

ASTMH



AMERICAN SOCIETY OF TROPICAL MEDICINE & HYGIENE
ADVANCING GLOBAL HEALTH SINCE 1903

Late Breaker Abstracts Presentation Schedule

Atlanta Marriott Marquis

Atlanta, Georgia USA

65th Annual Meeting



Table of Contents

Page Number

Oral Presentations	
Late Breaker Abstract Session 27	
Late Breakers in Clinical Tropical Medicine and Global Health (Abstract #LB-5149 through LB-5155).....	2
Oral Presentations	
Late Breaker Abstract Session 80	
Late Breakers in Basic Science/Molecular Biology (Abstract #LB-5302 through LB-5309).....	4
Oral Presentations	
Late Breaker Abstract Session 132	
Late Breakers in Malaria (Abstract #LB-5442 through LB-5448).....	6
Poster Session 26	
Poster Session A	
Late Breakers in Basic Science/Molecular Biology (Abstract #LB-5000 through LB-5069).....	8
Poster Session 26	
Poster Session A	
Late Breakers in Clinical Tropical Medicine and Global Health (Abstract #LB-5070 through LB-5148).....	16
Poster Session 79	
Poster Session B	
Late Breakers in Basic Science/Molecular Biology (Abstract #LB-5156 through LB-5225).....	26
Poster Session 79	
Poster Session B	
Late Breakers in Clinical Tropical Medicine and Global Health (Abstract #LB-5226 through LB-5301).....	35
Poster Session 131	
Poster Session C	
Late Breakers in Basic Science/Molecular Biology (Abstract #LB-5310 through LB-5371).....	45
Poster Session 131	
Poster Session C	
Late Breakers in Clinical Tropical Medicine and Global Health (Abstract #LB-5372 through LB-5441).....	52
Presenter Index.....	61

Late Breaker Abstract Session 27

Late Breakers in Clinical Tropical Medicine and Global Health

Oral Presentations

Monday, November 14, 12:15 p.m. - 1:30 pm

Marriott - Imperial A

CHAIR

Barbara L. Herwaldt
Centers for Disease Control and Prevention, Atlanta, GA, United States

Noreen A. Hynes
Johns Hopkins University School of Medicine, Baltimore, MD, United States

Jason D. Maguire
Pfizer, Chesapeake, VA, United States

12:15 p.m.

LB-5149

Incidence and outcome of severe thrombocytopenia associated with Zika virus infection – Puerto Rico, 2016

Tyler M. Sharp¹, Aidsa Rivera¹, Melissa Bello Pagan², Laura Adams¹, Jorge Munoz-Jordan¹, Miriam Garcia², Jennifer S. Read¹, Stephen H. Waterman¹, Brenda Rivera-Garcia²

¹*Centers for Disease Control and Prevention, San Juan, PR, United States*, ²*Puerto Rico Department of Health, San Juan, PR, United States*

12:25 p.m.

LB-5150

Post-earthquake Zika Virus surge in tropical lowlands of Ecuador: An analysis of population-based incident cases from January to July 2016

Miguel Reina Ortiz¹, Maria E. Mejia², Vinita Sharma¹, Eknath Naik¹, Hamisu Salihu³, Ismael Hoare¹, Ricardo Izurieta¹

¹*University of South Florida, Tampa, FL, United States*, ²*Ministerio de Salud Pública del Ecuador, Quito, Ecuador*, ³*Baylor College of Medicine, Houston, TX, United States*

12:35 p.m.

LB-5151

Therapeutic efficacy of convalescent plasma: Association with the dose of Ebola virus antibodies administered

Johan van Griensven on behalf of the Ebola_Tx Consortium

Institute of Tropical Medicine, Antwerp, Belgium

12:45 p.m.

LB-5152

Using information, education and communication channels to alleviate Ebola fear and increase mass drug administration coverage in post Ebola context in Guinea

André Géopogui¹, Sylvain Haba², Mamadou Siradiou Baldé¹, Oumar Bantignel Barry¹, Cécé Niéba¹, Aissata Diaby¹, Lamine Lamah², Mohamed Lamine Yattara², Christelly Badila Flore², Bamba Fountin Ibrahim², Yaobi Zhang³

¹*Ministry of Health, Conakry, Guinea*, ²*Helen Keller International, Conakry, Guinea*, ³*Helen Keller International Regional Office for Africa, Dakar, Senegal*

12:55 p.m.

LB-5153

Deworming in pre-school aged children: A global empirical analysis of health outcomes

Nathan C. Lo¹, Jedidiah Snyder², David Addiss², Jason R. Andrews¹, Eran Bendavid¹

¹*Stanford University School of Medicine, Stanford, CA, United States*, ²*Children Without Worms, Task Force for Global Health, Decatur, GA, United States*

Late Breaker Abstract Session 27

Late Breakers Clinical Tropical Medicine/Global Health

Oral Presentations

Monday, November 14, 12:15 p.m. - 1:30 pm

Marriott - Imperial A

1:05 p.m.

LB-5154

Solar powered oxygen delivery: A randomized controlled non-inferiority trial

Michael T. Hawkes¹, Andrea Conroy², Robert O.

Opoka³, Sophie Namasopo⁴, Kevin Kain⁵

¹University of Alberta, Edmonton, AB, Canada,

²Indiana University, Bloomington, IN, United States,

³Makerere University, Kampala, Uganda, ⁴Jinja

Regional Referral Hospital, Jinja, Uganda, ⁵University of Toronto, Toronto, ON, Canada

1:15 p.m.

LB-5155

ChARM (Children's Automated Respiratory Monitor) - An innovative easy to use pneumonia screening tool for low resource settings

Rashed Shah¹, Pavan Dadlani², Isaiah Mwangi³, Eric Swedberg¹, Abraham Afeworki⁴, Gulam Kibria⁵, Niels Bunning², Ercan Gigi², Evans Amukoye³

¹Save the Children US, Washington, DC, United States,

²Philips Research, Amsterdam, Netherlands,

³Kenyan Medical Research Institution (KEMRI),

Nairobi, Kenya, ⁴Save the Children International,

Nairobi, Kenya, ⁵Bloomberg School of Public Health,

Johns Hopkins University, Baltimore, MD, United States

Late Breaker Abstract Session 80

Late Breakers in Basic Science/Molecular Biology

Oral Presentations

Tuesday, November 15, 12:15 p.m. - 1:35 pm

Marriott - Imperial A

CHAIR

Gregory D. Ebel

Colorado State University, Fort Collins, CO, United States

Naomi Forrester

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

12:15 p.m.

LB-5302

Characterization of Prefoldin, a potential blocking target of Plasmodium in Anopheles mosquitoes

Seokyoung Kang, Yuemei Dong, Simone Sandiford, Purnima Ravisanka, George Dimopoulos
Johns Hopkins, Baltimore, MD, United States

12:25 p.m.

LB-5303

A Genome-Wide Cell Based RNAi Screen Reveals Host Ubiquitination and Proteolysis Pathways Regulate Wolbachia Intracellular Titer

Pamela M. White¹, Adan Codina¹, Walter Bray¹, Alain Debec², Scott Lokey¹, Laura R. Serbus³, William Sullivan¹

¹University of California Santa Cruz, Santa Cruz, CA, United States, ²Jacques Monod Institute, CNRS, University Paris Diderot, Paris, France, ³Florida International University, Miami, FL, United States

12:35 p.m.

LB-5304

Ascaris Induced Asthma Phenotype in a Murine Model

Jill E. Weatherhead, Paul Porter, David Corry, Amy Coffey, Dana Haydel, Coreen Beaumier, Maria Elena Bottazzi, Peter Hotez

Baylor College of Medicine, Houston, TX, United States

12:45 p.m.

LB-5305

Hsp70 may be a molecular regulator of schistosome host invasion

Kenji Ishida, Emmitt R. Jolly
Case Western Reserve University, Cleveland, OH, United States

12:55 p.m.

LB-5306

The Gut Microbiome of the Vector *Lutzomyia longipalpis* is Essential for Survival of *Leishmania infantum*

Patrick Kelly¹, Sarah Bahr², Tiago Serafim³, Nadim Ajami⁴, Joseph Petrosino⁴, Claudio Meneses³, John Kirby¹, Jesus Valenzuela³, Shaden Kamhawi³, Mary Wilson¹

¹Departments of Microbiology, Internal Medicine and Epidemiology, University of Iowa, Iowa City, IA, United States, ²Department of Cellular and Molecular Medicine, Cleveland Clinic, Cleveland, OH, United States, ³Vector Molecular Biology Section, Laboratory of Malaria and Vector Research, National Institutes of Health, Rockville, MD, United States, ⁴Alkek Center for Metagenomics and Microbiome Research, Department of Molecular Virology and Microbiology, Baylor College of Medicine, Houston, TX, United States

Late Breaker Abstract Session 80

Late Breakers in Basic Science/Molecular Biology

Oral Presentations

Tuesday, November 15, 12:15 p.m. - 1:30 pm

Marriott - Imperial A

1:05 p.m.

LB-5307

Development of a Highly Susceptible Zika Virus Infection Model in Immunocompetent Wild-type Mice by Antibody Blockade of Type I Interferon

Darci R. Smith, Bradley Hollidge, Sharon Daye, Xiankun Zeng, Kyle Kuszpit, Thomas Bocan, Michael E. Lindquist, Jeff W. Koehler, Susan Coyne, Tim Minogue, Lynn Miller, Connie Schmaljohn, Sina Bavari, Joseph W. Golden
United States Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD, United States

1:15 p.m.

LB-5308

Evidence of Zika Virus RNA Replication and Persistence in Brain Tissues of Infants with Microcephaly and Placentas of Women with Pregnancy Associated Infections

Julu Bhatnagar, Roosecelis B. Martines, Demi B. Rabeneck, Yokabed Ermias, Sarah Reagan-Steiner, Lindsey B. Estetter, Tadaki Suzuki, Jana Ritter, Gillian Hale, Joy Gary, Marguerite K. Keating, Atis Muehlenbachs, Wun-Ju Shieh, Sherif R. Zaki
Infectious Diseases Pathology Branch, Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States

1:25 p.m.

LB-5309

Zika virus clinical isolates replicate in primary prostate stromal cells

Jennifer L. Spencer, David R. Rowley, Jason T. Kimata, Rebecca R. Rico-Hesse
Baylor College of Medicine, Houston, TX, United States

Late Breaker Abstract Session 132

Late Breakers in Malaria

Oral Presentations

Wednesday, November 16, 12:15 p.m. - 1:30 pm

Marriott - Imperial A

Chair

Stefan Kappe

Center for Infectious Disease Research, Seattle, WA, United States

12:15 p.m.

LB-5442

Malaria in migrants: Exceptional increase of *Plasmodium vivax* malaria in Eritrean refugees arriving in Europe 2014-2015

Klara Sondén¹, Thierry Rölling², **Anna Färnert**¹

¹Karolinska Institutet, Stockholm, Sweden,

²University Medical Center, Hamburg, Germany

12:25 p.m.

LB-5443

Harnessing the power of *Plasmodium falciparum* experimental genetic crosses

Richard S. Pinapati¹, Ashley M. Vaughan², Ian H. Cheeseman³, Lisa A. Checkley¹, Sage Z. Davis¹, Nelly Camargo², Matthew Fishbaugher², Shalini Nair³, Francois H. Nosten⁴, Timothy J. Anderson³, Stefan H. Kappe², **Michael T. Ferdig**¹

¹University of Notre Dame, Notre Dame, IN, United States, ²Center for Infectious Disease Research, Seattle, WA, United States, ³Texas Biomedical Research Institute, San Antonio, TX, United States,

⁴Shoklo Malaria Research Unit, Mahidol-Oxford Tropical Medicine Research Unit, Mahidol, Thailand

12:35 p.m.

LB-5444

***In utero* acquired maternal microchimerism predicts increased infection but decreased disease due to *P. falciparum* during early childhood**

Whitney E. Harrington¹, Atis Muehlenbachs², Sami B. Kanaan³, Edward Kabyemela⁴, Robert Morrison⁵, Philip Stevenson³, Michal Fried⁶, Patrick E. Duffy⁶, J. Lee Nelson³

¹Department of Pediatrics, University of Washington/Seattle Children's Hospital, Seattle, WA, United States, ²Department of Pathology, University of Washington, Seattle, WA, United States, ³Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ⁴Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, ⁵Center for Infectious Disease Research, Seattle, WA, United States, ⁶Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

12:45 p.m.

LB-5445

Cryptic mitochondrial diversity gives rise to drug resistance in *Plasmodium falciparum*

Sasha V. Siegel, Andrea Rivero, Swamy R. Adapa, ChengQi Wang, Rays H.Y. Jiang, Dennis E. Kyle
University of South Florida, Tampa, FL, United States

12:55 p.m.

LB-5446

Drivers of the spread of "diagnostic resistant" *P. falciparum* malaria: A model-based evaluation of the spread of pfrhp2 gene deletions in Africa

Oliver J. Watson¹, Hannah C. Slater¹, Robert Verity¹, Steven R. Meshnick², Jonathan B. Parr², M. K. Mwandagirwa², Antoinette Tshefu³, Azra C. Ghani¹

¹MRC Centre for Outbreak Analysis & Modelling, Imperial College London, London, United Kingdom, ²Division of Infectious Diseases, University of North Carolina, Chapel Hill, NC, United States, ³University of Kinshasa, School of Public Health, Kinshasa, Democratic Republic of the Congo

Late Breaker Abstract Session 132

Late Breakers in Malaria

Oral Presentations

Wednesday, November 16, 12:15 p.m. - 1:30 pm

Marriott - Imperial A

1:05 p.m.

LB-5447

A new *Laverania* species in wild-living bonobos

Weimin Liu¹, Yingying Li¹, Dorothy E. Loy¹, Gerald H. Learn¹, Sesh A. Sundararaman¹, Lindsey Plenderleith², Paco Bertolani³, John A. Hart⁴, Terese B. Hart⁴, Jean-Bosco N. Ndjango⁵, Alexander V. Georgiev⁶, Martine N. Muller⁷, Steve Ahuka-Mundeke⁸, Martine Peeters⁹, Paul M. Sharp², Beatrice H. Hahn¹

¹University of Pennsylvania, Philadelphia, PA, United States, ²University of Edinburgh, Edinburgh, United Kingdom, ³University of Cambridge, Cambridge, United Kingdom, ⁴Lukuru Wildlife Research Foundation, Kinshasa, Democratic Republic of the Congo, ⁵University of Kinsangani, Kinsangani, Democratic Republic of the Congo, ⁶Harvard University, Cambridge, MA, United States, ⁷University of New Mexico, Albuquerque, NM, United States, ⁸University of Kinshasa, Kinshasa, Democratic Republic of the Congo, ⁹University of Montpellier, Montpellier, France

1:15 p.m.

LB-5448

Characterization of a novel population of neutrophils during *Plasmodium berghei* ANKA infection in mice

Maya Aleshnick, Joanna Chorazeczewski, Victoria Majam, Sanjai Kumar, Miranda S. Oakley
Food and Drug Administration, Silver Spring, MD, United States

Poster Session 26

Poster Session A

Late Breakers in Basic Science/Molecular Biology

Monday, November 14, Noon - 1:45 p.m.

