Thursday, December 15 8 – 9:45 a.m.

CHAIR

Charles H. King

Case Western Reserve University, Cleveland, OH, United States

Jake Curtis

Case Western Reserve University, Cleveland, OH, United States

8 a.m.

1036

FACTORS AFFECTING THE TIME TO INFECTION OR REINFECTION WITH *SCHISTOSOMA HAEMATOBIMUM* AMONG SCHOOL-AGED CHILDREN IN COASTAL KENYA: A SURVIVAL ANALYSIS

Sudtida A. Satayathum¹, Eric M. Muchiri², Davy K. Koech³, Christopher C. Whalen¹, **Charles H. King¹**

¹Case Western Reserve University, Cleveland, OH, United States,

²Division of Vector Borne Diseases, Ministry of Health, Nairobi, Kenya,

³Kenya Medical Research Institute, Nairobi, Kenya

8:15 a.m.

1037

A MULTILEVEL ANALYSIS OF SCHISTOSOMIASIS RISK IN COASTAL KENYA

Melissa K. Van Dyke¹, Charles H. King², Eric M. Muchiri³, Mark L. Wilson¹

¹University of Michigan, Ann Arbor, MI, United States, ²Case

Western Reserve University, Cleveland, OH, United States, ³Division

of Vector-Borne Diseases, Ministry of Health, Nairobi, Kenya

8:30 a.m.

1038

RE-INVESTIGATING THE GLOBAL BURDEN OF DISEASE DUE TO *SCHISTOSOMA JAPONICUM*Julia L. Finkelstein¹, Stephen T. McGarvey², Mark D. Schleinitz³¹Department of Community Health, Brown University, Providence, RI, United States, ²International Health Institute, Department of Community Health, Brown University, Providence, RI, United States, ³Rhode Island Hospital, Providence, RI, United States

8:45 a.m.

1039

A LONGITUDINAL STUDY OF *S. JAPONICUM* INFECTION AND PREGNANCY OUTCOMESJennifer F. Friedman¹, Luz P. Acosta², Daria Manalo², Jemaima Yu², Mary Paz Urbina², Gretchen Langdon¹, Surendra Sharma³, Remigio Olveda², Jonathan D. Kurtis¹¹Brown University, Providence, RI, United States, ²Research Institute of Tropical Medicine, Manila, Philippines, ³Women and Infants Hospital, Providence, RI, United States

9 a.m.

1040

DHEAS PREDICTS RESISTANCE TO INFECTION WITH *S. JAPONICUM*Jonathan D. Kurtis¹, Remigio M. Olveda², Gretchen C. Langdon¹, Haiwei Wu¹, Stephen T. McGarvey¹, Archie O. Pablo², Tjalling Leenstra¹, Mario Jiz², Jennifer F. Friedman¹, Luz P. Acosta²¹Brown University, Providence, RI, United States, ²RITM, Manila, Philippines

9:15 a.m.

1041

THE ECOLOGY OF *BIOMPALARIA* SPECIES AND THEIR ROLE IN THE TRANSMISSION OF *SCHISTOSOMA MANSONI* AT BUTIABA ALONG LAKE ALBERT IN WESTERN UGANDAFrancis Kazibwe¹, Boniface Makanga², Chris Rubaire-Akiiki², John H. Ouma³, Curtis Kariuki⁴, Narcis Kabatereine¹, Mark Booth⁵, Russell Stothard⁶, Birgitte Vennervald⁷, Robert Sturrock⁸¹Ministry of Health, Vector Control Division - Uganda, Kampala, Uganda, ²Makerere University, Kampala, Uganda, ³Maseno University, Via Kisumu, Kenya, ⁴Division of Vector Borne Diseases, Nairobi, Kenya, ⁵Cambridge University, Cambridge, United Kingdom, ⁶Natural History Museum, London, United Kingdom, ⁷DBL Institute for Health Research and Development, Copenhagen, Denmark, ⁸London School of Hygiene and Tropical medicine, London, United Kingdom

9:30 a.m.

1042

IMPROVEMENT OF NUTRITIONAL STATUS AFTER TREATMENT OF *SCHISTOSOMA JAPONICUM*-INFECTED CHILDREN, ADOLESCENTS AND YOUNG ADULTSHannah M. Coutinho¹, Luz P. Acosta², Stephen T. McGarvey¹, Blanca Jarilla², Archie Pablo², Li Su¹, Daria L. Manalo², Remigio M. Olveda², Jonathan D. Kurtis¹, Jennifer F. Friedman¹¹International Health Institute, Brown University, Providence, RI, United States, ²Research Institute of Tropical Medicine, Manila, Philippines**Scientific Session 143****Bacteriology III — Respiratory/Other**

Georgetown West

Thursday, December 15

8 – 9:30 a.m.

CHAIR

LeAnne M. Fox

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

Andre Bafica

National Institutes of Health, Bethesda, MD, United States

8 a.m.

1043

A MULTI-VILLAGE PNEUMONIC PLAGUE OUTBREAK - AMPANOTOKANA, MADAGASCAR, JANUARY 2005Larissa Minicucci¹, Hanitra Rahantarisoa², Jennifer Bracher¹, Rodisse Andrianasolo³, Robin Randriamanantsoa³, Mamy Rakotondrainibe², Martin Schriefer¹, Brook Yockey¹, Jean Randriambeloso³, Jacob Kool¹¹Centers for Disease Control and Prevention, Fort Collins, CO, United States, ²Prospect International S.A.R.L., Antananarivo, Madagascar, ³Ministry of Health and Family Planning, Antananarivo, Madagascar

8:15 a.m.

1044

A MULTI-CENTER OBSERVATIONAL STUDY OF CLINICAL OUTCOME FOLLOWING AMOXICILLIN TREATMENT OF NON-SEVERE PNEUMONIA IN CHILDREN 2-59 MONTHS OF AGELeAnne M. Fox¹, Stanley Thula², Tran Tan Tram³, William B. MacLeod¹, Patricia L. Hibberd⁴, Olivier Fontaine⁵, Donald M. Thea¹, Shamim Qazi⁵¹Center for International Health and Development, Boston University School of Public Health, Boston, MA, United States, ²Department of Pediatrics and Child Health, University of Natal Medical School, Durban, South Africa, ³Pediatric Hospital #1, Ho Chi Minh City, Viet Nam, ⁴Clinical Research Institute, Tufts-New England Medical Center, Boston, MA, United States, ⁵Department of Child and Adolescent Health and Development, World Health Organization, Geneva, Switzerland

8:30 a.m.

1045

INCIDENCE AND CLINICAL CHARACTERISTICS OF ACINETOBACTER INFECTION AMONG CHILDREN < 5 Y/O IN A DHAKA URBAN SLUM

W. Abdullah Brooks, Doli Goswami, Anowar Hossain, Korshed Alam, Kamrun Nahar, Dilruba Nasreen, Noor Ahmed, Robert F. Breiman, Stephen Luby

ICDDR,B: Centre for Health and Population Research, Dhaka, Bangladesh

8:45 a.m.