Hilton - Grand Ballroom and Grand Salon

Arthropods/Entomology	#LB-5000 through LB-5010
Bacteriology and Diarrhea	#LB-5011 through LB-5015
HIV and Tropical Co-Infections.....	#LB-5016 through LB-5017
Kinetoplastida.....	#LB-5018 through LB-5027
Malaria	#LB-5028 through LB-5056
Pneumonia, Respiratory Infections and Tuberculosis	#LB-5057 through LB-5060
Trematodes.....	#LB-5061 through LB-5064
Water, Sanitation, Hygiene and Environmental Health	#LB-5065 through LB-5069

LB-5000

Small-scale field testing and evaluation of Fludora Fusion, a new neonicotinoid Indoor Residual Spraying formulation (mixture of Clothianidin 200 mg ai/sqm + Deltamethrin 25 mg ai/sqm) against populations of Anopheles gambiae susceptible and resistant to pyrethroids in Benin, West Africa

Martin C. Akogbéto, Fiacre Agossa, Gil G. Padonou, Razaki Ossè, Rock Aikpon
CREC, Cotonou, Benin

LB-5001

Influence of the agrochemicals used for rice and vegetable cultivation on insecticide resistance in malaria vectors in southern Côte d'Ivoire

Mouhamadou Chouaibou
CSRS, Abidjan, Côte D'Ivoire

LB-5002

Association between 2La chromosomal inversion and adaptation of An. gambiae s.l. (Culicidae), a malaria vector to different ecological zones in Ghana

Samuel K. Dadzie¹, Emmanuel C. Ottih², Delphina A. Gomez³, Joseph Chabi¹, Maxwell A. Appawu¹, Daniel A. Boakye¹
¹*Noguchi Memorial Institute for Medical Research, Accra, Ghana*, ²*African Regional Postgraduate Programme In Insect Science, University of Ghana, Ghana*, ³*African Regional Postgraduate Programme In Insect Science, Accra, Ghana*

LB-5003

Assessing the Risk of Rickettsial Pathogens in Thailand

Kaya Garringer¹, John Grieco¹, Nicole Achee¹, Naomi Penney¹, Kriangkrai Lerdthusnee²,

Theeraphap Chareonviriyaphap²

¹*University of Notre Dame, South Bend, IN, United States*, ²*Kasetsart University, Bangkok, Thailand*

LB-5004

Efficacy and Influence of Consumer-Based Household Aerosol Sprays against Aedes Aegypti in Highly Pyrethroid-Resistant Communities

Lyndsey Gray¹, Sergio Dzib Flores², Anuar Medina Barreiro², José Manuel Vadillo Sánchez², Audrey Lenhart³, Pablo Manrique-Saide², Gonzalo Vazquez-Prokopec⁴

¹*Department of Epidemiology, Emory University, Atlanta, GA, United States*, ²*Unidad Colaborativa para Bioensayos Entomológicos, Universidad Autónoma de Yucatán, Mérida, Mexico*, ³*CDC, Atlanta, GA, United States*, ⁴*Department of Environmental Sciences, Emory University, Atlanta, GA, United States*

LB-5005

Assessing the Host Preference of Anopheles Arabiensis Patton (Diptera: Culicidae) Using Three Alternative Experimental Setups

Abebe A. Gutto
Jimma University, Jimma, Ethiopia

LB-5006

Susceptibility status of malaria vectors to insecticides commonly used for malaria vector control in Tanzania

Stephen M. Magesa
PMI-AIRS Tanzania Project, Mwanza, Tanzania, MD, United States

LB-5007

Distribution and DNA barcoding of tick species in Belize, Central America

Suppaluck Polsomboon¹, Yvonne-Marie Linton², Maysa Motoki², Jittawadee R. Murphy¹, Chien Chung Chao³, Wei Mei Ching³, Richard G. Robbins², Nicole L. Achee⁴, John P. Grieco⁴, Ireneo Briceño⁵, Russell King⁵, David F. Hoel¹

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Walter Reed Biosystematics Unit, Smithsonian Institution Museum Support Center MRC-534, Suitland, MD, United States, ³Viral and Rickettsial Diseases Department, Infectious Disease Directorate, Naval Medical Research Center, Silver Spring, MD, United States, ⁴Department of Biological Sciences, Eck Institute for Global Health, University of Notre Dame, Notre Dame, IN, United States, ⁵Ministry of Health, Vector Control Office, Orange Walk Town, Orange Walk, Belize

LB-5008

The *Anopheles gambiae* 2La chromosome inversion is genetically associated with susceptibility to *Plasmodium falciparum* throughout Africa

Michelle M. Riehle¹, Tullu Bukhari², Awa Gneme³, Wamdaogo M. Guelbeogo⁴, N'falé Sagnon⁴, Boubacar Coulibaly⁵, Adrien Pain², Emmanuel Bischoff², Francois Renaud⁶, Abdoul H. Beavogui⁷, Sekou F. Traore⁵, Kenneth D. Vernick²

¹University of Minnesota, St. Paul, MN, United States, ²Institut Pasteur, Paris, France, ³Université de Ouagadougou, Ouagadougou, Burkina Faso, ⁴Centre National de recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso, ⁵Malaria Research and Training Centre, Faculty of Medicine and Dentistry, University of Mali, Bamako, Mali, ⁶Université de Montpellier, Montpellier, France, ⁷Centre de Formation et de Recherche en Santé Rurale de Mafèrinyah, Conakry, Guinea

LB-5009

Optimization of *Plasmodium falciparum* in vitro gametocyte culture for successful malaria transmission in mosquitoes

Janneth Rodrigues, Sonia Lozano, Nitin Jindal, David Calvo, Juliana Sanchez
GlaxoSmithKline, Madrid, Spain

LB-5010

Effects of cross-drafts on the behavior of mosquitoes attacking a bed net

James F. Sutcliffe
Trent University, Peterborough, ON, Canada

LB-5011

Host-targeted therapies for acute secretory diarrhea: A survey of clinical-stage drug candidates across multiple pathogenic mechanisms

Robert Choy¹, David W. Griggs², Michael J. Prinsen², Jonathan Oliva², Mary A. Campbell², Stacy D. Arnett², Deena Tajfirouz², Peter G. Ruminski², Ying Yu³, Brian R. Bond³, Yuhua Ji¹, Georg Neckermann¹, Marvin J. Meyers², Eugenio de Hostos¹

¹PATH, San Francisco, CA, United States, ²Center for World Health and Medicine, St. Louis University, St. Louis, MO, United States, ³Gateway Pharmacology Laboratories, St. Louis, MO, United States

LB-5012

Epidemiological Description of Unmitigated Cholera Epidemics in 19th Century Denmark

Matthew Phelps¹, Mads L. Perner¹, Emma Davidsen¹, Peter K. Jensen¹, Viggo Andreasen², Lone Simonsen¹

¹University of Copenhagen, Department of Public Health, Copenhagen, Denmark, ²Roskilde University, Department of Science and Environment, Roskilde, Denmark

LB-5013

Multilocus sequence typing (MLST) of *Cronobacter* isolates recovered from foods, foodborne outbreaks, sporadic cases and environmental surveillance samples

Irshad M. Sulaiman, Katharine Segars, Emily Jacobs, Steven Simpson, Khalil Kerhahi
U. S. Food and Drug Administration, Atlanta, GA, United States

LB-5014

Evaluation of various media and comparison of growth conditions for ideal cultivation of *Campylobacter* spp.

Ying-Hsin Hsieh, Steven Simpson, Khalil Kerdahi,
Irshad M. Sulaiman
U. S. Food and Drug Administration, Atlanta, GA, United States

LB-5015

In Vitro Evaluation of the Phytoconstituents and Antimicrobial Activity of an Aqueous Ripe Fruit Extract of the *Borassus aethiopum* Plant

Marina A. Tandoh¹, Ben Kumah², Felix C. Mills-Robertson³, Enoch Ayertey³, Nana Pomaah Aninkorah³

¹The Department of Foods and Nutrition, University of Georgia, Athens, GA, United States, ²Department of Optometry and Visual Science, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ³Department Of Biochemistry and Biotechnology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

LB-5016

Mechanistic models of comorbidity and the promise of improved diagnostics for high-disease burden communities

Paul Fenimore¹, Benjamin H. McMahon¹, Judith R. Mourant¹, Nicolas W. Hengartner¹, Ruy M. Ribeiro¹, Norman A. Doggett¹, Momchilo Vuyisch¹, Harshini Mukundan¹, James M. Hyman², Carrie A. Manore¹, Prakash Kempaiah³, Douglas J. Perkins³

¹Los Alamos National Laboratory, Los Alamos, NM, United States, ²Tulane University, New Orleans, LA, United States, ³University of New Mexico, Albuquerque, NM, United States

LB-5017

Impact of maternal antibody on infant gut microbiome and seroreactivity in the first year of life in HIV-exposed but uninfected infants in Uganda

Jonathan S. Schultz¹, Daniel N. Frank¹, Carolyne Onyango-Makumbi², Mary Glenn Fowler², Elizabeth J. McFarland¹, Charles O. Elson³, Edward N. Janoff¹

¹University of Colorado, Aurora, CO, United States, ²Makerere University-Johns Hopkins University Research Collaboration, Kampala, Uganda, ³University of Alabama at Birmingham, Birmingham, AL, United States

LB-5018

Pannexin-1 Hemichannels Mediate Repetitive Ca²⁺ transients evoked by *Trypanosoma cruzi* Favoring Its Invasion into Cardiac Myocytes

Ivan Barria

Universidad de Antofagasta, Antofagasta, Chile

LB-5019

Decreasing in the ability of leishmania killing by monocytes and enhancement in the innate

immune response is associated with pathology in cutaneous leishmaniasis

Edgar M. Carvalho¹, Pedro Paulo Carneiro¹, Jacilara Alexandrino Conceição¹, Mary Wilson², Olívia Bacellar¹

¹Federal University of Bahia, Salvador, Brazil,

²University of Iowa, Salvador, IA, United States

LB-5020

AN11736, A Benzoxaborole Clinical Candidate for Treatment of *T. congolense* and *T. vivax* African Animal Trypanosomosis

Yvonne R. Freund¹, Tsutomu Akama¹, Pamela Berry¹, Yong-Kang Zhang¹, Eric Easom¹, Robert T. Jacobs¹, Jacob J. Plattner¹, Michael Witty², Tim Rowan², Rosemary Peter²

¹Anacor Pharmaceuticals, Inc, Palo Alto, CA, United States, ²Global Alliance for Livestock Veterinary Medicines, Edinburgh, United Kingdom

LB-5021

Amino Acid Ester Amides of Benzoxaborole 6-Carboxylic Acids as Potent Inhibitors of *Trypanosoma cruzi*: New Leads for the Treatment of Chagas Disease

Robert T. Jacobs¹, Rick L. Tarleton², Tsutomu Akama¹, David S. Carter¹, Eric Easom¹, Yvonne Freund¹, Jason S. Halladay¹, Yang Liu¹, Jacob J. Plattner¹, Angel M. Padilla², Wei Wang²

¹Anacor Pharmaceuticals, Palo Alto, CA, United States, ²University of Georgia, Athens, GA, United States

LB-5022

Deletion of the A2 virulence factor through CRISPR-Cas9 targeting results in attenuated *Leishmania donovani*

Patrick Lypaczewski, Wen-Wei Zhang, Greg Matlashewski

McGill University, Montreal, QC, Canada

LB-5023

Elevated Baseline Expression of Virulence Factors in Visceralizing versus Non-Visceralizing Species of *Leishmania*

Avinash N. Mukkala¹, Ruwandi Kariyawasam¹, Rachel Lau², Braulio Valencia³, Alejandro Llanos-Cuentas³, Andrea K. Boggild¹

¹University of Toronto, Toronto, ON, Canada, ²Public Health Ontario Laboratories, Toronto, ON, Canada,

³Instituto de Medicina Tropical "Alexander von Humboldt", Lima, Peru

LB-5024

In vivo efficacy of novel boron-containing compounds against *Trypanosoma cruzi* infection

Angel M. Padilla¹, Arlene George¹, Fernando Sanchez¹, Juan Bustamante¹, Wei Wang¹, Robert Jacobs², Eric Easom², Rick Tarleton¹
¹Center for Tropical and Emerging Global Diseases, Athens, GA, United States, ²Anacor Pharmaceuticals, Inc, Palo Alto, CA, United States

LB-5025

Trypanosome Lytic Factor mediated protection against *Leishmania* sp.

Jyoti Pant¹, Mert Kemal Keceli², Jayne Raper¹
¹The Graduate Center, City University of New York, New York, NY, United States, ²Hunter College, CUNY, New York, NY, United States

LB-5026

Benznidazole-resistance of *Trypanosoma cruzi* isolates is not associated with a classical drug-resistance mechanism or isolate-specific tissue tropism

Fernando Sánchez-Váldez, Angel Padilla, Juan Bustamante, Rick Tarleton
CTEGD, Athens, GA, United States

LB-5027

Study of Chagas disease focus in two municipalities of Córdoba Department - Colombia

Catalina Tovar¹, Dina Ricardo¹, Cielo León², Mario Ortíz², Elkin Monterrosa³
¹Universidad del Sinú, Montería, Montería, Colombia, ²Universidad de los Andes, Bogotá, Colombia, ³Laboratorio de Salud Pública, Departamento de Córdoba, Montería, Colombia

LB-5028

Inbreeding and outbreeding patterns in *P. falciparum* multiple infections

Jacob Almagro-Garcia, Joe Zhu, Dominic Kwiatkowski, Gilean McVean
Wellcome Trust Centre for Human Genetics, Oxford, United Kingdom

LB-5029

Production and Characterization of Monoclonal Antibodies to Pvs48/45 of *Plasmodium vivax*

Emily Shaffer¹, Yi Cao¹, Dietlind Gerloff², Nirbhay Kumar¹, Geetha P. Bansal¹
¹Tulane University, New Orleans, LA, United States, ²Foundation for Applied Molecular Evolution, Alachua, FL, United States

LB-5030

Age-dependent inflammation, endothelial activation and disease severity in *Plasmodium knowlesi* malaria

Bridget E. Barber¹, Matthew J. Grigg¹, Timothy William², Kim Piera¹, Tsing W. Yeo¹, Nicholas M. Anstey¹
¹Menzies School of Health Research, Darwin, Northern Territory, Australia, ²Jesselton Medical Centre, Kota Kinabalu, Sabah, Malaysia

LB-5031

Protective Efficacy and Immune Responses in BALB/c mice Chemoprophylaxis Vaccination under Pyrimethamine drug treatment (CVac - P. yoelii)

Solomon Conteh
NIH, Rockville, MD, United States

LB-5032

A longitudinal study of diverse anopheline mosquitoes in Cambodia

Nicholas Deason¹, Brandyce St. Laurent¹, Kolthida Oy², Siv Sovannaroth², Jennifer Anderson¹, Rick Fairhurst¹
¹National Institutes of Health, Rockville, MD, United States, ²National Center for Parasitology, Entomology, and Malaria Control, Phnom Penh, Cambodia

LB-5033

In vitro selection of three independent artemisinin-resistant *P. falciparum* lines from recently adapted West African isolates

Allison Demas¹, Wesley Wong¹, Angela Early², Seth Redmond², Selina Bopp¹, Daniel E. Neafsey², Sarah K. Volkman¹, Daniel L. Hartl³, Dyann F. Wirth¹
¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²The Broad Institute, Cambridge, MA, United States, ³Harvard University, Cambridge, MA, United States

LB-5034

In vitro merozoite neutralization predicts protection of *Aotus nancymae* against *Plasmodium falciparum* by passively transferred anti-PfRH5 monoclonal antibody

Alexander D. Douglas¹, Jing Jin¹, Zenon Zenonos¹, Daniel G. Alanine¹, Wang Chuan¹, Gavin J. Wright², Simon J. Draper¹
¹Jenner Institute, Oxford, United Kingdom, ²Sanger Institute, Cambridge, United Kingdom

LB-5035

Human phosphoinositol-3 kinase inhibitors as radical antimalarial chemotherapeutic agents against *Plasmodium falciparum*

Richard T. Eastman¹, Matthew Hassett², Chanaki Amaratunga¹, Kimberly F. Breglio¹, Bo Peng¹, Gaetan Chicanne³, Patrick Morris¹, Bernard Payrastra³, Xinzhuang Su¹, Rick M. Fairhurst¹, Paul D. Roepe², Craig J. Thomas¹

¹National Institutes of Health, Rockville, MD, United States, ²Georgetown University, Washington, DC, United States, ³Inserm, Toulouse, France

LB-5036

MDA+ IRS: Enhanced suppression of transmission with joint medical and entomological control measures

Richard Elliott¹, David L. Smith², Dorothy Echodu³
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LB-5037

Mass screening of G6PD deficiency using WST8/1-methoxy-PMS enzymatic assay in China

Yaobao Liu¹, Huayun Zhou¹, Weiming Wang¹, Yuanyuan Cao¹, Yuchun Li², Shanqing Wang², Jun Cao¹, Qi Gao¹, Rui Huang³
¹Jiangsu Institute of Parasitic Diseases, Wuxi, China, ²Hainan Center for Disease Control and Prevention, Haikou, China, ³Medical College of Soochow University, Suzhou, China

LB-5038

Even Bites Before Bedtime can Carry a High Risk of Human *Falciparum* Malaria Infection

Nicodem J. Govella, Masabho P. Milali
Ifakara Health Institute, Dar es Salaam, United Republic of Tanzania

LB-5039

Defining parasite gene signatures that predict infectivity to mosquitoes: Are all gametocytes created equal?

Jen C. Hume¹, Omely Marte¹, Robert Morrison¹, Mamadou Coulibaly², Merepen A. Guindo², Issaka Sagara², Mahamadoun H. Assadou², Sara A. Healy¹, Jetsumon Sattabongkot³, Kirakorn Kiattibutr³, Timothy G. Myers⁴, Ogobara Doumbo², Sekou F. Traore², Patrick E. Duffy¹, Kim C. Williamson⁵
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University of Science, Techniques and Technologies, Bamako, Mali, ³Mahidol University, Bangkok, Thailand, ⁴NIH/NIAID, Bethesda, MD, United States, ⁵Uniformed Services University of the Health Sciences, Bethesda, MD, United States

LB-5040

Molecular characterization of a cluster of imported malaria cases in Puerto Rico

Stella M. Chenet, Luciana Silva-Flannery, Naomi W. Lucchi, Dragan Ljolje, Kimberly Mace, Paul M. Arguin, Venkatachalam Udhayakumar
Centers for Disease Control and Prevention, ATLANTA, GA, United States

LB-5041

Do NIR Spectra Collected from Lab-reared Mosquitoes Differ from those Collected from Wild Mosquitoes?

Masabho P. Milali¹, Maggy Sikulu-Lord², Samson S. Kiware³, Richard J. Povinelli⁴, George F. Corliss⁴
¹Ifakara Health Institute, Ifakara-Morogoro, United Republic of Tanzania, ²QIMR Berghofer Medical Research Institute, Australia, Australia, ³Ifakara Health Institute, Ifakara-Dar es Salaam, United Republic of Tanzania, ⁴Marquette University, Milwaukee, WI, United States

LB-5042

Socio-cultural factors and their contribution to mosquito biting exposure and outdoor malaria transmission in Kilombero Valley

Irene R. Moshi¹, Angel Dillip¹, Maureen Coetzee², Ladslaus Mnyone¹, Lenore Manderson²
¹Ifakara Health Institute, Ifakara, United Republic of Tanzania, ²The University of the Witwatersrand, Johannesburg, South Africa

LB-5043

Emergence of Artemisinin drug-resistance

JOSEPH K. NGANGA
JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY, NAIROBI, Kenya

LB-5044

Anti-adhesion compounds reduce inflammation of cytotrophoblast BeWo cells induced by CSA-binding *P. falciparum*-infected erythrocytes

Olga Chesnokov¹, Jordan Merritt¹, Irina V. Oleinikov¹, Adel Nefzi², Andrew V. Oleinikov¹
¹Charles E. Schmidt College of Medicine, Department of Biomedical Science, Florida Atlantic University, Boca Raton, FL, United States, ²Torrey Pines Institute for Molecular Studies, Port St. Lucie, FL, United States

LB-5045

TaqMan array card for the rapid detection of known antimalarial drug resistance markers

Suporn Pholwat, Eric Houpt, Jennifer Guler
University of Virginia, Charlottesville, VA, United States

LB-5046

Tetramer+ CD8+ T cells specific for Plasmodium berghei novel protective liver stage antigens persist following secondary sporozoite challenge

Alexander Pichugin¹, Stasya Zarling¹, Leah Perazzo¹, Xinyue Liu¹, Hidde Ploegh², Patrick E. Duffy³, Urszula Krzych¹
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LB-5047

Optimization of Adjuvants for PfSEA-1 Vaccine Trials

Dipak K. Raj¹, Ambrish Jha², Brett Sherman², Christopher B. Fox³, Sandra J. Sivananthan³, Randall F. Howard³, Darrick Carter³, Jonathan D. Kurtis¹
¹Center for International Health Research, Department of Pathology and Laboratory Medicine, Rhode Island Hospital, Brown University Medical School, Providence, RI, United States, ²Center for International Health Research, Rhode Island Hospital, Brown University Medical School, Providence, RI, United States, ³Infectious Disease Research Institute, Seattle, WA, United States

LB-5048

Exploring immunopathogenesis in the etiology of severe malarial anemia using two primate malaria models

Amber I. Raja
National Institutes of Health, Rockville, MD, United States

LB-5049

Autoreactive T-bet+ B-cells promote severe anemia during malaria

Juan Rivera-Correa, Ana Rodriguez
New York University School of Medicine, New York, NY, United States

LB-5050

Establishment of the Ring-stage Survival Assay (RSA) approach to monitoring artemisinin antimalarial drug resistance in the Peruvian Amazon Basin

Carola J. Salas¹, Keare A. Barazorda¹, Carmen M. Lucas¹, Laura L. Tapia¹, Hugo O. Valdivia¹, Sarah B. Ballard¹, Robert V. Gerbasi²
¹US NAMRU-6, Lima, Peru, ²Naval Medical Research Center, Silver Spring, MD, United States

LB-5051

Analysis of antimalarial resistance markers pfmdr1 and pfprt across Southeast Asia from the Tracking Resistance to Artemisinin Collaboration Study

Krongkan Srimuang¹, Olivo Miotto², Pharath Lim³, Rick M Fairhurst⁴, Dominic Kwiatkowski⁵, Charles J Woodrow⁶, Mallika Imwong¹
¹Mahidol University, Bangkok, Thailand, ²Wellcome Trust Sanger Institute, Hinxton, United Kingdom, ³National Center for Parasitology, Entomology, and Malaria Control, Phnom Penh, Cambodia, ⁴Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ⁵Medical Research Council (MRC) Centre for Genomics and Global Health, University of Oxford, Oxford, United Kingdom, ⁶Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

LB-5053

Home sweet home of Plasmodium vivax: Phenotypic analysis of reticulocytes surface markers by mass cytometry

Richard Thomson-Luque, ChengQi Wang, Shulin Xu, Francis B. Ntumngia, Samantha Barnes, Swamy Rakesh Adapa, Laurelis Santiago, Amy Taylor, John H. H. Adams, Rays H. Jiang
USF Global Health and Infectious Diseases, Tampa, FL, United States

LB-5054

Seasonal Malaria Chemoprevention (SMC) in Dangassa, Mali: Coverage and Impact on malaria incidence during the 2015 transmission season

Mahamoudou Toure¹, Daouda Sanogo¹, Fatoumata Guindo¹, Seydou Doumbia¹, Donald Krogstad²
¹*Université des Sciences, des techniques et des technologies de Bamako, Bamako, Mali*, ²*Tulane University, New Orleans, LA, United States*

LB-5055

Xanthine Oxidase Induced Inflammation in Malaria

Maureen C. Ty, Anton Goetz, Ana Rodriguez
NYU School of Medicine, New York, NY, United States

LB-5056

Styrylquinoline Type Synthetic Antimalarial Molecule And Its Effect On Plasmodium falciparum Colombian Clinical Isolates

Maria F. Yasnot, Omar Torres, Favio Petro, Mayra A. Ballesta, Marcela P. Santana
Universidad de Cordoba, Monteria, Colombia

LB-5057

Increase and susceptibility to tuberculosis in HTLV-1 is associated with impairment in the innate immune response

Maria L. Bastos¹, Natália Carvalho², Yuri Neves², Edgar M. Carvalho²
¹*Escola Bahiana de Medicina e Saúde Pública, Salvador, Brazil*, ²*Federal University of Bahia, Salvador, Brazil*

LB-5058

Antimycobacterial effect of E555: A natural product

Wisdom O. Iyanda-Joel, Emeka E. Iweala, Shalom N. Chinedu
Covenant University, OTA, Nigeria

LB-5059

Antibiotic Susceptibility Patterns Of The 10 Most Common Invasive Bacteria Isolated From Patients In Eastern Gambia

SARJO NJIE
MEDICAL RESEARCH COUNCIL, BANJUL, Gambia

LB-5060

Characterization of Drug Heteroresistance in Mycobacterium tuberculosis Isolates by Amplicon-Based Next Generation Sequencing

Darwin J. Operario¹, Alexander Koeppl¹, Stephen Turner¹, Suporn Pholwat¹, Stellah Mpagama², Oleg Ogarkov³, Svetlana Zhadova³, Suporn Foongladda⁴, Sayera Banu⁵, Scott Heysell¹, Eric Houpt¹
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LB-5061

Modulation of human innate lymphoid cell function by the parasite antigen SEA or by IL-10

Sandra Bonne-Année, Thomas B. Nutman
NIH, Bethesda, MD, United States

LB-5062

Transgenic Biomphalaria glabrata derived by infection of the ovotestis with pseudotyped lentivirus

Matty Knight¹, Carolyn Cousin², Paul J. Brindley¹, John L. Teem³
¹*George Washington University, N.W. Washington, DC, United States*, ²*University of the District of Columbia, N.W. Washington, DC, United States*, ³*Florida Department of Agriculture and Consumer Services/Division of Aquaculture, Tallahassee, FL, United States*

LB-5063

Characterization of the protection elicited by the immunization of mice with Schistosoma mansoni Cathepsin B

Alessandra Ricciardi¹, Nicholas Zelt¹, Kittipos Visitsunthorn¹, John P. Dalton², Momar Ndao¹
¹*McGill University, Montreal, QC, Canada*, ²*Queen's University Belfast, Belfast, Ireland*

LB-5064

Interrupting schistosomiasis transmission in Cameroon: Considerations for moving beyond MDA to 'selective intensified control'

Louis-Albert Tchuem Tchunte¹, Suzy Campbell², Timothy Durant², Faye O'Halloran², Dieudonné Ombede¹, Gwladys Chuinteu¹, Russell Stothard²
¹*Centre for Schistosomiasis and Parasitology, Yaounde, Cameroon*, ²*Liverpool School of Tropical Medicine, Liverpool, United Kingdom*

Poster Session A

Late Breakers in Basic Science/Molecular Biology

Monday, November 14, Noon - 1:45 p.m.

LB-5065

Microbiological Assessment of Sachet Water in Ghana, West Africa

Asli Aslan¹, Christina Beslin¹, Asheley Poole¹, Kendall Anderson¹, Javier Gallard¹, Kathryn McGowan¹, Kevin Ofuri-Gyawu², Akmasi Ampofo-Yeboah²

¹*Georgia Southern University, Statesboro, GA, United States*, ²*University for Developmental Studies, Tamale, Ghana*

LB-5066

Spatial heterogeneity and disparities in enteric disease risk (ETEC and Shigella infection) in East and Central Africa: Implications for new enteric vaccines

Karoun H. Bagamian, John D. Anderson, Lindsey A. Laytner, Oliver Cumming, Richard Rheingans
University of Florida, Gainesville, FL, United States

LB-5067

Responsible Disposal of Obsolete Public Health DDT Insecticide Stocks in Ethiopia

Peter J. Chandonait

Abt Associates, Inc., Bethesda, MD, United States

LB-5068

Evaluation of Use, Acceptability, and Effectiveness of Household Water Treatment in Rural Honduras

Jacqueline Hurd¹, Shawnee Anderson¹, Meenu Anand², Roshini George², Laura Rusiecki³, Emma Wells¹, Rob Quick¹

¹*Centers for Disease Control/National Center for Emerging & Zoonotic Infectious Diseases/Division of Foodborne, Waterborne and Environmental Diseases, Atlanta, GA, United States*, ²*Sera Global Health, Atlanta, GA, United States*, ³*Emory University Rollins School of Public Health, Atlanta, GA, United States*

LB-5069

Predicting Human Disease Cases of West Nile Virus from mosquito abundance and transmission factors

Hiroko Mori, Joshua Wu, Motomu Ibaraki, Franklin W. Schwartz

The Ohio State University, Columbus, OH, United States

Poster Session 26
Poster Session A
Late Breakers in Clinical Tropical Medicine
Monday, November 14, Noon - 1:45 p.m.
Hilton - Grand Ballroom and Grand Salon

Arthropods/Entomology	#LB-5070 through LB-5073
Bacteriology and Diarrhea	#LB-5074 through LB-5085
Global Health.....	#LB-5086 through LB-5098
Integrated Control Measures for Neglected Tropical Diseases.....	#LB-5099 through LB-5112
Malaria	#LB-5113 through LB-5135
Viruses	#LB-5136 through LB-5148

LB-5070

MALDI-TOF MS as an innovative tool for detection of Plasmodium parasites in Anopheles mosquitoes

Maureen Laroche, Lionel Almeras, Emilie Pecchi, Yassina Bechah, Didier Raoult, Angèle Viola, Philippe Parola
Aix-Marseille University, Marseille, France

LB-5071

Factors associated with household infestation by Stegomyia aegypti in two Mexican towns

Lina Casadiegos-Patiño Lina¹, **Ruth A. Martínez-Vega**², Fredi A. Diaz-Quijano³, José Ramos-Castañeda⁴
¹*Universidad Industrial de Santander, Bucaramanga, Colombia*, ²*Universidad Industrial de Santander, Organización Latinoamericana para el Fomento de la Investigación en Salud, Bucaramanga, Colombia*, ³*Universidade de São Paulo, São Paulo, Brazil*, ⁴*Instituto Nacional de Salud Pública, Cuernavaca, Mexico*

LB-5072

Update on Borrelia mayonii: A New Cause of Lyme Disease in the United States

Bobbi S. Pritt¹, Paul S. Mead², Lynne M. Sloan¹, Elitza S. Theel¹, Dane Granger¹, Jenna Bjork³, Diep K. Johnson⁴, Jeffrey P. Davis⁴, Elizabeth Schiffman³, David F. Neitzel³, Martin E. Schriefer², Julia K. Jensen⁴, Laurel B. Respicio-Kingry⁵, Adam J. Replogle², Alicia Deedon⁴, Luke C. Kingry², Tracy K. Miller⁶, Michelle A. Feist⁶, Robin Patel¹, Cole L. Irish¹, Jeannine M. Petersen²
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States, ⁶North Dakota Department of Health, Bismarck, ND, United States

LB-5073

Experimental hut assays: A novel tool for assessing mosquito feeding dynamics in Malian adults

Fernando Salazar-Miralles¹, Mamadou Coulibaly², Daman Sylla², Adama Sacko², Boubacar Coulibaly², Daouda Ouloguem², Chata Doumbia², Lakamy Sylla², Sidiki Kamissoko², Issa Traore², Abdoulaye Keita², Youssouf Siniba², Issaka Sagara², Mahamadou H. Assadou², Mahamadou S. Sissoko², Abdoulaye Katile², Sara A. Healy¹, Ogobara Doumbo², Sekou F. Traore², Jen C. Hume¹, Patrick E. Duffy¹
¹*NIH/NIAID, Rockville, MD, United States*, ²*MRTC, University of Science, Techniques and Technologies, Bamako, Mali*

LB-5074

Population-Based Coverage Survey Results following the Mass Drug Administration of Azithromycin for the Treatment of Trachoma in West Amhara, Ethiopia

Tigist Astale¹, Eshetu Sata¹, Mulat Zerihun², Andrew Nute³, Aisha E. Stewart³, Demelash Gessesse², Berhanu Melak², Melsew Chanyalew⁴, Zerihun Tadesse¹, E. Kelly Callahan³, Scott D. Nash³
¹*The Carter Center, Addis Ababa, Ethiopia*, ²*The Carter Center, Bahir Dar, Ethiopia*, ³*The Carter Center, Atlanta, GA, United States*, ⁴*Amhara Regional Health Bureau, Bahir Dar, Ethiopia*

LB-5075

Efficacy of a novel nutritional product in acute childhood diarrhea in Guatemala: A randomized, double blind, placebo controlled trial