1046

A UNIQUE SUBSET OF HUMANS B CELLS WHICH RESPONDS TO NEISSERIA MENINGITIDIS PORB

Lisa M. Ganley-Leal, Lee M. Wetzler

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

9 a.m.

1047

TOLL-LIKE RECEPTOR (TLR)9 REGULATES TH1 RESPONSES AND COOPERATES WITH TLR2 IN MEDIATING OPTIMAL RESISTANCE TO MYCOBACTERIUM TUBERCULOSIS

Andre Bafica, Charles Scanga, Carl Feng, Alan Sher

National Institutes of Health, Bethesda, MD, United States

9:15 a.m.

1048

EARLY AND LATE INFECTION WITH MYCOBACTERIUM TUBERCULOSIS MODULATES THE IMMUNE RESPONSE PATTERN IN TOXOCARIASIS

Fabiani G. Frantz¹, Rogério S. Rosada², Walter M. Turato¹, Camila M. Peres¹, Célio L. Silva², Lúcia H. Faccioli¹

¹FCFRP/Universidade de São Paulo, Ribeirão Preto, Brazil,

²FMRP/Universidade de São Paulo, Ribeirão Preto, Brazil

(ACMCIP Abstract)

Scientific Session 144

Clinical Tropical Medicine III

International Ballroom East

Thursday, December 15

8 – 9:45 a.m.

CHAIR

Monique Wasunna

Kenya Medical Research Institute, Nairobi, Kenya.

Alan M. Spira

Travel Medicine Center, Beverly Hills, CA, United States

8 a.m.

1049

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

Katherine B. Goodwin, Lone Simonsen

National Institutes of Health, Bethesda, MD, United States

8:15 a.m.

1050

EFFECT OF HIV INFECTION ON RESPONSE TO CHLOROQUINE PLUS SULPHADOXINE-PYRIMETHAMINE TREATMENT FOR UNCOMPLICATED MALARIA IN UGANDAN PATIENTS

Pauline K. Byakika¹, Edward Ddumba¹, Ann Gasasira¹, Grant Dorsey², Moses Kamya¹

¹Makerere University, Kampala, Uganda, ²University of California San Francisco, California, CA, United States

8:30 a.m.

1051

SEVERE MALARIA IN CHILDREN UNDER FIVE YEARS IN AREAS WITH LOW, MODERATE AND HIGH TRANSMISSION INTENSITY IN UGANDA

Richard Idro¹, Judith Aloyo², Lam Mayende³, Edward Bitarakwate⁴, Chandy C. John⁵, George W. Kivumbi²

¹Makerere University/Mulago Hospital, Kampala, Uganda,

²Makerere University, Kampala, Uganda, ³Masafu Health Center,

Busia, Uganda, ⁴Kabale Hospital, Kabale, Uganda, ⁵Case Western

Reserve University, Cleveland, OH, United States

8:45 a.m.

1052

USE OF A REFRACTOMETER TO ASSESS THE QUALITY OF ANTIMALARIAL DRUGS COLLECTED IN THE LAO PDR

Michael D. Green¹, Latsamy Vongsack², Ot Manolin², Sivong Sengaloundeth³, Lampheth Khounsaknalath², Chansapha Pamanivong², Ofelia Villalva Rojas¹, Paul N. Newton⁴

¹US Centers for Disease Control and Prevention, Atlanta, GA,

United States, ²Food and Drug Quality Control Center, Ministry of

Health, Vientiane, Lao People's Democratic Republic, ³Food and

Drug Department, Ministry of Health, Vientiane, Lesotho, ⁴Centre

for Clinical Vaccinology and Tropical Medicine, Churchill Hospital,

University of Oxford, UK, Wellcome Trust-Mahosot Hospital-Oxford

Tropical Medicine Research Collaboration, Vientiane, Lao People's

Democratic Republic

9 a.m.

1053

EFFICACY OF MILTEFOSINE (IMPAVIDO®) FOR MUCOCUTANEOUS LEISHMANIASIS IN BOLIVIA

Jaime Soto¹, Julia Toledo¹, Rolando Parra², Margarita Balderrama², Jaime Rea², Ana Gomez³, Jaime Ardiles⁴, Paula Soto¹, Luis Valda⁴, Herbert Sindermann⁵, Gerlind Anders⁶, Jurgen Engel⁶, Jonathan Berman⁷

¹FADER / Cibic, Bogotá, Colombia, ²Proyecto Oscar, Palos Blancos, Bolivia, ³Hospital Local, Palos Blancos, Bolivia, ⁴Hospital de Clinicas, La Paz, Bolivia, ⁵Zentaris AG, Frankfurt, Germany, ⁶Zentaris, AG, Frankfurt, Germany, ⁷ABF, Rockville, MD, United States

9:15 a.m.

1054

A PHASE II DOSE-RISING STUDY OF SITAMAQUINE FOR THE TREATMENT OF VISCERAL LEISHMANIASIS IN KENYA

Monique Wasunna¹, Juma R. Rashid¹, Jane Mbu¹, George Kirigi¹, Hudson Lodenyo¹, Antony J. Sabin², John Horton³, J. Mark Felton²

¹Center for Clinical Research, Kenya Medical Research Institute, Nairobi, Kenya, ²GlaxoSmithKline, Greenford, United Kingdom, ³Liverpool University, Liverpool, United Kingdom

9:30 a.m.

1055

RANDOMIZED PLACEBO CONTROL STUDY WITH ORAL PENTOXIFYLLINE COMBINED WITH PENTAVALENT ANTIMONY IN MUCOSAL LEISHMANIASIS

Paulo Machado¹, Helio Lessa¹, Marcus Lessa¹, Luis Henrique Guimarães¹, Amélia Ribeiro Jesus¹, Warren D. Johnson², **Edgar Marcelino Carvalho**¹

¹Federal University of Bahia, Salvador, Brazil, ²Cornell University, New York, NY, United States

Coffee Break

Exhibit Hall

Thursday, December 15

9:45 – 10:15 a.m.

Scientific Session 145**Mosquitoes – Biochemistry, Molecular Biology and Molecular Genetics II**

Monroe East

Thursday, December 15

10:15 – Noon

CHAIR

Zach N. Adelman

University of California Irvine, Irvine, CA, United States

Stephen L. Dobson

University of Kentucky, Lexington, KY, United States

10:15 a.m.

1056

IMPACT OF PLASMODIUM INFECTION ON THE FITNESS OF TRANSGENIC MOSQUITOES IMPAIRED FOR MALARIA TRANSMISSION

Mauro T. Marrelli, Chaoyang Li, Marcelo Jacobs-Lorena
Johns Hopkins University, Baltimore, MD, United States

10:30 a.m.