James Gaensbauer¹, Mario Melgar², Mirella de Calvimontes³, Edwin J. Asturias¹, Molly Lamb⁴, Ingrid Contreras-Roldan⁵, Samuel Dominguez¹, C. C. Robinson⁶, Stephen Berman¹

¹University of Colorado School of Medicine, Aurora, CO, United States, ²Unidad Nacional de Oncología, Guatemala City, Guatemala, ³Universidad Francisco Marroquin, Guatemala City, Guatemala, ⁴Colorado School of Public Health, Aurora, CO, United States, ⁵Universidad del Valle de Guatemala, Guatemala City, Guatemala, ⁶Children's Hospital Colorado, Aurora, CO, United States

LB-5076

The prevalence of rickettsioses in seven major cities in Indonesia

Mohammad Hussein Gasem

Diponegoro University, Semarang, Indonesia

LB-5077

Molecular Characterization of Nosocomial MDR Pseudomonas aeruginosa Surveillance in Peruvian Hospitals

Rosio Guerra¹, Claudio Rocha², William Castro³, Paolo Lopez³, Mark Simons⁴, Enrique Canal⁴, Maria Bernal⁴, Mariana Ramos⁴, Jose Quispe¹, Laner Ramirez¹, Andrea J. McCoy¹

¹Peruvian Navy Health Directorate, Lima, Peru, ²U.S. Naval Medical Research Unit No. 6, Lima, Peru, ³Peruvian Navy Medical Center, Lima, Peru, ⁴U.S. Naval Medical Research Unit No. 6, Lima, Peru

LB-5078

Cluster of Nosocomial MDR Pseudomonas aeruginosa in a Military Hospital: Environmental Investigation

Rosio Guerra¹, Claudio Rocha², Andrea J. McCoy², Mark Simons¹, Juan C. Meza³, Enrique Canal⁴, Maria Bernal², Yocelinda Meza², William Castro³, Jose Quispe¹, Laner Ramirez¹, Judith Fierro¹, Miguel Lopez², Mariana Ramos²

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LB-5079

The effect of seasonality of rotavirus on diarrhea-specific mortality in The Gambia: An analysis using verbal autopsy

M. Jahangir Hossain Hossain, Joquina Chiquita M. Jones, Momodou Jasseh
Medical Research Council Unit, The Gambia, Banjul, Gambia

LB-5080

Use of the TaqMan® Array Card on traveler's diarrhea stool samples for the detection and quantitation of enteric pathogens from Thailand

Paphavee Lertsethtakarn-Ketwalha¹, Sasikorn Silapong¹, Pimmada Sakpaisal¹, Siriphan Gonwong¹, Sanjaya Shrestha², Prativa Pandey³, Sinn Anuras⁴, Jie Liu⁵, Eric Houpt⁵, Ladaporn Bodhidatta¹, Brett Swierczewski¹, Carl Mason¹

¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²Walter Reed AFRIMS Research Unit - Nepal, Kathmandu, Nepal, ³CIWEC Clinic and Travel Medicine Center, Kathmandu, Nepal, ⁴Bumrungrad International Hospital, Bangkok, Thailand, ⁵University of Virginia, Charlottesville, VA, United States

LB-5081

Development of multiplex real time PCR panels to identify fourteen major colonization factors of enterotoxigenic Escherichia coli (ETEC)

Jie Liu¹, Sasikorn Silapong², Pimmada Jeanwattanalert², Paphavee Lertsethtakarn², Ladaporn Bodhidatta², Brett Swierczewski², Carl Mason², Jixian Zhang¹, Tahaniyat Lalani³, Michele Tisdale³, Rosemary Nshama⁴, Athanasia Maro⁵, Jean Gratz⁵, Eric Houpt¹

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LB-5082

Enteroaggregative Escherichia coli O25:H4 ST131 causing bacteremia among Mozambican children younger than 36 months of age, 2001-2014

INACIO MANDOMANDO¹, Delfino Vubil¹, Nadia Boisen², Betuel Sigauque¹, Llorenç Quinto³, Tacilta Nhampossa¹, Marcelino Garrine¹, Pedro Aide¹, Ariel Nhacolo¹, Maria J. Pons³, Quique Bassat³, Jordi Vila⁴, Fernando Ruiz-Perez⁵, James P. Nataro⁵, Pedro L. Alonso¹

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LB-5083

Trachoma prevalence remains low in five districts two years after stopping mass drug administration: Results of five surveillance surveys in Amhara, Ethiopia in 2015

Scott D. Nash, Aisha E. Stewart, Tigist Astale, Eshetu Sata, Mulat Zerihun, Demelash Gessesse, Berhanu Melaku, Melsew Chanyalew, Zerihun Tadesse, E. Kelly Callahan
The Carter Center, Atlanta, GA, United States

LB-5084

Trachoma impact surveys after at least 5 years of SAFE strategy in hyper-endemic Amhara National Regional State, Ethiopia

Aisha E. Stewart¹, Mulat Zerihun², Demelash Gessesse², Berhanu Melak², Eshetu Sata³, Tigist Astale³, Tekola Endeshaw³, Zerihun Tadesse³, E. Kelly Callahan¹, Melsew Chanyalew⁴, Birhan Gaudie⁴, Paul M. Emerson⁵, Jonathan D. King⁶, Scott D. Nash¹
¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Bahir Dar, Ethiopia, ³The Carter Center, Addis Ababa, Ethiopia, ⁴Amhara Regional Health Bureau, Bahir Dar, Ethiopia, ⁵International Trachoma Initiative, Decatur, GA, United States, ⁶World Health Organization, Geneva, Switzerland

LB-5085

Non-Specific Effects of Oral Polio Vaccine on Diarrheal Burden and Etiology in Bangladeshi Infants

Alexander Upfill-Brown¹, Mami Taniuchi², James A. Platts-Mills², Beth Kirkpatrick³, Stacey L. Burgess², Eric Houpt², Rashidul Haque⁴, K. Zaman⁴, William A. Petri²

¹David Geffen School of Medicine at UCLA, Los Angeles, CA, United States, ²University of Virginia School of Medicine, Charlottesville, VA, United States, ³University of Vermont College of Medicine, Burlington, VT, United States, ⁴International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

LB-5086

Knowledge and access to sexual and reproductive health services by men in the district of Manhica, southern Mozambique

Helena E. Boone, Khátia R. Munguambe, Yolanda Mousse, Olga Cambaco
Manhica Health Research Center (CISM), Manhica village, Mozambique

LB-5087

Design and Evaluation of a Low-Cost Method for Diagnosing Anemia

Meaghan Bond
Rice University, Houston, TX, United States

LB-5088

High-Resolution Mapping of Child Mortality in Africa

Roy Burstein¹, Nick Golding², Aaron Osgood-Zimmerman¹, Joshua Longbottom³, Annie J. Browne⁴, Larua Dwyer-Lindgren¹, Lucas Earl¹, Chloe Morozoff¹, Bonnie Mappin⁵, Stephen S. Lim¹, Haidong Wong¹, Abraham D. Flaxman¹, Daniel J. Weiss⁵, Harry S. Gibson⁵, Samir Bhatt⁶, Tamer H. Farag⁷, L. Kendall Krause⁷, Scott F. Dowell⁷, Peter W. Gething⁵, Christopher J. Murray¹, Catherine L. Moyes⁴, Simon I. Hay¹

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LB-5089

Incidence of Acute Brucellosis in the Kilimanjaro Region of Tanzania in the periods 2007-2008 and 2012-2014

Manuela Carugati¹, Holly M. Biggs¹, Michael J. Maze², Robyn A. Stoddard³, Shama Cash-Goldwasser⁴, Julian T. Hertz⁴, Jo E. Halliday⁵, Blandina T. Mmbaga⁶, Wilbrod Saganda⁷, Bingileki F. Lwezaula⁷, Kazwala R. Rudovick⁸, Sarah Cleaveland⁵, Venance P. Maro⁹, Matthew P. Rubach¹, John A. Crump²

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LB-5090

Intra-country Urban Disparities in Health Service Delivery based on City Size

Michael T. Cooper, David M. Thompson, Hélène Carabin, Paul M. Darden
University of Oklahoma Health Sciences Center,
Oklahoma City, OK, United States

LB-5091

Issues around disclosure of HIV status of pregnant women to their partners and families: Implications for prevention of mother-to-child transmission in Manhiça, Mozambique

Rui A. Guilaze
Manhica Health Research Center, Maputo,
Mozambique

LB-5092

South Sudan emergency medicine fund getting malaria medicine to people in midst of conflict

Lisa Hare, Herbert Rwabugahya, Abyu Faris Aberra, Naomi Printz
John Snow Inc., Arlington, VA, United States

LB-5093

Integration of Zimbabwe's public health supply chain leads to improved efficiency while maintaining high product availability

Lisa Hare, Naomi Printz, Tinei Chitsike, Jim Rosen, Greg Rosche
John Snow Inc., Arlington, VA, United States

LB-5094

The Social Ecology of Dengue Presence and Burden During an Outbreak in Guayaquil, Ecuador, 2012

Catherine A. Lippi¹, Katty C. Castillo², Anna M. Stewart-Ibarra³, Washington B. Cárdenas⁴, Raúl Mejía⁵, Mercy Borbor⁴, Keytia Rivero⁵, Sadie J. Ryan¹
¹Department of Geography and Emerging Pathogens Institute, University of Florida, Gainesville, FL, United States, ²German Diabetes Center, University of Düsseldorf, Düsseldorf, Germany, ³Center for Global Health and Translational Science, State University of New York Upstate Medical University, Syracuse, NY, United States, ⁴Escuela Superior Politécnica del Litoral, Guayaquil, Ecuador, ⁵National Institute of Meteorology and Hydrology, Guayaquil, Ecuador

LB-5095

Pneumococcal Vaccine Response in Children Previously Exposed to Parasites In Utero, in Infancy, or Mid-Childhood

Monica Nayakwadi Singer¹, Claire Heath², Jackson Muinde³, Virginia Gildengorin¹, Francis Mutuku⁴, David Vu², Dunstan Mukoko³, Christopher King⁵, Indu Malhotra⁵, Charles King⁵, Desiree LaBeaud²
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LB-5096

Long-term strategies for trachoma control with mass oral azithromycin: The TIRET cluster-randomized trial

Kieran S. O'Brien¹, Sun Y. Cotter¹, Sintayehu Gebresillasie², Zerihun Tadesse², Ayalew Shiferaw², Nicole E. Stoller¹, Travis C. Porco¹, Paul Emerson³, Thomas M. Lietman¹, Jeremy D. Keenan¹
¹University of California, San Francisco, San Francisco, CA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³The, Atlanta, GA, United States

LB-5097

Development of a Multiplex FilmArray Panel for the Detection and Diagnosis of Causative Agents of Acute Travel-Associated Febrile Illness

Mike Vaughn, Ashley Hillman, Elizabeth Ott, Nerissa Simon, Brandon Hanberg, Crystal Smith, Robert Trauscht, Cheryl Baird, Stephanie Thatcher, Robert Crisp
BioFire Diagnostics, Salt Lake City, UT, United States

LB-5098

Improving the quality of health facility data to monitor trends in malaria burden: Effectiveness of the Collaborative Improvement Approach

Nelli Westercamp¹, Sarah Staedke², Catherine Maiteki³, Simon P. Kigozi³, John M. Okiring³, Grant Dorsey⁴, Bryan K. Kapella¹, Steven Yoon¹, Alexander K. Rowe¹

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LB-5099

Qualitative Evaluation of HEAD START as a supportive supervision tool in Maradi, Niger

Mahamane Abdou¹, Chano Hamiden¹, **Hadiara Adamou**², Stephanie L. Palmer³, Amir B. Kello⁴, Kadri Boubacar¹, Tchouloum Toudja², Abdou Amza¹, Emily W. Gower⁵

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LB-5100

Can HEAD START Surgical Simulation Device Improve Experienced Trichiasis Surgeons' Skills? Quantitative Results from an Evaluation in Maradi, Niger

Chano Hamiden¹, **Hadiara Adamou**², Mahamane Abdou¹, Stephanie L. Palmer³, Amir B. Kello⁴, Kadri Boubacar¹, Tchouloum Toudja², Abdou Amza¹, Emily Gower⁵

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LB-5101

Remapping Lymphatic Filariasis by Immunochromatographic Test prior to Mass Drug Administration in Cote d'Ivoire

SERGE K. AGBO

FHI360 Cote d'Ivoire, ABIDJAN, Côte D'Ivoire

LB-5102

Distribution of Lymphatic Filariasis disease in population of 36 Health Districts in Cote d'Ivoire

Serge K. AGBO

FHI360 Cote d'Ivoire, ABIDJAN, Côte D'Ivoire

LB-5103

Behavior of population in LF endemic districts towards Insecticide-Treated-Nets use in 35 Health Districts in Cote d'Ivoire

SERGE K. AGBO

FHI360 Cote d'Ivoire, ABIDJAN, Côte D'Ivoire

LB-5104

Investigating the Role of Parasitic Co-Infections on the Transmission of Leprosy: A Mixed Case Control Study

Laura M. de Mondesert¹, Jessica L. Stephens¹, Lorena B. de Oliveira², Rafael S. Gama², Pedro H. Marçal², Gulnara P. Cabrera³, José A. Ferreira⁴, Maria A. Grossi⁴, Jessica K. Fairley⁵, Lucia A. Fraga²

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LB-5105

Dengue vaccine safety signal: Antibody dependent enhancement or waning immunity?

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LB-5106

Development of the Magic Glasses Philippines

Darren J. Gray¹, Andrew Bedford¹, Williams M. Gail², Franziska Bieri¹, Remigio Olveda³, Veronica Tallo³, Portia Alday³, Mary L. Mationg³, Mark Renossa³, Chona M. Daga³, Jhoys Landicho Landicho³, Eindra Aung¹, Yuesheng Li⁴, Yuan Liping⁵, Archie C. Clements¹, Peter Steinmann⁶, Kate Halton⁷, Donald Stewart⁸, Donald P. McManus⁴

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⁷Queensland University of Technology, Brisbane, Australia,

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LB-5107

A Novel Application of the Coverage Supervision Tool to Monitor a Harmonized Mass Drug Administration in the Philippines

Leda Hernandez¹, Winston Palasi¹, Katherine Gass²

¹Department of Health, Manila, Philippines, ²Task Force for Global Health, Decatur, GA, United States

LB-5108

Preliminary Results and Lessons Learned: Integrating Morbidity Management and Disability Prevention Patient Estimation into Routine Lymphatic Filariasis Programming in Haiti

Lior Miller¹, Franck Monestime², Carl Fayette², Alain Javel², Cudjoe Bennett¹, Lucenne Desir³, Abdel Direny⁴, Caitlin Worrell⁵, Murielle Gilbert⁶, Jean-Franz Lemoine⁶

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⁴RTI International, Washington, DC, United States, ⁵U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States,

⁶Ministry of Public Health and Population, Port-au-Prince, Haiti

LB-5109

Community Prevalence of Soil Transmitted Helminths and Schistosomiasis among Children ages 6 to 15 years in Amhara region, Ethiopia 2011-2015

Andrew W. Nute¹, Tekola Endeshaw¹, Aisha E. Stewart¹, Eshetu Sata¹, Mulat Zerihun¹, Demelash Gessesse¹, Zerihun Tedesse¹, Jonathan D. King², Paul M. Emerson³, E. Kelly Callahan¹, Scott D. Nash¹
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LB-5110

Investigation of an Outbreak of Acute Febrile Illness in Kathmandu, Nepal

Sunil Pokharel, Manan Karki, Buddha Basnyat
Oxford University Clinical Research Unit-Nepal, Lalitpur, Nepal

LB-5111

Geospatial Analysis of Leprosy and Schistosomiasis: A Novel View of NTDs to Guide Control in Endemic Areas

Jessica L. Stephens¹, Laura M. Demondersert¹, Marcio Souza², Jose A. Ferreira³, Lucia A. Fraga², Uriel D. Kitron⁴, Julie A. Clennon¹, Jessica K. Fairley⁵
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LB-5112

A Cost Analysis of Murine Typhus in Galveston, Texas

Rahat Vohra, Lucas Blanton
University of Texas Medical Branch, Galveston, TX, United States

LB-5113

The Challenge of Reducing Malaria in Angola

Jhony Juarez¹, Margarita Gurdian-Sandoval¹, Julio Bonillo¹, **William R. Brieger**²
¹Jhpiego, Luanda, Angola, ²The Johns Hopkins University, Baltimore, MD, United States

LB-5114

REORIENTING THE MALARIA SURVEILLANCE SYSTEM IN NAMIBIA FOR ELIMINATION: ASSESSING CRITICAL PROGRAM NEEDS

Bradley Didier¹, Mwalenga Nghipumbwa², Jehan Ahmed¹, Deepa Pindolia¹, Inessa Ba¹, Charlotte Dolenz¹, Petrina Uusiku²
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LB-5115

Schistosoma haematobium Prevalence in Target Populations for Malaria Vaccine Trials in Mali

M'Bouyé DOUCOURE¹, Merepen A. GUINDO¹, Boucary OUOLOGUEM¹, Amadou KONATE¹, Sintry SANOGO¹, Souleymane TRAORE¹, Sidiki PEROU¹, Mahamadoun H. ASSADOU¹, Abdoulaye KATILE¹, Mamady KONE¹, Yacouba SAMAKE¹, Kourane SISSOKO¹, Bourama KAMATE¹, Mahamadoun S. SISSOKO¹, Issaka SAGARA¹, Boubacar TRAORE¹, Jordyn MANUCCI², Sara A. HEALY³, Patrick E. DUFFY³, Ogobara DOUMBO¹

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LB-5116

The burden of submicroscopic infections in Chennai, India, and the significance for elimination

Alex Eapen¹, Sri Lakshmi Priya G¹, Sangamithra R¹, Aswin A¹, Anna Maria van Eijk², Lalitha Ramanathapuram², Neena Valecha³, Jane Carlton²
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LB-5117

Prevalence of glucose-6-phosphate dehydrogenase deficiency among a rural and remote population of Lao PDR (Laos)

Gisela C. Henriques¹, Shristi Raut², Koukeo Phommasone², Bipin Adhikari¹, Tiengkham Pongvongsa³, Benedikt Ley⁴, Lorenz von Seidlein¹, Nick Day¹, Nick White¹, Arjen Dondorp¹, Paul Newton¹, Mayfong Mayxay¹
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LB-5118

Automated Detection and Quantification of Malaria Microscopy Images

Jane Hung¹, Deepali Ravel², Fabio Costa³, Marcus Lacerda⁴, Stefanie Lopes⁵, Matthias Marti⁶, Anne Carpenter⁷

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LB-5119

Trends in Bednet Ownership and Usage and Impact of Bednets on Malaria Morbidity in the Kilifi Health and Demographic Surveillance Site (KHDSS); 2008-2015

Alice Kamau¹, Victoria Nyaga¹, Evasius Bauni¹, Benjamin Tsofa¹, Abdisalan Noor¹, Philip Bejon¹, Anthony Scott¹, Laura Hammit²
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LB-5120

The role of private retail outlets in malaria case management in three high transmission areas in Western Kenya

Eunice C. Kimeto¹, Lucy A. Abel¹, Jane Namae², Jeremiah Laktabai³, Diana Menya⁴, Wendy P. O'meara⁵
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LB-5121

Mosquitocidal effect of an ivermectin mass drug administration conducted for scabies control in the Solomon Islands

Christian Kositz, Michael Marks
London School of Hygiene and Tropical Medicine, London, United Kingdom

LB-5122

Mapping Imported Malaria in Minnesota: Identifying Communities at Risk

Elizabeth H. Lee¹, Robin H. Miller¹, Penny Masuoka¹, Elizabeth Schiffman², Danushka Wanduragala², Robert DeFrait¹, Stephen Dunlop³, William Stauffer⁴, Patrick Hickey¹

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LB-5123

Real-time photo-induced electron transfer PCR for supporting malaria elimination infection identification as part of a field trials in mass drug administration

Mulenga Mwenda¹, Sandra Chishimba¹, Conceptor Mulube¹, Brenda Mambwe¹, Moonga Hawela², Busiku Hamainza², Anthony Yeta², John M. Miller¹, Thomas Eisele³, Daniel Bridges¹

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LB-5124

Trends and socio-demographic profile among confirmed malaria cases in Kavango region (2010-2014); Namibia's highest endemic area; moving towards malaria elimination

Mwalenga Nghipumbwa¹, Walter Kizito², Kudakwashe C. Takarinda³, Petrina Uusiku¹
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LB-5125

Diagnostic practice for Suspected Malaria cases in Nigerian Private Sector Health Services: Challenges to Malaria Elimination in Nigeria

Ernest Nwokolo, Ifeanyichukwu Udoeye, Chinazo Ujuju, Oluwatola Isijola, Mopelola Raji, Sonachi Ezeiru
Society for Family Health, Nigeria, Abuja, Nigeria

LB-5126

Characterization of Pharmacodynamic Rate of Kill with Different Antimalarial Drugs in a Murine Malaria Model

Winter Okoth, David Sullivan
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

LB-5127

Investigating persistence of transgenic Plasmodium falciparum HRP2 protein produced by P. berghei in a novel murine model

Kristin E. Poti¹, Amanda Balaban¹, Priya Pal², Daniel Goldberg², Photini Sinnis¹, David J. Sullivan¹
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Washington University, St. Louis, MO, United States

LB-5128

Accounting for seasonality when resupplying facilities with malaria products: Application of the look-ahead seasonality index in Ethiopia

Naomi Printz¹, Sami Tewfik², Noel Watson³
¹John Snow, Inc., Arlington, VA, United States, ²John Snow, Inc., Addis Ababa, Ethiopia, ³OPSMEND, Boston, MA, United States

LB-5129

Artemisinin resistance-associated Plasmodium falciparum K13 polymorphisms in Rwanda, 2010-2015

Costanza Tacoli¹, Prabhanjan P. Gai¹, Claude Bayingana², Kevin Sifft¹, Dominik Geus¹, Jules Ndoli², Augustin Sendegeya², Jean B. Gahutu², Frank P. Mockenhaupt¹
¹Charité-Universitätsmedizin Berlin, Berlin, Germany, ²University Teaching Hospital of Butare, Butare, Rwanda

LB-5130

Assessing the Quality of Malaria Case Management in Private Hospitals across Six Regions in Nigeria using retrospective data from the National Health Management Information System (NHMIS)

Ifeanyichukwu Udoeye, Ernest Nwokolo, Christopher Dangana, Chinwoke Isiguzo, John Ocholi, Ikodiya Kalu, Deborah Mker
Society for Family Health, Nigeria, Abuja, Nigeria

LB-5131

Laboratory Supply Chain strengthening for malaria elimination

Chris Warren
John Snow, Inc., Arlington, VA, United States

LB-5132

Serial Brain Magnetic Resonance Imaging Reveals Posterior Reversible Encephalopathy Syndrome Commonly Associated with Increased Brain Volume in Cerebral Malaria

Sanjib Mohanty¹, Laura A. Benjamin², Megharay Majhi³, Premanand Panda³, Sam Kampondeni⁴, Praveen K. Sahu¹, Akshaya Mohanty⁵, Kishore C. Mahanta⁶, Rajyabardhan Pattnaik⁶, Rashmi R. Mohanty⁷, Sonia Joshi⁷, Anita Mohanty⁶, Ian W. Turnbull⁸, Arjen M. Dondorp⁹, Terrie E. Taylor¹⁰, **Sam C. Wassmer**¹¹

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LB-5133

Parasite clearance is pitting-dependent in patients treated with artemisinin-combined therapies and not in those treated with atovaquone-proguanil, mefloquine or quinine

Mariusz Wojnarski¹, Oussama Mouri², Camille Roussel³, Liliane Ciceron², Nathalie Chartrel², Marc Thellier², Pierre Buffet³, Alioune Ndour³
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²AP-HP, Centre National de Référence du Paludisme, Paris, France, ³Institut National de la Transfusion Sanguine, Université Paris Descartes /INSERM UMR_S 1134, Paris, France

LB-5134

Rationale for further development of a vaccine based on the circumsporozoite protein of Plasmodium vivax

Anjali Yadava, Norman C. Waters
WRAIR, Silver Spring, MD, United States

LB-5135

The malaria testing and treatment landscape in Benin

Cyprien Zinsou¹, Ghyslain Guedegbe¹, Adjibabi Bello Cherifath², The ACTwatch Group³
¹Association Béninoise Pour le Marketing Social, Cotonou, Benin, ²Benin Ministry of Health, Cotonou, Benin, ³Population Services International, Washington, DC, United States

LB-5136

Mobile suitcase laboratory for molecular detection of Dengue, Zika and Chikungunya viruses in 30 minutes

Ahmed Abd El Wahed¹, Pranav Patel², Sabri S. Sanabani³, Oumar Faye⁴, Rodrigo Pessôa³, João Veras Patriota⁵, Ricardo Rodrigues Giorgi⁶, Pauline Prüger⁷, Marco Kaiser⁸, Susanne Böhlken-Fascher¹, Sasikanya Thaloengsook⁹, Khajohnpong Manopwisedjaroen⁹, Ponpan Matangkasombut⁹, Sukathida Ubol⁹, Anavaj Sakuntabhai¹⁰, Olfert Landt², Isabelle Leparac-Goffart¹¹, Paolo M. de A. Zanotto³, Claus-Peter Czerny¹, Frank T. Hufert¹², Matthias Niedrig⁷, Amadou A. Sall⁴, Manfred Weidmann¹³

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LB-5137

Lassa fever: A silent creeper

Oladokun A. Adesunloye
Federal Medical Center, Lagos, Nigeria

LB-5138

Epidemiological and Clinical Features of Patients with Zika virus infection seen at Montefiore Medical Center in the Bronx, New York

Margaret Aldrich¹, Riku Moriguchi², Wendy Szymczak¹, Johanna Daily²
¹Montefiore Medical Center, Bronx, NY, United States, ²Albert Einstein College of Medicine, Bronx, NY, United States

LB-5139

Investigation of Deaths because of Suspected Yellow Fever, Angola 2016

Grace Appiah¹, Anna Yaffee¹, Eusebio Manuel², Jean Marie Kipelo³, John Kaiywa⁴, Elizabeth Hunsperger¹, Ray Arthur¹, Timothy Doyle¹
¹CDC, Atlanta, GA, United States, ²Ministry of Health, Angola, Luanda, Angola, ³WHO, Luanda, Angola, ⁴CDC Uganda, Entebbe, Uganda

LB-5140

The molecular basis of adverse events during yellow fever vaccination

Candice Y. Chan¹, Kuan Rong Chan¹, Xiaohui Wang¹, Esther S. Gan¹, Sujoy Ghosh², Jenny G. Low³, Eng Eong Ooi¹

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LB-5141

High estimated prevalence of asymptomatic dengue viremia during dengue outbreak in southern Taiwan, 2015: Implications for blood safety

YU-WEN CHIEN, Yu-Chen Shu, Kun-Ta Chuang, Chun-Yin Yeh, Guey-Chuen Perng, Wen-Chien Ko, Nai-Ying Ko
National Cheng Kung University, Tainan, Taiwan

LB-5142

Care of EVD Survivors at a private clinic in Monrovia, Liberia

Annabelle de St. Maurice¹, Romeo Orone², John Fankhauser³, Jerry Brown², Desmond Williams⁴, Kainne Dokubo⁴, Pierre Rollin¹, Mary Choi¹, Barbara Knust¹

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²ELWA Hospital, Monrovia, Liberia, ³ELWA Hospital, Monrovia, Liberia, ⁴Centers for Disease Control and Prevention, Monrovia, Liberia

LB-5143

Factors effecting immune Response to Oral Polio and Rotavirus Vaccine in India

Ayan Dey¹, Deok Ryun Kim¹, Ranjan K. Nandy², Suman Kanungo², Anuradha Sinha², Byomkesh Manna², Dipika Sur², Cecil Czerkinsky³, Thomas F. Wierzb⁴, Mohammad Ali⁵, William A. Petri⁶

¹International Vaccine Institute, Seoul, Korea, Republic of, ²National Institute of Cholera and Enteric Diseases, Kolkata, India, ³IPMC Nice-Sophia Antipolis, NICE, France, ⁴PATH, Washington DC, MD, United States, ⁵John Hopkins University, Baltimore, MD, United States, ⁶University of Virginia, Charlottesville, VA, United States

LB-5144

Hematologic Parameters of Acute Dengue Fever versus Other Febrile Illnesses in Ambulatory Returned Travelers

Dale A. Jechel¹, Rochelle G. Melvin¹, Farah Jazuli², Jordan Mah¹, Terence Lynd¹, Michael Klowak², Stefanie Klowak³, Sam Sabbah¹, Howard Ovens¹, Andrea K. Boggild¹

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LB-5145

Prevalence and types of chronic sequelae of acute dengue

Shirin Kalimuddin¹, Yvonne Fu Zi Chan¹, Jenny Guek Hong Low¹, Eng Eong Ooi²

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LB-5146

Interaction between hepatitis B and Schistosomiasis mansoni

Geraldine A. O'Hara¹, Remy Hoek Spaans², Richard E. Sanya², Christopher Zziwa², Moses Sewankambo², Josephine Tumusiime², Elson Abayo², Emily Webb¹, William M. Rosenberg³, Mala K. Maini³, Alison M. Elliott², and The LaVIISWA study team²

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²MRC/Uganda Virus Research Institute, Entebbe, Uganda, ³University College London, London, United Kingdom

LB-5147

Hematopoietic stem cells of megakaryocytic lineage populations are essential for viral tropism and pathogenesis in dengue patients

Guey Chuen Oscar Perng, Alan Yi-Hui Hsu, Jih-Jin Tsai, Po-Lin Chen, Tzu-Chuan Ho, Sia Seng Tan, Ya-Ping Chen, Tsai-Yun Chen, Meed Lee, Ping-Chang Li, Yu-Chih Lo, Shang-Rung Wu
National Cheng Kung University, Tainan, Taiwan

LB-5148

Latest Zika virus outbreak: Lessons learnt from the perspective of the "European Virus Archive goes Global (EVAg)" EU funded consortium

Christine M. Prat, Jean-Louis Romette
Aix Marseille University, Marseille, France

Poster Session 79

Poster Session B

Late Breakers in Basic Science/Molecular Biology

Tuesday, November 15, Noon - 1:45 p.m.