1057

POPULATION DYNAMICS OF HERVES TRANSPOSABLE ELEMENT IN ANOPHELES GAMBIAE

Ramanand A. Subramanian¹, Channa Aluvihare¹, Edward Peckham¹, Wilhelmine Meeraus², Peter Atkinson³, Christopher Curtis², Derek Charlwood⁴, David A. O'Brochta¹

¹University of Maryland Biotechnology Institute, College Park, MD, United States, ²London School of Tropical Medicine and Hygiene, London, United Kingdom, ³University of California, Riverside, CA, United States, ⁴Danish Bilharziasis Laboratory, Charlottenlund, Denmark

10:45 a.m.

1058

FEMALE GERMLINE-SPECIFIC EXPRESSION OF TRANSGENES IN AE. AEGYPTI USING THE ENDOGENOUS NANOS CONTROL SEQUENCES

Zach N. Adelman¹, Nijole Jasinskiene², Sedef Onal², Ken E. Olson³, Anthony A. James²

¹Virginia Tech, Blacksburg, VA, United States, ²University of California, Irvine, Irvine, CA, United States, ³Colorado State University, Ft. Collins, CO, United States

11 a.m.

1059

PROGRESS TOWARD MANIPULATING MOSQUITO DISEASE VECTOR POPULATIONS VIA RELEASES OF WOLBACHIA INFECTED MOSQUITOES**Stephen L. Dobson**

University of Kentucky, Lexington, KY, United States
(ACMCIP Abstract)

11:15 a.m.

1060

GENERATION OF ARTIFICIAL WOLBACHIA INFECTIONS IN AEDES MOSQUITO AND MANIPULATION OF POPULATION WITH CYTOPLASMIC INCOMPATIBILITY

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

University of Kentucky, Lexington, KY, United States

11:30 a.m.

1061

CHARACTERIZATION OF MOSQUITO *OSKAR* ORTHOLOGOUS GENES FOR THE DEVELOPMENT OF A TRANSPOSABLE ELEMENT-BASED GENE DRIVE MECHANISM

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

11:45 a.m.

1062

DEVELOPING RNAI-BASED TRANSGENIC RESISTANCE AGAINST DENGUE-2 VIRUS IN *Aedes aegypti*

Alexander W. Franz¹, Irma Sanchez-Vargas¹, Zach N. Adelman², Emily A. Travanty¹, Carol D. Blair¹, Barry J. Beaty¹, Anthony A. James², Kenneth E. Olson¹
¹Colorado State University, Fort Collins, CO, United States,
²University of California, Irvine, Irvine, CA, United States

Scientific Session 146

Malaria — Biology and Pathogenesis III

Monroe West

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

CHAIR

Sanjai Kumar

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

Rick Fairhurst

National Institutes of Health, Rockville, MD, United States

10:15 a.m.

1063

HEMOGLOBIN C PHENOTYPE ON A NORMAL ERYTHROCYTE BACKGROUND

Graciela Oстера, Rick Fairhurst, Nathaniel Brittain, Thomas Wellem
National Institutes of Health, Rockville, MD, United States
(ACMCIP Abstract)

10:30 a.m.

1064

CLINICAL AND HAEMATOLOGIC INDICES IN *PLASMODIUM FALCIPARUM*-INFECTED CHILDREN WITH THE SICKLE-CELL HAEMOGLOBIN GENE IN WESTERN KENYA

Richard O. Otieno¹, John Michael Ong'echa¹, Collins Ouma¹, Tom Were¹, Chris Keller², E. N. Waindi³, John M. Vulule⁴, Douglas J. Perkins²

¹University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, ²Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, ³Maseno University, Kisumu, Kenya, ⁴Centre for Vector Biology and Control Research, Kisumu, Kenya
(ACMCIP Abstract)

10:45 a.m.

1065

COMPLEMENT RECEPTOR 1 POLYMORPHISMS ASSOCIATED WITH RESISTANCE TO SEVERE MALARIA IN KENYA

Vandana Thathy¹, Joann M. Moulds², Bernard Guyah¹, Walter Otieno¹, Jose A. Stoute³

¹US Army Medical Research Unit-Kenya and the Kenya Medical Research Institute, NAIROBI, Kenya, ²LifeShare Blood Centers, Shreveport, LA, United States, ³The Walter Reed Army Institute of Research, Silver Spring, MD, United States

11 a.m.

1066

ASSOCIATION OF CO-EXISTING ERYTHROCYTE POLYMORPHISMS, OVALOCYTOSIS AND HEMOGLOBIN LEVELS IN MOROBE, PAPUA NEW GUINEA

Sheral S. Patel¹, Svetlana Katsnelson², John C. Reeder³, James W. Kazura²

¹Eastern Connecticut Health Network, Manchester, CT, United States, ²Case Western Reserve University, Cleveland, OH, United States, ³Papua New Guinea Institute of Medical Research, Goroka, Papua New Guinea
(ACMCIP Abstract)

11:15 a.m.

1067

DISTINCT HEMATOLOGICAL CHARACTERISTICS OF MALARIAL ANEMIA IN YOUNG CHILDREN PRESENTING AT A RURAL DISTRICT HOSPITAL IN WESTERN KENYA

John Michael Ong'echa¹, Chris Keller², Collins Ouma¹, Tom Were¹, Richard Otieno¹, John M. Vulule³, Richard D. Day⁴, Sandra S. Kaplan⁵, Douglas J. Perkins²

¹University of Pittsburgh/KEMRI Laboratories of Parasitic and Viral Diseases, Kisumu, Kenya, ²Department of Infectious Diseases and Microbiology, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, ³Centre for Vector Biology and Control Research, Kisumu, Kenya, ⁴Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA, United States, ⁵University of Pittsburgh Medical Center, Pittsburgh, PA, United States

11:30 a.m.

1068

CHANGES IN HUMAN GENE EXPRESSION DURING UNCOMPLICATED *PLASMODIUM FALCIPARUM* MALARIA**James M. Colborn**¹, Joni Ylostalo¹, Ousmane A. Koita², Ousmane Cissé², Donald J. Krogstad¹¹Tulane University, New Orleans, LA, United States, ²University of Bamako, Bamako, Mali

(ACMCIP Abstract)

11:45 a.m.

1069

VARIATION OF *P. FALCIPARUM* IN VIVO TRANSCRIPTOMES IN PATIENTS WITH MILD AND SEVERE DISEASE**Johanna Daily**¹, Karine G. Le Roch², Dauoda Ndiaye³, Yingyao Zhou², Omar Ndir³, Soulyemane Mboup³, Elizabeth Winzeler⁴, Dyann Wirth¹¹Harvard School of Public Health, Boston, MA, United States, ²Genomics Institute of the Novartis Research Foundation, San Diego, CA, United States, ³Faculty of Medicine and Pharmacy, Cheikh Anta Diop University, Dakar, Senegal, ⁴Department of Cell Biology, The Scripps Research Institute, La Jolla, CA, United States**Scientific Session 147****Flavivirus V***Lincoln East*

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

CHAIR

Rebeca Rico-Hesse*Southwest Foundation for Biomedical Research, San Antonio, TX, United States***Timothy H. Burgess***Naval Medical Research Center, Silver Spring, MD, United States*

10:15 a.m.

1070

POTENTIAL DIFFERENCES IN SIGN RECEPTOR UTILIZATION AND NEUTRALIZATION BY AMERICAN AND ASIAN GENOTYPE DENGUE-2 VIRUSES

Nicole C Martin, Tadeusz Kochel, Jorge Pardo, Kevin R Porter, Timothy H Burgess

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

10:30 a.m.

1071

DC-SIGN NEUTRALIZATION ASSAY DEMONSTRATES HIGH SEROTYPE SPECIFICITY WITH PAIRED SERA FROM PRIMARY DENGUE INFECTIONSStephen J. Thomas¹, Jorge Pardo², Nicole C. Martin², Timothy Endy¹, Sharone Green³, Kevin R. Porter², Timothy H. Burgess²¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Naval Medical Research Center, Silver Spring, MD, United States, ³University of Massachusetts Medical School, Worcester, MA, United States

10:45 a.m.

1072

CTL SPECIFIC FOR A NOVEL EPITOPE IN THE DENGUE 1 NS5 PROTEIN ARE DIFFERENTIALLY ACTIVATED BY DENGUE 2 AND DENGUE 3 VARIANT EPITOPES WHICH FUNCTION AS ALTERED PEPTIDE LIGANDS**Allison Imrie**¹, Janet Meeks¹, Zhengshan Zhao¹, Alexandra Gurary¹, Paul Kitsutani², Paul Effler²¹University of Hawaii at Manoa, Honolulu, HI, United States, ²Hawaii State Department of Health, Honolulu, HI, United States

11 a.m.

1073

JAPANESE ENCEPHALITIS VIRUS ENTERS C6/36 MOSQUITO CELLS THROUGH V-ATPASE-DEPENDENT CLATHRIN-MEDIATED ENDOCYTOSISWei-Chun Chai, **Wei-June Chen***Chang Gung University, Tao-Yuan, Taiwan Republic of China*

11:15 a.m.

1074

GENETIC AND BIOLOGICAL DETERMINANTS OF VIRAL DISSEMINATION FROM THE MOSQUITO MIDGUT: YELLOW FEVER VIRUS IN *Aedes aegypti***Kate L. McElroy**, Konstantin A. Tsetsarkin, Yvette A. Girard, Charles McGee, Dana L. Vanlandingham, Stephen Higgs
University of Texas Medical Branch, Galveston, TX, United States

11:30 a.m.

1075

PHYLOGENETIC ANALYSIS BASED ON THE ENVELOPE AND NS5 NUCLEOTIDE SEQUENCES OF AN ILHEUS VIRUS ISOLATE FROM A FEBRILE HUMAN PATIENT IN ECUADOR**Barbara W. Johnson**¹, Vidal Felices², Cristhopher Cruz², Carolina Guevara², James Olson², Tadeusz Kochel²¹Division of Vector-Borne Infectious Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States, ²U.S. Naval Medical Research Center Detachment, Lima, Peru

11:45 a.m.

1076

VIREMIA, MORBIDITY AND MORTALITY OF *P. LEUCOPUS* FOLLOWING POWASSAN VIRUS INOCULATION

Gregory D. Ebel, Kristen A. Bernard, Laura D. Kramer
Wadsworth Center, Slingerlands, NY, United States

Scientific Session 148

Helminths II

Lincoln West

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

CHAIR

Mark Eberhard

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

Peter M. Schantz

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

10:15 a.m.

1077

VISCERAL LARVA MIGRANS ASSOCIATED WITH INGESTION OF EARTHWORM: CLINICAL EVOLUTION IN AN ADOLESCENT PATIENT

Peter M. Schantz¹, Antonella Cianferoni², Lynda Schneider², Daniel Brown², Leanne Fox³

¹*Division of Parasitic Diseases, Centers For Disease Control and Prevention, Atlanta, GA, United States*, ²*Division of Immunology, Children's Hospital, Boston, MA, United States*, ³*Center For International Health and Development, Boston University School of Public Health, Boston, MA, United States*

10:30 a.m.

1078

NO ADDITIONAL ADVERSE BIRTH EVENTS FOLLOWING MEBENDAZOLE ADMINISTRATION IN PREGNANCY

Theresa W. Gyorkos¹, Martin Casapia², Renee Larocque¹, Eduardo Gotuzzo³

¹*McGill University, Montreal, PQ, Canada*, ²*Asociacion Civil Selva Amazonica, Iquitos, Peru*, ³*Universidad Peruana Cayetano Heredia, Lima, Peru*

10:45 a.m.

1079

POPULATION-BASED SURVEY OF INTESTINAL HELMINTH INFECTIONS WITH A FOCUS ON TAENIASIS AMONG RESIDENTS OF EL PASO, TEXAS AND CIUDAD JUAREZ, MEXICO

Casey E. Barton¹, Jack Bristol², Lillian Mayberry³, Victor Cardenas², Karen Snowden⁴

¹*University of Texas Health Science Center School of Public Health, Houston, TX, United States*, ²*University of Texas School of Public Health, El Paso Regional Campus, El Paso, TX, United States*, ³*University of Texas El Paso, El Paso, TX, United States*, ⁴*Texas A&M University College of Veterinary Medicine, College Station, TX, United States*

11 a.m.

1080

CYSTICERCOSIS HOTSPOTS SURROUNDING *TAENIA SOLIUM* TAPEWORM CARRIERS

Andres G. Lescano¹, Hector H. Garcia¹, Robert H. Gilman², M. Claudia Guezala³, Victor C. Tsang⁴, Cesar M. Gavidia³, Silvia Rodriguez⁵, Lawrence H. Moulton², Justin A. Green⁶, Carmen Taquiri¹, Armando E. Gonzalez³

¹*Universidad Peruana Cayetano Heredia, Lima, Peru*, ²*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*, ³*Universidad Nacional Mayor de San Marcos, Lima, Peru*, ⁴*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁵*Instituto de Ciencias Neurologicas, Lima, Peru*, ⁶*Imperial College, London, United Kingdom*

11:15 a.m.