Hilton - Grand Ballroom and Grand Salon

Arthropods/Entomology	#LB-5156 through LB-5166
Cestodes	#LB-5167 through LB-5169
Helminths - Nematodes.....	#LB-5170 through LB-5184
Malaria	#LB-5185 through LB-5213
Viruses	#LB-5214 through LB-5225

LB-5156

Song of choice: Characterization of acoustic signals produced by the malaria vector *Anopheles albimanus*

Hoover Pantoja¹, Viviana Velez², Fredy Ruiz², Francisco Vargas¹, **Catalina Alfonso-Parra**³
¹SISTEMIC - Dept. de Ingeniería Electrónica, Universidad de Antioquia., Medellín, Colombia, ²Programa de estudio y control de enfermedades tropicales (PECET), Universidad de Antioquia., Medellín, Colombia, ³Instituto Colombiano de Medicina Tropical, Sabaneta, Colombia

LB-5157

Identification and molecular characterization of salivary proteins from *Anopheles gambiae* as receptors of *Plasmodium falciparum* salivary glands invasion

Andreza Campos Chagas¹, Eric Calvo², Frank Criscione¹, Kristen Lupih¹, Robert Alford¹, David A. O'Brochta¹
¹University of Maryland, Rockville, MD, United States, ²National Institutes of Health, Rockville, MD, United States

LB-5158

Suppression of indoor biting *Anopheles quadrianulatus* in South East of Zambia

Dingani Chinula¹, Chadwick Sikaala¹, Busiku Hamainza¹, Fredros Okumu², Pascalina Chanda³, Jenifer Stevenson⁴, Elizabeth Chizema-Kawesha³, Gerry Killeen⁵
¹National Malaria Control Centre, Ministry of Health of the Republic of Zambia, Lusaka, Zambia, ²Ifakara Health Institute, Dareslam, United Republic of Tanzania, ³Disease Surveillance, Control and Research, Ministry of Health of the Republic of Zambia, Lusaka, Zambia, ⁴Johns Hopkins, Bloomberg School of Public Health, Baltimore, MD, United States, ⁵Liverpool School of Tropical Medicine, Liverpool, United Kingdom

LB-5159

***Wolbachia* enhances Rift Valley fever virus infection in *Culex tarsalis* mosquitoes**

Brittany L. Dodson¹, Elizabeth S. Andrews², Michael Turell³, Jason L. Rasgon⁴
¹Pennsylvania State University, University Park, PA, United States, ²California Department of Health, Elk Grove, CA, United States, ³The United States Army Medical Research Institute for Infectious Diseases, Frederick, MD, United States, ⁴Pennsylvania State University, University Park, PA, United States

LB-5160

Isolation and identification of mosquito-borne viruses in Kenya

Fredrick L. Eyase¹, Shingo Inoue², Takeshi Nabeshima², Myat Myat Ngwe Tun², Albert Nyunja¹, Joel Lutomiah¹, Allan Ole Kwallah³, Leo Uchida⁴, Matilu Mwau³, Yoshio Ichinose², Kouichi Morita², Rosemary Sang³
¹United States Army Medical Research Unit-Kenya, Nairobi, Kenya, ²Institute of Tropical Medicine, Nagasaki University, Nagasaki, Japan, ³Kenya Medical Research Institute, Nairobi, Kenya, ⁴School of Veterinary Medicine, Rakuno Gakuen University, Hokkaido, Japan

LB-5161

High level of multiple paternities in *Glossina fuscipes* in Uganda

Agapitus B. Kato
Department of ZEF Sciences, College of Natural Sciences, Makerere University, Kampala, Uganda

LB-5162

Vector competence of diverse mosquito species for Zika virus

Hannah J. MacLeod, Yesseinia I. Anglero-Rodriguez, George Dimopoulos
Johns Hopkins University, Baltimore, MD, United States

LB-5163

The baseline prevalence of cutaneous leishmaniasis in the Volta Region of Ghana

Mba-Tihssommah Mosore¹, Seth Addo¹, Andy Asafu-Adjaye¹, Emmanuel K. Amoako¹, Eric Behene¹, Naiki Pupilampu², Philip K. Baidoo³, Kwadwo Koram¹, Daniel A. Boakye¹, Michael Wilson¹, Ousmane Faye⁴, Seydou Doumbia⁵

¹Noguchi Memorial Institute For Medical Research, Accra, Ghana, ²US Naval Research Unit 3, Ghana Detachment, Accra, Ghana, ³Department of Theoretical and Applied Biology, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁴Faculty of Medicine, Pharmacy of Odontostomatology, University of Bamako-USTTB, Bamako, Mali, ⁵Centre National d'Appui à la Lutte Contre la Maladie, Bamako, Mali, Bamako, Mali

LB-5164

Whole genome sequencing of the *Funestus* Subgroup reveals ancient mitochondrial capture in the malaria vector *Anopheles funestus*

Scott T. Small¹, Seth Redman², Neil F. Lobo¹, Lizette L. Koekomoer³, Chadwick H. Sikaala⁴, Daniel E. Neafsey², Nora J. Besansky¹

¹University of Notre Dame, South Bend, IN, United States, ²The Broad Institute of MIT and Harvard, Cambridge, MA, United States, ³Wits Research Institute for Malaria, Sandringham, South Africa, ⁴National Malaria Control Program, Lusaka, Zambia

LB-5165

Pyrethroid susceptibility status of *Anopheles darlingi* in the Brazilian Amazon

Izis M. Sucupira¹, Crissiane C. Reis¹, Rita L. Vizcaino Cabarrus², Lucy M. Impoinvil², Alexandre M. Oliveira², Audrey Lenhart², Marinete M. Povoá¹

¹Evandro Chagas Institute, Ananindeua, Brazil, ²Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5166

Characterizing *Aedes* Populations in High-Risk Communities in New Orleans, LA

Adeline Williams¹, Brendan Carter², Sarah Michaels², Sam Baker², Kallin Zehren², Claudia Riegel²

¹Yale School of Public Health, New Haven, CT, United States, ²New Orleans Mosquito, Termite & Rodent Control Board, New Orleans, LA, United States

LB-5167

Characterization of *Taenia solium* postoncospherical form antigens as potential Neurocysticercosis diagnostic targets

Nancy Chile¹, Beth J. Condori¹, Edson G. Bernal², Roxana C. Medina², Manuela R. Verastegui¹, Robert H. Gilman³

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Universidad Nacional del Altiplano, Puno, Peru, ³Johns Hopkins University, Baltimore, MD, United States

LB-5168

Fate of *Taenia solium* eggs after ingestion by *Ammophorus* and *Aphodius* beetles

Luis A. Gomez-Puerta

Universidad Nacional Mayor de San Marcos, Lima, Peru

LB-5169

Identification of *Taenia solium*-specific microRNAs

Cristina Guerra-Giraldez¹, Miguel Angel Orrego¹, Gabriel Sevillano¹, Carla Cangalaya¹, Carmelle T. Norice-Tra², Siddhartha Mahanty², Michał W. Szczeńniak³, Theodore E. Nash²

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²National Institutes of Health, Bethesda, MD, United States, ³Adam Mickiewicz University, Poznan, Poland

LB-5170

Microfilaria-induced IgG4 antibodies modulate granulocyte functions in a FcγRI/II and SHIP1-dependent mechanism

Tomabu Adjobimey, Fabien Prodjinotho, Charlotte von Horn, Anna Albers, Achim Hoerauf

Institute for Medical Microbiology, Immunology and Parasitology, Bonn, Germany

LB-5171

Relative efficacy of two regimens to control soil transmitted infections among impoverished preschool children in Bangladesh

Masud Alam¹, Walid Omer², Jeffrey Donowitz³, Farida Nazib⁴, Dinesh Mondal¹, Rashidul Haque¹, William Petri⁵

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LB-5172

Evaluation of a tetravalent rBmHAXT protein as a potential vaccine candidate against Lymphatic Filariasis

Priyankana Banerjee, Nikhil Chauhan, Andrew Canciamille, Jessica Gorman, Lochana Seenappa, Vishal Khatri, Ramaswamy Kalyanasundaram
University of Illinois, Rockford, IL, United States

LB-5173

Knowledge, Attitude and Practice related to Lymphatic Filariasis and Mass Drug Administration in Papua New Guinea

Krufinta Bun

Case Western Reserve University, Cleveland, OH, United States

LB-5174

Improving the efficacy of a prophylactic vaccine formulation against lymphatic filariasis

Nikhil Chauhan, Vishal Khatri, Lochana Seenappa, Priyankana Banerjee, Andrew Canciamille, Jessica Gorman, Steven Whitlow, Ramaswamy Kalyanasundaram
University of Illinois, Rockford, IL, United States

LB-5175

Tephrosin, a known anti-cancer agent exhibits ex vivo anthelmintic activity but NOT in vivo

Blaise Dondji¹, Kaitlin L. Deardorff¹, Kiah Jones¹, Brianda Cardenas-Garcia¹, Jocelyn McCornack¹, Lindsay Engels¹, Haley Wolhart², Nicholas Hansen², Shannon Fulkerson¹, Cassandra Ripley¹, Gil Belofsky²
¹Laboratory of Cellular Immunology & Parasitology, Department of Biological Sciences, Central Washington University, Ellensburg, WA, United States, ²Department of Chemistry, Central Washington University, Ellensburg, WA, United States

LB-5176

Immune profile of Honduran schoolchildren with intestinal parasites: The skewed response against geohelminths

Jose A. Gabrie¹, Maria M. Rueda², Carol A. Rodriguez², Maritza Canales², Ana L. Sanchez¹
¹Brock University, St. Catharines, ON, Canada, ²National Autonomous University of Honduras, Tegucigalpa, Honduras

LB-5177

Stage Specific Host Immuno-modulation by Exosome Like-Vesicles (ELVs) released by the Filarial Parasitic Nematode, *Brugia malayi*

Hiruni Harischandra¹, Mostafa Zamanian², Michael J. Kimber¹
¹Iowa State University, Ames, IA, United States, ²Northwestern University, Evanston, IL, United States

LB-5178

Characterization of a Sox2 pathway in postembryonic schistosomes

Emmitt R. Jolly, Stephanie Wood, Kenji Ishida, Anida Karahoza, Janay Jones
Case Western Reserve University, Cleveland, OH, United States

LB-5179

Evaluation of a tetravalent recombinant prophylactic vaccine against lymphatic filariasis in Rhesus macaque model

Vishal Khatri¹, Nikhil Chauhan¹, Kanchan Vishnoi¹, Agneta von Gegerfelt², Courtney Gittens², Ramaswamy Kalyanasundaram¹
¹University of Illinois, Rockford, IL, United States, ²Bioqual Inc., Rockville, MA, United States

LB-5180

Dihydropyridine Cav1.3 calcium channel blockers induce rapid paralysis of adult female *Brugia malayi* parasites and complete inhibition of microfilariae release

Tamara Kreiss, Agnieszka Chojnowski, Monika Prorok, Zein Kasbo, John J. Siekierka
Montclair State University, Montclair, NJ, United States

LB-5181

The genetic polymorphisms of the human chitotriosidase (CHIT1) gene to bancroftian filariasis at Thai-Myanmar border

Surang Nuchprayoon

Chulalongkorn University, Faculty of Medicine, Dept. Parasitology, Bangkok, Thailand

LB-5182

Field Performance of a Circulating Cathodic Antigen Rapid Test At Point-Of-Care for Mapping Schistosomiasis-Endemic Districts in Gambia

Bakary Sanneh¹, Kristen Renneker², Joof Ebrima¹, Sanyang M. Abdoullie¹, Camara Yaya¹, Sambou M. Sana¹, Sey A. Papa¹, Jagne Sherifo¹, Baldeh Ignacious¹, Louis-Albert Tchuem Tchuente³, **Kisito T. Ogoussan**², Patrick Lammie²

¹National Public Health Laboratories, Ministry of Health and Social Welfare, The Gambia, Banjul, Gambia, ²Neglected Tropical Diseases Support Center, Decatur, GA, United States, ³World Health Organization, Inter-country Support Team, WHO AFRO Region Burkina Faso, Ouagadougou, Burkina Faso

LB-5183

Characterization of a *Brugia malayi* (*B. malayi*) protein kinase, Bma-SEK1, an upstream activator of the anti-ROS stress-activated *B. malayi* protein kinase Bma-PMK1a: Potential as an anti-filarial drug target

Monika Prorok, Agnieszka Chojnowski, Tamara Kreiss, John J. Siekierka
Montclair State University, Montclair, NJ, United States

LB-5184

Effects of Low Doses of Reformulated Oral Flubendazole in the *Brugia/Jird* Model of Infection

Judy Sakanari¹, Chelsea Bidlow¹, KC Lim¹, Jiri Gut¹, Iosune Ibiricu Urriza¹, Marc Engelen², Ludo Quiryen², Sophie Lachau-Durand²

¹Univ. of California San Francisco, San Francisco, CA, United States, ²Janssen Pharmaceutica, Beerse, Belgium

LB-5185

Use of machine learning to understand the differences in pathology between adult and pediatric severe malaria

Maria Bernabeu¹, Samuel A. Danziger¹, Marina Vaz², Christian W. Wang³, Thurston Herricks⁴, Jennifer N. Maki⁴, Laura Chery⁴, Edwin Gomes², Thomas Lavstsen³, Pradipsinh K. Rathod⁴, John Lusingu⁵, John D. Aitchison¹, Joseph D. Smith¹
¹Center for Infectious Disease Research, Seattle, WA, United States, ²Department of Medicine, Goa Medical College & Hospital, Goa, India, ³Department of International Health, Immunology, and Microbiology, University of Copenhagen, Copenhagen, Denmark, ⁴Department of Chemistry, University of Washington,

Seattle, WA, United States, ⁵National Institute for Medical Research, Tanga Medical Research Centre, Tanga, United Republic of Tanzania

LB-5186

Functional characterization of a brain-specific CIDR α 1.7-PfEMP1 variant suggests a role in the pathogenesis of pediatric cerebral malaria

Selasi Dankwa, Nicholas Dambrauskas, Noah Sather, Joseph Smith
Center for Infectious Disease Research, Seattle, WA, United States

LB-5187

DREAM Challenge: Utilizing whole transcriptome drug perturbation responses of Southeast Asian malaria isolates to predict the efficacy of artemisinin and artemisinin drug combinations in vitro

Sage Z. Davis¹, Katrina A. Button-Simons¹, Gabriel J. Foster¹, Lisa A. Checkley¹, Katelyn M. Vendrely¹, Marina McDew-White², Francois H. Nosten³, Timothy J. Anderson², Geoffrey H. Siwo⁴, Michael T. Ferdig¹
¹University of Notre Dame, Notre Dame, IN, United States, ²Texas Biomedical Research Institute, San Antonio, TX, United States, ³Shoklo Malaria Research Unit Mahidol-Oxford Tropical Medicine Research Unit, Mahidol, Thailand, ⁴IBM Research – Africa Catholic University Campus, Nairobi, Kenya

LB-5188

CONTRIBUTION OF RAPID DIAGNOSIS TEST IN MALARIA CASE MANAGEMENT STRATEGY IN SENEGAL

MAMADOU L. DIOUF
NMCP, DAKAR, Senegal

LB-5189

Mouse and Rhesus monkey immunogenicity studies with two AS01-adjuvanted Circumsporozoite protein (CSP) vaccine antigens: RTS,S and FMP013

Sheetij Dutta¹, Timothy Phares¹, Nathan Hoyt¹, Christopher Genito¹, Norman C. Waters¹, David Franco², Yannick Vanloubbeec²
¹WRAIR, Silver Spring, MD, United States, ²GSK Vaccines, Rixensart, Belgium

LB-5190

Program design and intervention control sequences for sustained suppression of transmission in two high-burden Ugandan subcounties, an operational research study guided by simulation

Dorothy Echodu¹, Richard Elliott², Humphrey Wanzirah³, Katy Hurd⁴, Catherine Maiteki⁵, M. Lugemwa⁶, A. Yeka⁷
¹*Pilgrim Africa, Seattle, WA, United States*, ²*Boise State University, Boise, ID, United States*, ³*University of Trieste, Trieste, Italy*, ⁴*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*, ⁵*Makerere University, Kampala, Uganda*, ⁶*National Malaria Control Program, Ministry of Health, Kampala, Uganda*, ⁷*School of Public Health, Makerere University, Kampala, Uganda*

LB-5191

Morphological and transcriptional developmental readouts during the intraerythrocytic cell cycle progression of artemisinin resistant Plasmodium falciparum isolates

Gabriel J. Foster¹, Sage Z. Davis¹, Lisa A. Checkley¹, Timothy J. Anderson², Marina McDew-White², François H. Nosten³, Michael T. Ferdig¹
¹*University of Notre Dame, Notre Dame, IN, United States*, ²*Texas Biomedical Research Institute, San Antonio, TX, United States*, ³*Mahidol University, Mae Sot, Thailand*

LB-5192

Polymorphisms in drug resistance associated genes in Plasmodium falciparum after introduction of Artemisinin based combination therapy in Southern Pakistan

Najia K. Ghanchi, Hadiqa Raees, Bushra Qureshi, Mohammad A. Beg
Aga Khan University, Karachi, Pakistan

LB-5193

The malaria parasite resistome: An in-depth study of the genome's response to potential therapeutic molecules

Purva Gupta, Elizabeth A. Winzeler, On behalf of The Malaria Drug Target Identification Project Consortium
School of Medicine, University of California San Diego, La Jolla, CA, United States

LB-5194

Genetic characteristics of Plasmodium falciparum found in subjects randomized to

discontinuation versus continuation of cotrimoxazole prophylaxis

Dennis W. Juma

U.S Army Medical Research Directorate-Kenya, Kisumu, Kenya

LB-5195

EPCR-binding and rosetting PfEMP1 variants are enriched in Malawian children with retinopathy positive cerebral malaria and increased brain volume