1081

COPROANTIGEN DETECTION FOR EARLY AND ACCURATE ASSESSMENT OF TAENIASIS TREATMENT

Javier A. Bustos¹, Silvia Rodriguez¹, Juan Jimenez¹, Andres G. Lescano², Luz Moyano¹, Guillermo Gonzalez¹, James C. Allan³, Armando E. Gonzalez⁴, Robert H. Gilman¹, Victor C.W. Tsang⁵, Hector H. Garcia¹, for the Cysticercosis Working Group in Peru⁶

¹*Departamento de Microbiologia, Universidad Peruana Cayetano Heredia, Lima, Peru*, ²*Facultad de Salud Publica y Administracion, Universidad Peruana Cayetano Heredia, Lima, Peru*, ³*Department of Biological Sciences, University of Salford, Salford, United Kingdom*, ⁴*School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru*, ⁵*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁶*Universidad Peruana Cayetano Heredia, Lima, Peru*

11:30 a.m.

1082

HUMAN TAENIASIS: DIAGNOSIS AND ASSESSMENT

Juan Jimenez¹, Silvia Rodriguez¹, Min Z. Levine², Humberto Zamora¹, Yesenia Castillo¹, James Allan³, Armando E. Gonzalez⁴, Victor W. Tsang², Robert H. Gilman¹, Hector H. Garcia¹, For Cysticercosis Working Group in Peru⁵

¹Departamento de Microbiología, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Division of Parasitic Diseases, Centers for Disease Control and Prevention, Atlanta, GA, United States,

³Department of Biological Sciences, University of Salford, Salford, United Kingdom, ⁴School of Veterinary Medicine, Universidad de San Marcos, Lima, Peru, ⁵Universidad Peruana Cayetano Heredia, Lima, Peru

(ACMCIP Abstract)

11:45 a.m.

1083

DETECTION OF TAENIA SOLIUM TAENIASIS BY MICROSCOPY, COPROANTIGENS AND SEROLOGY USING A RECOMBINANT ANTIGEN

Mary Luz Rodriguez¹, Silvia Rodriguez¹, Luz M. Moyano¹, Guillermo Gonzalvez¹, Min Levine², Victor CW Tsang², Armando E. Gonzalez³, Robert H. Gilman⁴, James C. Allan⁵, Humberto Zamora⁴, Carmen Taquiri⁴, Hector H. Garcia⁴, for the Cysticercosis Working Group in Peru⁶

¹Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Division of Parasitic Diseases, Centers for Disease and Control and Prevention, Atlanta, GA, United States, ³School of Veterinary Medicine, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁴Department of Microbiology, Universidad Peruana Cayetano Heredia, Lima, Peru, ⁵Department of Biological Sciences, University of Salford, Salford, United Kingdom, ⁶Universidad Peruana Cayetano Heredia, Lima, Peru

Scientific Session 149**Malaria – Vaccines II**

Jefferson East

Thursday, December 15

10:15 a.m. – Noon

CHAIR

Alassane Dicko

MRTC/DEAP/FMPOS, Bamako, Mali

Ann Stewart

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

10:15 a.m.

1084

DOUBLE-BLIND, RANDOMIZED, CONTROLLED, PHASE 1 STUDY OF THE AMA1-C1/ALHYDROGEL® VACCINE FOR PLASMODIUM FALCIPARUM MALARIA, IN SEMI-IMMUNE MALIAN ADULTS

Alassane Dicko¹, David J. Diemert², Issaka Sagara¹, Moussa Sogoba¹, Mohamed B. Niamebele¹, Mahamadoun H. Assadou¹, Ousmane Guindo¹, Beh Kamate¹, Mounirou Baby¹, Mady Sissoko¹, Gregory Mullen², Mahamadou Sissoko¹, Siddhartha Mahanty², Mahamadou A. Thera¹, Amagana Dolo¹, Carole Long², Dapa A. Diallo¹, Louis H. Miller², Allan Saul², Ogobara K. Doumbo¹

¹Malaria Research and Training Center, Bamako, Mali, ²National Institute of Allergy and Infectious Diseases, Rockville, MD, United States

10:30 a.m.

1085

AMA1-C1/ALHYDROGEL® VACCINE FOR PLASMODIUM FALCIPARUM MALARIA INDUCES CROSS-REACTIVE ANTIBODIES TO A NON-VACCINE AMA1 ALLELE IN MALIAN ADULTS

David J. Diemert¹, Alassane Dicko², Amagana Dolo², Moussa Sogoba², Issaka Sagara², Andrew Orcutt¹, Dapa A. Diallo², Siddhartha Mahanty¹, Louis H. Miller¹, Carole Long¹, Allan Saul¹, Ogobara K. Doumbo², Gregory Mullen¹

¹National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ²Malaria Research and Training Center, Bamako, Mali

10:45 a.m.

1086

DEVELOPMENT OF A SPOOROZITE CHALLENGE MODEL FOR PLASMODIUM VIVAX IN HUMAN VOLUNTEERS

Olga L. Fernandez¹, Maria R. Manzano², Bermans Murrain¹, Pedro Blanco¹, Felipe Zamora¹, Alejandro Jordan¹, Ricardo Palacios³, Juan Diego Velez⁴, Arevalo-Herrera Myriam¹, Sócrates Herrera¹

¹Malaria Vaccine and Drug Testing Center, Cali, Colombia,

²Immunology Institute, Cali, Colombia, ³Praca Marisa Marques-

University Sao Pablo, Sao Pablo, Brazil, ⁴Fundación Clínica Valle de Lili, Cali, Colombia

11 a.m.

1087

P. FALCIPARUM MULTI-ANTIGEN ADENOVIRUS VECTORED-VACCINE IS IMMUNOGENIC IN BOTH HOMOLOGOUS AND HETEROLOGOUS BOOST REGIMENS IN A YUCATAN SWINE MODEL OF MALARIA

Noelle B. Patterson¹, Joseph J. Campo¹, Maureen E. Stefaniak¹, Joseph Bruder², Keith Limbach¹, Greg Mullen³, C. Richter King², Aaron P. Miles³, Louis H. Miller³, Carole Long³, Allan Saul³, Denise L. Doolan¹

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

²GenVec, Inc., Gaithersburg, MD, United States, ³National Institutes of Health Malaria Vaccine Development Branch (MVDB), Rockville, MD, United States

11:15 a.m.

1088

THE EFFECT OF IMMUNIZATION INTERVAL ON THE IMMUNOGENICITY AND PROTECTIVE EFFICACY OF A MULTISTAGE *PLASMODIUM KNOWLESI* DNA PRIME/POXVIRUS BOOST VACCINE IN CYNOMOLGUS MONKEYS

Walter R. Weiss¹, George Jiang¹, Solomon Conteh¹, Nannette Parra², Nancy O. Richie¹, Anais Valencia¹, Priti Singh¹, Keith Limbach¹, Daniel J. Carucci³, Martha Sedegah¹, Gary T. Brice⁴, Denise L. Doolan¹, **Thomas L. Richie¹**

¹Naval Medical Research Center Malaria Program, Silver Spring, MD, United States, ²Armed Forces Radiobiology Research Institute, Bethesda, MD, United States, ³Foundation for the National Institutes of Health, Bethesda, MD, United States, ⁴Naval Medical Research Unit # 2, Jakarta, Indonesia

(ACMCIP Abstract)

11:30 a.m.

1089

HETEROLOGOUS PRIME-BOOST IMMUNIZATION WITH EPIDERMAL GENE GUN ADMINISTERED *PLASMODIUM FALCIPARUM* CIRCUMSPOROZOITE PROTEIN (CSP) ENCODING DNA AND INTRAMUSCULAR RTS,S/AS02A IN RHESUS MONKEYS GENERATES ROBUST CUTANEOUS DELAYED-TYPE HYPERSENSITIVITY RESPONSES AGAINST CSP C TERMINUS

Douglas S. Walsh¹, Montip Gettayacamin², Jeffrey A. Lyon¹, Wolfgang W. Leitner³, Ann Stewart¹, Sathit Pichyangkul², Panita Gosi², Pongsri Tongtawe², Carolyn A. Holland¹, Nelly Kolodny¹, Joe Cohen⁴, Gerald Voss⁴, Ripley Ballou⁴, D. Gray Heppner, Jr.¹, D. Gray Heppner¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²US Army Medical Component, Armed Forces Research Institute of Medical Sciences (AFRIMS), Bangkok, Thailand, ³Dermatology Branch, National Institutes of Health, Bethesda, MD, United States, ⁴GlaxoSmithKline Biologicals, Rixensart, Belgium

11:45 a.m.

1090

HETEROLOGOUS PRIME-BOOST WITH ADENOVIRUS35-VECTORED CS AND RECOMBINANT PROTEIN RTS,S/AS01B GREATLY ENHANCES IMMUNE RESPONSES TO *P. FALCIPARUM* CS

V. Ann Stewart¹, Shannon M. McGrath¹, Maria Grazia Pau², Pascal Mettens³, Patrice Dubois³, Jerome H. Custers², Marie-Ange Demoitié³, Olga Ophorst², Joseph Shott¹, Babak Bayat³, Marie-Noelle Donner³, Marie-Claude Dubois³, Jaap Goudsmit², Joe Cohen³, D. Gray Heppner¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Cruceff Holland BV, Leiden, Netherlands, ³GlaxoSmithKline Biologicals, Rixensart, Belgium

(ACMCIP Abstract)

Symposium 150

8-Aminoquinolines: Past, Present and Future II

Jefferson West

Thursday, December 15

10:15 a.m. – Noon

8-Aminoquinolines are an important class of anti-infective drugs with promising utility against malaria, leishmaniasis and *Pneumocystis carinii* pneumonia (PCP). Their potential use in coccidiosis and trypanosomiasis has also been suggested. Primaquine has been the only drug available for treatment of relapsing malaria, while a few other 8-aminoquinolines are currently under development. 8-Aminoquinolines also show gametocytocidal and sporontocidal actions indicating their promising use in interruption of malaria transmission. Their use in chemoprophylaxis against malaria infection has also been evaluated. The most important safety concerns with these drugs are methemoglobinemia and hemolytic events, particularly in populations with glucose 6-phosphate dehydrogenase deficiencies. Biotransformation mechanisms, which appear to be central to anti-infective and hematological toxicities, are still not well understood. Recent studies have shown potential for development of stereoselective analogs with better efficacy and reduced toxicity. A symposium to discuss the critical issues related to their efficacy, toxicity and recent preclinical and clinical advancements would be a useful forum for advancing the development and utility of this class. This session will focus on use and development of 8-aminoquinolines for treatment of emerging and neglected infectious diseases and also on the issues related to their toxicity and metabolism.

CHAIR

Babu L. Tekwani

University of Mississippi, University, MS, United States

Simon Croft

DNDi, Geneva, Switzerland

Larry Walker

University of Mississippi, University, MS, United States

10:15 a.m.

INTRODUCTION: 8-AMINOQUINOLINES IN TREATMENT OF EMERGING AND NEGLECTED INFECTIOUS DISEASES

Simon Croft

DNDi, Geneva, Switzerland

10:30 a.m.

SITAMAQUINE — SO WHERE ARE WE?

Mark Felton

GlaxoSmithKline, Middlesex, United Kingdom

11 a.m.

G6PDH DEFICIENCY: IMPLICATIONS IN PUBLIC HEALTH AND DRUG DEVELOPMENT

Colin Ohrt

Walter Reed Army Institute of Research, Germantown, MD, United States

11:30 a.m.**METABOLISM AND TOXICITY OF 8-AMINOQUINOLINES — SOME NEW DIRECTIONS**

Babu L. Tekwani

*University of Mississippi, University, MS, United States***Symposium 151****Arthropod Salivary Gland Proteins and Their Potential as Vaccine Targets***Georgetown East*

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

The salivary glands of numerous arthropod vectors of disease contain potent factors that modulate blood flow and/or inflammation/immunity. The vasomodulatory factors help the vector obtain a blood meal. The immunomodulatory factors can dramatically affect the immune response of the host and enhance pathogen transmission by arthropods. It has been observed that vaccinating against components of the salivary glands or gut of arthropods can protect the host from infestation with the arthropod or infection with pathogens transmitted by arthropods. These results suggest that multi-subunit vaccines that target the pathogen itself as well as arthropod vaccine targets may be the most effective at controlling arthropods and arthropod-borne pathogens since these vaccines would target several facets of the life cycle of the pathogens and their vectors.

CHAIR

Richard G. Titus*Colorado State University, Fort Collins, CO, United States***Jesus G. Valenzuela***National Institutes of Health, Rockville, MD, United States***10:15 a.m.****ARTHROPOD SALIVARY GLAND IMMUNOMODULATORS AND ANTI-ARTHROPOD VACCINES — OVERVIEW AND POTENTIAL**

Richard G. Titus

*Colorado State University, Ft. Collins, CO, United States***10:45 a.m.****FUNCTIONAL GENOMIC APPROACHES TO SEARCH FOR VECTOR-BASED VACCINES**

Jesus G. Valenzuela

*National Institutes of Health, Rockville, MD, United States***11:10 a.m.****SALIVARY GLAND PROTEINS AND THE IMMUNOLOGY OF THE TICK-HOST-PATHOGEN INTERFACE**

Stephen Wikel

*University of Connecticut Health Center, Farmington, CT, United States***11:35 a.m.****MOSQUITO-HOST INTERACTIONS AND VIRUS TRANSMISSION**

Stephen Higgs

*University of Texas Medical Branch, Galveston, TX, United States***Symposium 152****Chikungunya Virus — A New “Emerging” Pathogen***Georgetown West*

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

Chikungunya virus (CHIKV) is a member of the genus Alphavirus in the family Togaviridae. The virus was first isolated by Ross in 1953 during the epidemic of a dengue-like illness that occurred in Newala district of Tanzania. Since that initial outbreak, CHIKV virus has continued to cause sporadic epidemics in Africa and Southeast Asia. However, within the past five years, CHIKV outbreaks have become more frequent, affecting India, Indonesia, Lamu and Mombasa in Kenya, the Indian Ocean Islands of Comoros and Mauritius, and most recently, areas in Somalia. This symposium aims to bring awareness to the significant problems arising due to CHIKV by describing the recent resurgence of the virus and implications for future surveillance and control programs.