Anne Kessler¹, Visopo Harawa², Samuel A. Danziger³, Maria Bernabeu³, Sam D. Kampondeni⁴, Michael J. Potchen⁵, Wilson L. Mandala², Stephen J. Rogerson⁶, John D. Aitchison³, Terrie E. Taylor⁴, Sarah Hochman⁷, Wenzhu Mowrey¹, Karl Seydel⁴, Joseph D. Smith³, Kami Kim¹
¹*Albert Einstein College of Medicine, Bronx, NY, United States*, ²*University of Malawi-College of Medicine, Blantyre, Malawi*, ³*Center for Infectious Disease Research, Seattle, WA, United States*, ⁴*Blantyre Malaria Project, Blantyre, Malawi*, ⁵*University of Rochester Medical Center, Rochester, NY, United States*, ⁶*The University of Melbourne, Melbourne, Australia*, ⁷*New York University Langone Medical Center, New York, NY, United States*

LB-5196

To dam or not to dam: The impact of dams on malaria transmission in the face of climate change in sub-Saharan Africa

Solomon Kibret¹, Jonathan Lautze², Matthew McCartney³
¹*University of California Irvine, Irvine, CA, United States*, ²*International Water Management Institute, Pretoria, South Africa*, ³*International Water Management Institute, Vientiane, Lao People's Democratic Republic*

LB-5197

Infection of human hepatocytes with sporozoites of Plasmodium ovale spp. derived from patients with imported malaria

Mojca Kristan, Mary Oguike, Samuel G. Thorburn, Donnelly A. van Schalkwyk, Juliana M. Tucker, Julius C. Hafalla, Colin J. Sutherland
London School of Hygiene & Tropical Medicine, London, United Kingdom

LB-5198

Robust detection of minority clones by amplicon deep sequencing in experimental Plasmodium falciparum mixtures and field samples

Anita Lerch¹, Cristian Koepfli², Camilla Messerli¹, Ivo Mueller², Ingrid Felger¹
¹*Swiss Tropical and Public Health Institute, Basel, Switzerland*, ²*Walter and Eliza Hall Institute, Parkville, Australia*

LB-5199

Characterization of a novel dense granule protein in *Plasmodium falciparum* merozoite

Masayuki Morita¹, Eizo Takashima¹, Hikaru Nagaoka¹, Bernard N. Kanoi¹, Daisuke Ito¹, Ji-Won Lee¹, Kazuaki Tokunaga², Tadahiro Iimura¹, Motomi Torii¹, Takafumi Tsuboi¹

¹Ehime University, Matsuyama, Japan, ²Nikon Instech Co., LTD., Tokyo, Japan

LB-5200

Upregulation of the thioredoxin system in *Plasmodium* parasites lacking the gamma-glutamylcysteine synthetase gene

Jesus F. Muniz

UPR-School of Medicine, San Juan, PR, United States

LB-5201

In vitro stimulation of human peripheral blood mononuclear cells with *Plasmodium falciparum*-infected red blood cells under approximates the transcriptional activity induced during acute febrile malaria

Srinivas Nallandhighal¹, Silvia Portugal², Jacqueline Moebius², Daniel E. Sturdevant³, Ogobara K. Doumbo⁴, Stephen F. Porcella³, Boubacar Traore⁴, Peter D. Crompton², Tuan M. Tran¹

¹Indiana University School of Medicine, Indiana University, Indianapolis, IN, United States,

²Laboratory of Immunogenetics, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ³Rocky Mountain Laboratory Research Technologies Section, Genomics Unit, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Hamilton, MT, United States, ⁴Mali International Center of Excellence in Research, University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali

LB-5202

A *Plasmodium falciparum* VAR2CSA DBL4ε specific monoclonal antibody mapped to an interface between DBL3X and DBL4ε blocks infected-RBC binding to Chondroitin Sulfate A

Martin Burkhardt¹, Raul Herrera¹, Joan Aebig¹, Harold T. Obiakor¹, Justin Doritchamou¹, Vu Nguyen¹, Karine Reiter¹, Karine Reiter¹, Samuel Moretz¹, Robert Morrison¹, Michal Fried¹, Apostolos Gittis², Nicholas J. MacDonald¹, Patrick E. Duffy¹, **David L. Narum**¹

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

LB-5203

Comparative transcriptomics of *Plasmodium falciparum* piggyBac mutants to discern regulatory roles of the CCR4-NOT complex

Jenna Oberstaller, Swamy Adapa, Xiangyun Liao, Christina Komandosky, Suzanne Li, Kenneth Udenze, Min Zhang, Rays Jiang, John Adams

University of South Florida, Tampa, FL, United States

LB-5204

Ex vivo studies of a 'reversed chloroquine' candidate against field isolates from Uganda

David Peyton¹, Roland A. Cooper², Phil Rosenthal³, Stephanie Rasmussen⁴, Melissa Forbush⁵, Patrick Tumwebaze⁶, Frida Ceja⁴, Samuel Nsohya⁶, John Tan⁷, Melissa Stephens⁷, Scott Emrich⁷, Michael Ferdig⁷

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³University of California, San Francisco, San Francisco, CA, United States, ⁴Dominican University of California, San Rafael, CA, United States, ⁵Dominican University of California, San Rafael, CA, United States, ⁶Infectious Diseases Research Collaboration, Kampala, Uganda, ⁷University of Notre Dame, Notre Dame, IN, United States

LB-5205

Assessing malaria transmission intensity in a low endemic area of the Peruvian Amazon using parasitological and serological surveys

Viviana Pinedo-Cancino¹, G. Christian Baldeviano², Katty M. Arista¹, Edward S. Smith², Julio A. Ventocilla², Saby Pinedo¹, Adriano Franco², Andrey Arana¹, Vince R. Gerbas², Sarah B. Ballard², Andres G. Lescano³, Lastenia Ruiz-Mesia¹

¹Centro de Investigación de Recursos Naturales de la Amazonía, Universidad Nacional de la Amazonía Peruana, Iquitos, Peru, ²U.S. Naval Medical Research Unit Nro. 6, Callao, Peru, ³Facultad de Salud Pública y Administración, Universidad Peruana Cayetano Heredia, Lima, Peru

LB-5206

Role of Codon Composition on *P. falciparum* CelTOS Expression and Folding

Neeraja Punde¹, Patricia Legler², Evelina Angov¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Naval Research Laboratories, Washington, DC, United States

LB-5207

Absence of Plasmodium falciparum K13 propeller SNPs 15 years after incorporating ACTs into treatment guidelines in the Peruvian Amazon

Keare A. Barazorda¹, **Carola J. Salas**¹, Salomon Durand¹, Carmen M. Lucas¹, Sarah B. Ballard¹, Robert V. Gerbasi²
¹US NAMRU-6, Lima, Peru, ²NMRC, Silver Spring, MD, United States

LB-5208

A search for blood-induced promoters in Asaia sp. SF2.1 a midgut symbiont of the Anopheles vector

Jackie L. Shane, David J. Lampe
Duquesne University, Pittsburgh, PA, United States

LB-5209

Supporting Malaria Elimination in the Asia Pacific using mathematical modelling

Sheetal Prakash Silal¹, Rima Shretta², Lisa J. White³
¹University of Cape Town, Cape Town, South Africa, ²University of California San Francisco, San Francisco, CA, United States, ³University of Oxford, Oxford, United Kingdom

LB-5210

Evaluation of wild and sterile Lantana camara against Anopheles arabiensis and Anopheles gambiae in rural Tanzania

FRANK S. TENYWA, Athumani Hashim Kambagha, Marta Ferreira Maia
IFAKARA HEALTH INSTITUTE, BAGAMOYO, United Republic of Tanzania

LB-5211

Preliminary assessment of the new Intermittent Preventive Treatment of malaria in pregnancy (IPTp) implementation strategy in Ghana

Isabella Quakyi¹, **Bernard Tornyigah**², Gilles Cottrell³, Kwadwo A. Kusi², Michael F. Ofori², Emmanuel K. Dickson², Nathaniel Coleman¹, Bernard B. Bortei¹, Judith Stephens¹, George O. Adjei¹, Patience A. Mamattah⁴, Dorcas H. Okine⁵, Linda Vanotoo⁶, Amos Laar¹, Gloria Q. Asare⁶, Pascal Houze⁷, Jérôme Clain³, Julius Fobil¹, Michel Cot³, Kwabena M. Bosompem², Nicaise T. Ndam³
¹University of Ghana School of Public Health, Accra, Ghana, ²Noguchi Memorial Institute for Medical Research, Accra, Ghana, ³UMR216-Institut de

Recherche pour le Développement & Université Paris Descartes, Paris, France, ⁴Kpone-Katamanso District Health Directorate, Tema, Ghana, ⁵Maamobi general hospital, Accra, Ghana, ⁶Ghana Health Service, Accra, Ghana, ⁷Laboratoire de Biochimie, secteur de chromatographie, Hôpital Saint Louis, Paris, Paris, France

LB-5212

Mathematical modeling shines light into the dark alleys of malaria

Luis L. Fonseca¹, Chet Joyner², Mary R. Galinski², Malaria Host-Pathogen Interaction Center (MaHPIC)³, **Eberhard O. Voit**¹
¹Georgia Tech, Atlanta, GA, United States, ²Emory University, Atlanta, GA, United States, ³Emory, Georgia Tech, University of Georgia, Atlanta, GA, United States

LB-5213

Vδ2 T cell expansion after chemoprophylaxis vaccination predicts protection against liver stage infection

Irfan Zaidi¹, Grace Lee¹, Aarti Kolluri¹, Agnes Mwakingwe¹, Jennifer C. Hume¹, Jacqueline Lane¹, Charles Anderson¹, B Kim Lee Sim², Peter Billingsley², Eric James², Thomas L. Ritchie³, Stephen L. Hoffman², Sara A. Healy¹, Patrick E. Duffy¹
¹National Institute of Health, Rockville, MD, United States, ²Sanaria Inc., Rockville, MD, United States, ³Sanaria, Rockville, MD, United States

LB-5214

The most divergent strain of dengue virus to date

John Aaskov¹, Paul Pickering², Edward C. Holmes³, Duchene Sebastian⁴, Wenjun Liu²
¹Queensland University of Technology, Brisbane, Australia, ²Australian Army Malaria Institute, Brisbane, Australia, ³University of Sydney, Sydney, Australia, ⁴University of Sydney, Sydney, Australia

LB-5215

The DNA sensor cGAS detects dengue virus infection and it is degraded by the NS2B protein

Sebastian Aguirre
Icahn School of Medicine at Mount Sinai, New York City, NY, United States

LB-5216

Phylogenetic and phylogeographic patterns of Eastern equine encephalitis virus in the New World

Albert Jonathan Auguste
The University of Texas Medical Branch, Galveston, TX, United States

Poster Session B

Late Breakers in Basic Science/Molecular Biology

Tuesday, November 15, Noon - 1:45 p.m.

LB-5217

Development of a multiplex PCR assay for the detection of Ebola, Marburg, and Lassa viruses on the Luminex MagPIX

Christina Douglas, Leonard Wasieloski, Amanda Graham, Timothy Minogue
USAMRIID, Fort Detrick, MD, United States

LB-5218

Preclinical Development of a Vaccine and post exposure prophylaxis against Henipavirus Viral Infections

Timothy Fouts¹, Kathryn Bobb¹, Hao Yu¹, Antony Dimitrov¹, Terry Higgins¹, Marc Tremblay¹, Chad Mire², J. B. Geisbert², Robert Cross², Christopher Broder³
¹*Profectus BioSciences, Baltimore, MD, United States*, ²*University of Texas Medical Branch, Galveston, TX, United States*, ³*Uniformed Services University, Bethesda, MD, United States*

LB-5219

Investigation of the Last Confirmed Case of Ebola Virus Disease from the 2014 - 2015 Outbreak in Sierra Leone: A Multi-Disciplinary Approach

Rebecca S. Levine¹, Daniel Feikin¹, Ute Stroehrer¹, Shivam Shinde², Katharine Benedict¹, Sorie Conteh³, Kathy Hageman¹, Stephanie Ngai¹, Brima Kamarā³, Emmanuel Conteh³, Jonathan Yoder¹, Mercedes Tatay², Robert Musoke², Sanjeev Tanwar², Judith Starkulla⁴, Shannon Whitmer¹, Matthew Cotten⁵, Raoul E. Wadoum⁶, Ian Goodfellow⁷, Umaru Jah⁶, Paul Kellam⁵, Luke Meredith⁷, Dhamari Naidoo², My Phan⁵, Andrew Rambaut⁸, Stuart Nichol¹, Sharmila Shetty¹, Sara Hersey¹, John T. Redd¹
¹*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ²*World Health Organization, Makeni, Sierra Leone*, ³*Ministry of Health and Sanitation, Makeni, Sierra Leone*, ⁴*World Health Organization, Geneva, Switzerland*, ⁵*Wellcome Trust Sanger Institute, Hinxton, United Kingdom*, ⁶*University of Makeni, Makeni, Sierra Leone*, ⁷*University of Cambridge, Cambridge, United Kingdom*, ⁸*University of Edinburgh, Edinburgh, United Kingdom*

LB-5220

Multiplex and High Resolution Melting PCR for Sapovirus Genotyping

Gerardo J. Sánchez¹, Alexandra Prado¹, Robert H. Gilman², Karen E. Neira¹, Maria G. Oyola¹, Mayra R. Ochoa¹, Macarena D. Vittet¹, Jorge M. Fernandez¹, Maria C. Villegas¹, Noelia S. Coronado¹, Claudina

Sancho¹, Fabiola D. Colquechagua¹, Sarah-Blythe Ballard², Mayuko Saito³, **Holger Mayta**¹
¹*Department of Cellular and Molecular Sciences, Universidad Peruana Cayetano Heredia, San Martin de Porres, Peru*, ²*Department of International Health, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*, ³*Department of Virology, Tohoku University Graduate School of Medicine, Sendai, Japan*

LB-5221

Chimeric Reporter Viruses for Fast and High Throughput Micro-Neutralization Assays for Zika and Dengue Viruses

Yee Tsuey Ong, Elizabeth A. Dietrich, Karen L. Boroughs, Janae L. Stovall, Claire Y.-H. Huang
Centers for Disease Control and Prevention, Fort Collins, CO, United States

LB-5222

The molecular epidemiology and evolution of respiratory syncytial virus in Peru

S. Pollett¹, Y. Tan², S. Das², R. Halpin², D. Wentworth², C. Viboud³, I. Maljkovic-Berry¹, R. Jarman¹, M. Leguia⁴, V. Ocaña⁵, S. Mendocilla⁶, M. Calisto⁷, E. Halsey⁴, M. Nelson³, J. Ampuero⁴
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LB-5223

Persistence, diversity and dispersal of the dengue-2 American-Asian genotype in South America

Simon Pollett, Irina Maljkovic-Berry, Richard J. Jarman
Walter Reed Army Institute of Research, Silver Spring, MD, United States

LB-5224

Dengue virus activates cGAS through release of mitochondrial DNA

Bo Sun, Karin Sundstrom, Jun Jie Chew, Choon Kit Tang, Eng Eong Ooi
Duke-NUS Medical School, Singapore, Singapore

Poster Session B

Late Breakers in Basic Science/Molecular Biology

Tuesday, November 15, Noon - 1:45 p.m.

LB-5225

Serum antibody response and dengue virus cross-reactivity profiling after Zika virus infection in rhesus macaques

John C. Tan¹, Emma L. Mohr², Adam Bailey³, Adam Ericson³, Connor Buechler³, Dawn M. Dudley³, Christina Newman³, Mariel S. Mohns³, Meghan E. Breitbach³, Laurel Stewart³, Sarah J. Barilovits¹, Jigar Patel¹, David H. O'Connor³

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Poster Session 79

Poster Session B

Late Breakers in Clinical Tropical Medicine

Tuesday, November 15, Noon - 1:45 p.m.