CHAIR

Robert F. Breiman*Centers for Disease Control and Prevention Kenya, Kisumu, Kenya***Ann M. Powers***Centers for Disease Control and Prevention, Fort Collins, CO, United States***10:15 a.m.****HISTORICAL PERSPECTIVE OF CHIKUNGUNYA VIRUS EPIDEMIOLOGY AND OUTBREAKS**

Donald S. Burke

*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States***10:35 a.m.****EPIDEMIOLOGIC FINDINGS FROM RECENT MAJOR OUTBREAKS OF CHIKUNGUNYA VIRUS IN EAST AFRICA**

Kibet Sergon

*Field Epidemiology and Laboratory Training Program, Kenya Ministry of Health, Nairobi, Kenya***11 a.m.****ENTOMOLOGICAL INVESTIGATIONS OF A CHIKUNGUNYA VIRUS OUTBREAK IN THE UNION OF THE COMOROS**

Rosemary C. Sang

Center for Virologic Research, Kenya Medical Research Institute, Nairobi, Kenya

11:25 a.m.

THE REEMERGENCE OF CHIKUNGUNYA VIRUS IN INDONESIA

Andrew L. Corwin
US Naval Medical Research Unit No. 2, Jakarta, Indonesia

11:45 a.m.

THE FUTURE OF CHIKUNGUNYA VIRUS: PREVENTION, CONTROL, AND POSSIBILITIES

Barry R. Miller
Centers for Disease Control and Prevention, Division of Vector-Borne Infectious Diseases, Fort Collins, CO

Scientific Session 153

Clinical Tropical Medicine IV

International Ballroom East

Thursday, December 15 10:15 - 11:45 a.m.

CHAIR

Parsotam R. Hira

Kuwait University, Kuwait City, Kuwait

Eli Schwartz

Sheba Medical Center, Tel hashomer, Israel

10:15 a.m.

1091

SCHISTOSOMIASIS IN RETURNING ISRAELI TRAVELERS

Eli Schwartz¹, Eyal Meltzer¹, Galit Artom¹, Etti Marva², Mark Assous²

¹Sheba Medical Ctr, Tel hashomer, Israel, ²Ministry of Health, Jerusalem, Israel

10:30 a.m.

1092

DEC ALONE VERSUS DEC PLUS ALBENDAZOLE FOR CONTROL OF BANCROFTIAN FILARIASIS IN PAPUA NEW GUINEA

Moses J. Bockarie¹, Livingstone Tavul¹, Will Kastens¹, Daniel J. Tisch², James W. Kazura²

¹PNGIMR, Madang, Papua New Guinea, ²Case Western Reserve University, Cleveland, OH, United States

10:45 a.m.

1093

FLUID RESUSCITATION FOR DENGUE SHOCK SYNDROME — THE EVIDENCE FROM FORMAL RANDOMISED AND BLINDED INTERVENTION TRIALS IN VIETNAM

Bridget Wills¹, Nguyen M. Dung², Ha T. Loan², Dong T. Tam², Tran T. Thuy², Le T. Minh², Tran V. Diet², Nguyen T. Hao², Nguyen V. Chau², Kasia Stepniewska¹, Nicholas J. White¹, Jeremy J. Farrar¹

¹Oxford University Clinical Research Unit, Ho Chi Minh City, Viet Nam, ²Hospital for Tropical Diseases, Ho Chi Minh City, Viet Nam

11 a.m.

1094

EFFECT OF MANNITOL AS ADJUNCT THERAPY ON THE CLINICAL OUTCOME OF CHILDHOOD CEREBRAL MALARIA IN MULAGO HOSPITAL: A RANDOMISED CLINICAL TRIAL

Beatrice E. Namutangula, James K. Tumwine, Grace Ndeezi, Justus S. Byarugaba
Makerere University, Kampala, Uganda

11:15 a.m.

1096

PLACENTAL MALARIA INCREASES RESISTANCE OF PRIMIGRAVID OFFSPRING TO P. FALCIPARUM PARASITEMIA, BUT DECREASES RESISTANCE OF MULTIGRAVID OFFSPRING

Theonest K. Mutabingwa¹, **Melissa C. Bolla**², Jin-Long Li², Gonzalo J. Domingo², Xiaohong Li³, Michal Fried², Patrick E. Duffy²

¹Muheza Designated District Hospital, Muheza-Tanga, Tanzania, United Republic of, ²Seattle Biomedical Research Institute, Seattle, WA, United States, ³Fred Hutchinson Cancer Research Center, Seattle, WA, United States

11:30 a.m.

1097

EPIDEMIOLOGY OF MICROSPORIDIA IN PERUVIAN CHILDREN

Vitaliano A. Cama¹, Ynes R. Ortega², Robert H. Gilman³, Lilia Cabrera⁴, Sara Crawford⁵, Manuela Verastegui⁴, Hector H. Garcia⁴, Caryn Bern⁵, Lihua Xiao⁵

¹Centers for Disease Control-AREF, Atlanta, GA, United States, ²University of Georgia, Griffin, GA, United States, ³Johns Hopkins University, Baltimore, MD, United States, ⁴UPCH, Lima, Peru, ⁵Centers for Disease Control and Prevention, Atlanta, GA, United States

(ACMCIP Abstract)

Certificate Exam Committee Meeting

Edison

Thursday, December 15 11:30 a.m. - 4 p.m.

ASTMH 54th Annual Meeting Adjourns

Thursday, December 15

Noon

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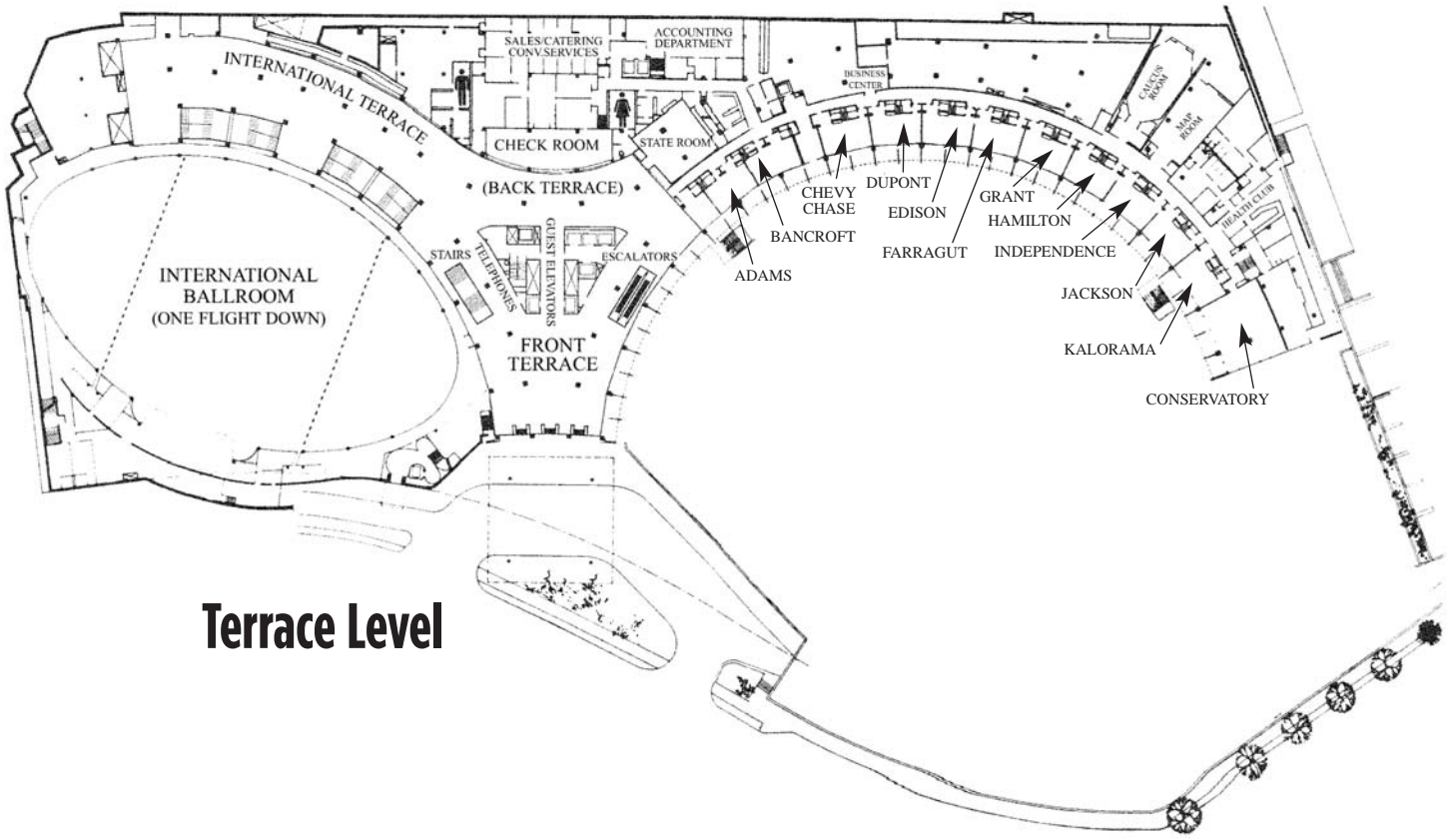
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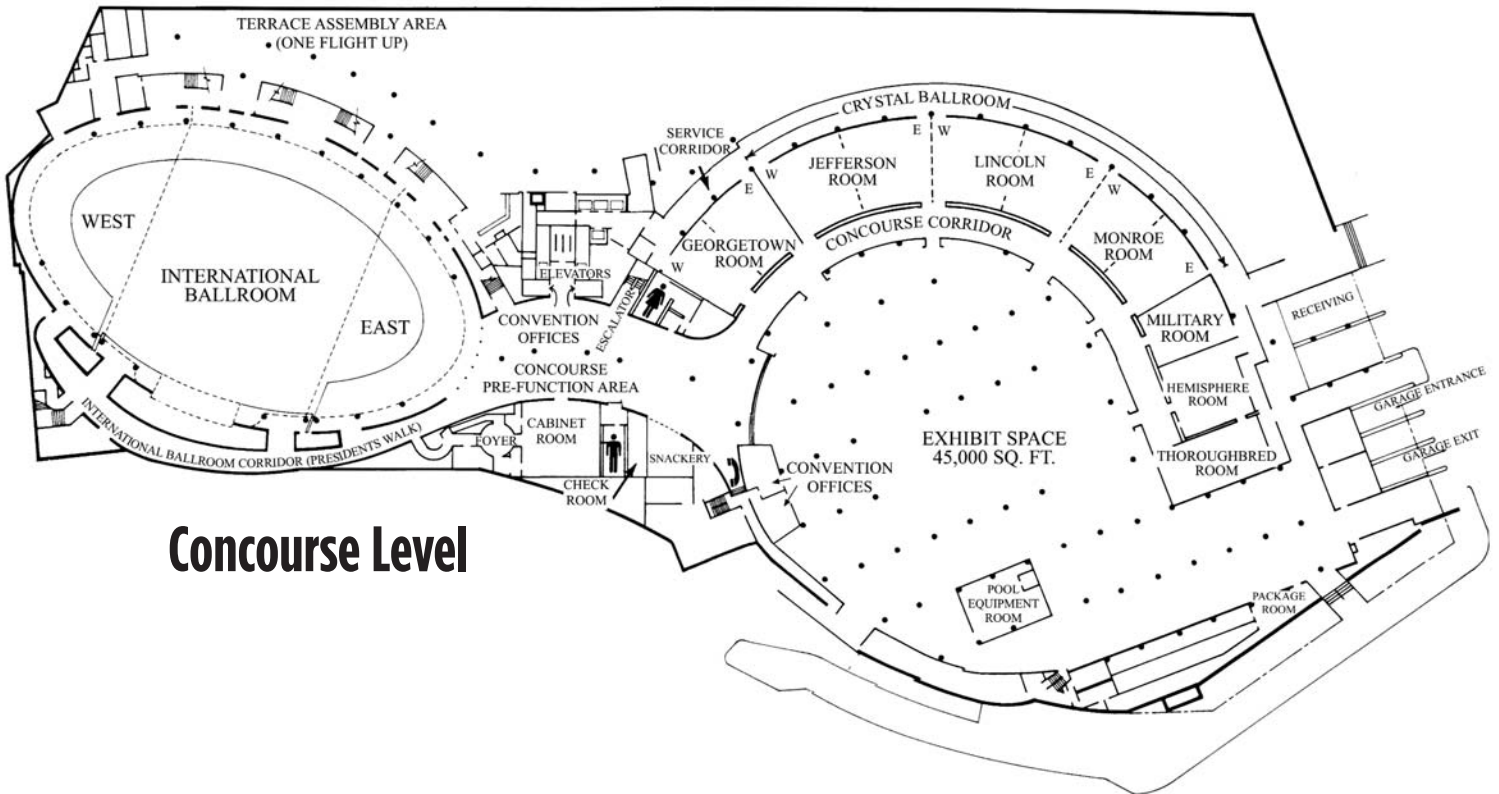
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Hotel Floorplan



Terrace Level



Concourse Level