Hilton - Grand Ballroom and Grand Salon

Cestodes	#LB-5226 through LB-5230
Global Health.....	#LB-5231 through LB-5243
Helminths - Nematodes.....	#LB-5244 through LB-5255
HIV and Tropical Co-Infections.....	#LB-5256 through LB-5259
Malaria	#LB-5260 through LB-5283
Pneumonia, Respiratory Infections and Tuberculosis	#LB-5284 through LB-5288
Viruses	#LB-5289 through LB-5301

LB-5226

Community Perceived Barriers and Solutions to Case Reporting of *T. solium* Parasitized Pigs in Cysticercosis Endemic Peru

Michelle Beam¹, Ruth Atto², Lauralee Fernandez¹, Sandra Olaya², Claudio Muro², Ricardo Gamboa Moran², Percy Vilchez², Angela Spencer³, Luz Maria Moyano², Hector H Garcia⁴, Seth O'Neal¹

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LB-5227

Peritonitis due to Cystic Echinococcosis in a young immigrant from Romania

Maria Teresa Giordani¹, Domenico Vespa¹, Gian Maria Rossi¹, Daniela Danieli¹, Enrico Brunetti²

¹San Bortolo Hospital, Vicenza, Italy, ²University of Pavia, Pavia, Italy

LB-5228

FEATURES OF PEDIATHRIC ECHINOCOCCOSIS AT HIGH ALTITUDE: A FIVE-YEAR CASE SERIES STUDY IN THE PERUVIAN ANDES

Jorge G. Hernandez-Cordova¹, Ovido Flores Quispe²

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Ministerio de Salud, Cusco, Peru

LB-5229

Human Tapeworms: Characterisation of Diphyllbothriasis and Taeniasis in Tokyo, Japan 2011-2015

Tokio Hoshina¹, Kayoko Yamaji¹, Seiji Hori², Hiroataka Kanuka¹

¹Department of Tropical Medicine, The Jikei University School of Medicine, Tokyo, Japan,

²Department of Infectious Disease and Control, The Jikei University School of Medicine, Tokyo, Japan

LB-5230

Lung and liver cystic echinococcosis - Long term mortality after surgical treatment

Saul J. Santivanéz¹, Maria Valcarcel², Luis Tello¹, Maira Arce¹, Diego Valencia¹, Lawrence H. Moulton³, Hector H. Garcia⁴

¹Instituto Peruano de Parasitología Clínica y Experimental, Lima, Peru, ²Hospital Nacional Dos de Mayo, Lima, Peru, ³Johns Hopkins Bloomberg School of Public Health., Baltimore, MD, United States, ⁴Universidad Peruana Cayetano Heredia, Lima, Peru

LB-5231

Reported history of measles and long-term impact on acute infectious disease morbidity among children 6-59 months of age in the Democratic Republic of Congo

Hayley Ashbaugh, James D. Cherry, Adva Gadoth, Vivian H. Alfonso, Anne W. Rimoin
University of California Los Angeles, Los Angeles, CA, United States

LB-5232

Evaluating Zika Risk Communications in the Workplace: Measuring Comprehension and Attitudes toward Zika Prevention

Amanda Brown Marusiak¹, Susan Ngunjiri², Mary C. Simmons³, Malick Diara³

¹Cenergy Partners, Spring, TX, United States, ²Fircroft, Spring, TX, United States, ³ExxonMobil Corporation, Spring, TX, United States

LB-5233

A Framework For a Bilateral Partnership In Tropical Disease Research: Reflections From Undergraduate Student Fieldwork With Chagas Disease

Lorelei Cropley¹, Eric Dumonteil², Claudia P. Herrera³

¹Undergraduate Studies, School of Public Health and Tropical Medicine, Tulane University, New Orleans, LA, United States, ²Department of Tropical Medicine, School of Public Health and Tropical Medicine, Tulane University, New Orleans, LA, United States, ³Vector-Borne Infectious Disease Research Center, School of Public Health and Tropical Medicine, Tulane University, New Orleans, LA, United States

LB-5234

Exploring Reg1B as a potential marker of intestinal health and growth predictor in Bangladeshi children

Allissia A. Gilmartin¹, Miao Lu¹, N. M. Shahedul Haque², Jennie Ma¹, Rashidul Haque², William A. Petri¹

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LB-5235

Using of a smooth function to set the cut-off of lactulose-mannitol ratio for defining tropical enteropathy

Deok Ryun Kim¹, Mohammad Ali², Ju Yeon Park¹, Yun Chon¹, Bishaka Haldar³, Anuradha Sinha³, Ayan Dey¹, Ranjan Kumar Nandy³, Suman Kanungo³
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LB-5236

Health Professionals' Views and Perceptions on Post-Mortem Procedures for Cause of Death Determination in Mozambique

Maria Maixenchs¹, Rui Anselmo², Eusébio Macete², Paola Castillo¹, Miguel J. Martínez¹, Jaume Ordi¹, Clara Menéndez¹, Quique Bassat¹, Khátia Munguambe²

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LB-5237

Developing Ebola Survivor Support Networks in West Africa: Experience, Challenges and Lessons Learnt

Amos Ndhere¹, Alexandre Delamou², Francis Kombe³

¹ACE Research, Kisumu, Kenya, ²University of Conakry, Conakry, Guinea, ³KEMRI-Wellcome Trust Research, Kilifi, Kenya

LB-5238

A Community transport strategy to address emergency obstetric care needs in Maputo and Gaza provinces, Mozambique

Felizarda E. Nhacolo¹, Helena Boene¹, Sharla Debrit², Marianne Vidler², Anifa Valá¹, Eusebio Macete³, Peter Von Dadelszen⁴, Esperança Sevens⁵, Khátia Munguambe⁵

¹Centro de Investigacao em Saude da Manhica, Manhica, Mozambique, ²University of British Columbia, Vancouver, BC, Canada, ³Centro de Investigacao em Saude da Manhica and Ministério da Saúde, Manhica, Mozambique, ⁴University of London, London, United Kingdom, ⁵Centro de Investigacao em Saude da Manhica and Universidade Eduardo Mondlane, Manhica, Mozambique

LB-5239

Global Health Security Agenda: A Coordination platform for International Collaboration

Stephanie R. Petzing, Summer E. Galloway
U.S. Department of Defense, Washington, DC, United States

LB-5240

A Cluster of A Rare Congenital Defect in Tanzania

Tara Rick
St Catherine University, St Paul, MN, United States

Poster Session B

Late Breakers in Clinical Tropical Medicine

Tuesday, November 15, Noon - 1:45 p.m.

LB-5241

Health Facility Preparedness For Management Of Obstetric Emergencies, In Southern Mozambique

Anifa Vala¹, Salésio Macuacua¹, Raquel Catalão¹, Helena Boene¹, Marianne Vidler², Orvalho Augusto³, Eusébio Macete⁴, Mohsin Sidat³, Clara Menéndez⁵, Khátia Munguambe³, Peter Von Dadelszen⁶, Esperança Sevene³

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LB-5242

Network Activity of Influenza Surveillance in South and Southeast Asia

Tippa Wongstitwilairoong¹, Sanjaya Kumar Shrestha², John Mark Velasco³, Lon Chanthap¹, Chonticha Klungtong¹, Thippawan Chuenchitra¹, Darunee Buddhari⁴, Tandin Dorji⁵, Philip L. Smith¹, Louis R. Macareo¹, John P. Maza¹

¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²Walter Reed/AFRIMS Research Unit, Nepal, Kathmadu, Nepal, ³Philippines/AFRIMS Virology Research Unit, Manila, Philippines, ⁴Kamphaeng Phet/AFRIMS Virology Research Unit, Kamphaeng Phet, Thailand, ⁵Department of Public Health, Thimphu, Bhutan

LB-5243

RISK FACTORS ASSOCIATED WITH THE TRANSMISSION OF MALARIA IN AN NON AMAZONIC AREA IN NORTHWEST OF COLOMBIA

Maria F. Yasnot, Maira L. Raciny, Virginia C. Rodriguez, Maria C. Velasco, Gustavo E. Quintero
Universidad de Cordoba, Monteria, Colombia

LB-5244

Safety and Immunogenicity of Co-administered Hookworm Vaccine Candidates Na-GST-1 and Na-APR-1 with Alhydrogel® and Glucopyranosyl-Lipid A in Gabonese adults: Interim Results

Ayola A. ADEGNIKA¹, Sophie de Vries², Jeannot F. Zinsou¹, Josiane Honkpehedji¹, Jean-Claude Dejon¹, Aurore Hounkpatin Bouyoukou¹, Marguerite Loembe Massinga¹, Emmanuel Bache¹, Nadine Pakker³, Remko van Leeuwen³, Bertrand Lell¹, Peter G. Kremsner⁴, Maria Yazdanbakhsh⁵, Jeffrey Bethony⁶, Peter Hotez⁷, David Dimert⁶, Martin P. Grobusch²
¹Centre de Recherches Medicales de Lambarene, Lambarene, Gabon, ²Center of Tropical Medicine and Travel Medicine, Academic Medical Center, University of Amsterdam, Amsterdam, Netherlands, ³Amsterdam Institute for Global Health and Development, Amsterdam, Netherlands, ⁴Institute for Tropical Medicine, University of Tübingen, Tübingen, Germany, ⁵Leiden Immunoparasitology Group, Department of Parasitology, Leiden University Medical Center, Leiden, Netherlands, ⁶Microbiology, Immunology and Tropical Medicine, The George Washington University, Washington, DC, United States, ⁷Sabin Vaccine Institute and Texas Children's Hospital Center for Vaccine Development, Departments of Paediatrics and Molecular Virology and Microbiology, National School of Tropical Medicine, Baylor College of Medicine, Houston, TX, United States

LB-5245

Deworming of preschool children between one and two years of age results in similar height and weight gains between one and five years of age

Brittany Blouin¹, Serene A. Joseph¹, Martin Casapia², Theresa W. Gyorkos³
¹McGill University, Montreal, QC, Canada, ²Asociación Civil Selva Amazónica, Iquitos, Peru, ³Research Institute of the McGill University Health Centre, Montreal, QC, Canada

LB-5246

Repeated soil-transmitted helminth infections reduce cognitive development scores in preschool-age children

Brittany Blouin¹, Martin Casapia², Theresa W. Gyorkos³
¹McGill University, Montreal, QC, Canada, ²Asociación Civil Selva Amazónica, Iquitos, Peru, ³Research Institute of the McGill University Health Centre, Montreal, QC, Canada

LB-5247

Development of modified alkaline lysis - magnetic bead extraction of DNA for molecular diagnosis of soil-transmitted helminths from stool

Jason Cantera, Heather White, Scott Khuu, Tala De los Santos
PATH, Seattle, WA, United States

LB-5248

Effects of early life exposures to geohelminths on atopy and wheeze in children

Philip J. Cooper¹, Martha Chico², Maritza Vaca², Carlos Sandoval², Sophia Loo², Laura Cunha Rodrigues³, David P. Strachan⁴, Mauricio L. Barreto⁵
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LB-5249

Does Mass Deworming Affect Child Nutrition? Meta-analysis, Cost-Effectiveness, and Statistical Power

Kevin Croke¹, Joan H. Hicks², Eric Hsu², Michael Kremer³, Edward Miguel²
¹World Bank, Washington, DC, United States, ²University of California, Berkeley, Berkeley, CA, United States, ³Harvard University, Cambridge, MA, United States

LB-5250

Comparison of reported and survey-estimated coverage in onchocerciasis programs over a period of eight years in Cameroon and Uganda

Emily Griswold¹, Moses Katarwa¹, Peace Habomugisha², Albert Eyamba³, Edson Byamukama², Annet Khainza², Philippe Nwane³, Tom Lakwo⁴, Frank O. Richards¹
¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Kampala, Uganda, ³The Carter Center, Yaoundé, Cameroon, ⁴Ministry of Health, Kampala, Uganda

LB-5251

Epidemiology of soil-transmitted helminthiasis and taeniasis in rural communities near Ranomafana National Park, Madagascar

Lee Hakami¹, Koeun Choi¹, Paul Castle¹, Jaydon Kiernan¹, Ines Vigan², Anjanirina Rahantamalala², Emma Rakotomalala², Rado L. Rakotoarison², Patricia Wright³, Peter Small¹, Luis Marcos¹
¹Stony Brook School of Medicine, Stony Brook, NY, United States, ²Institut Pasteur de Madagascar, Antananarivo, Madagascar, ³Stony Brook University, Stony Brook, NY, United States

LB-5252

Benefits of preventive chemotherapy against soil-transmitted helminthiasis: A comprehensive consideration of the evidence

Serene A. Joseph¹, Antonio Montresor²
¹Swiss Tropical and Public Health Institute, Basel, Switzerland, ²World Health Organization, Geneva, Switzerland

LB-5253

The role of community engagement and using school and community based approaches in improving treatment coverage of schistosomiasis and soil transmitted helminths (STH) in Ethiopia

Birhan Mengistu¹, Nebiyu Negusse¹, Biruck Kebede¹, Amha Fantaye¹, Michael French²
¹Ethiopia Federal Ministry of Health, Addis Ababa, Ethiopia, ²Schistosomiasis Control Initiative, London, United Kingdom

LB-5254

Independent process monitoring of mass drug administration for schistosomiasis and STH; outcomes and lessons learned

Nebiyu Negusse¹, Berhailu Merdokios², Alemu Tamissio², Zerihun Zerdo², Wanzahun Godana², Kate McCracken³, Michael French⁴, Biruck Kebede¹, Birhan Mengistu¹, Markos Sleshi⁵, Addisu Alemayehu⁵
¹Ethiopia Federal Ministry of Health, Addis Ababa, Ethiopia, ²Arba Minch University, Arba Minch, Ethiopia, ³Evidence Action, Addis Ababa, Ethiopia, ⁴Schistosomiasis Control Initiative, London, United Kingdom, ⁵Schistosomiasis Control Initiative, Addis Ababa, Ethiopia

LB-5255

Efficacy of Single or Repeated Oral and Subcutaneous Doses of Flubendazole in a mouse model of onchocerciasis

Hanna Sjoberg¹, Haelly Metuge², Nicolas Pionnier¹, Abdel Njouendou², Ludo Quiryne³, Marc Engelen³, Benny Baeten³, Mark Taylor¹, Samuel Wanji², **Joseph D. Turner**¹
¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²University of Buea, Buea, Cameroon, ³Janssen Pharmaceutica, Beerse, Belgium

LB-5256**Barriers to HIV/Chagas Testing and Treatment in a Region of High Risk**

Kimberly C. Brouwer¹, Teresita Rocha Jimenez¹, Erin E. Conners¹, Teresa Lopez Ordoñez², Celia Cordon Rosales³, Sonia Morales Miranda³, James H. McKerrow¹, Jair L. Siqueira-Neto¹, Cesar Infante Xibille⁴

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LB-5257**Determinants of Engagement in HIV Care in an African Context**

Kyle J. Kinderknecht¹, Ajay Parikh², Kavitha Ganesan², Emmanuel Bahemana³, Babajide Keshinro⁴, Francis Kiweewa⁵, Jonah Maswai⁶, John Owuoth⁷, Julie Ake², Christina Polyak², James Mancuso⁸

¹National Capital Consortium - Family Medicine Residency, Fort Belvoir, VA, United States, ²United States Military HIV Research Program, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³Walter Reed Program-Tanzania, Mbeya, United Republic of Tanzania, ⁴Walter Reed Program-Nigeria, Abuja, Nigeria, ⁵Makerere University-Walter Reed Project, Kampala, Uganda, ⁶Kenya Medical Research Institute, Walter Reed Project, Kericho, Kenya, ⁷Kenya Medical Research Institute, Walter Reed Project, Kisumu, Kenya, ⁸Uniformed Services University of the Health Sciences, Bethesda, MD, United States

LB-5258**Wuchereria bancrofti infection doubles HIV incidence in Southwest Tanzania; a prospective cohort study**

Inge Kroidl¹, Elmar Saathoff¹, Lucas Maganga², Williams H. Makunde³, Achim Hoerauf⁴, Laura E. Layland⁴, Christof Geldmacher¹, Petra Clowes², Leonard Maboko², Upendo J. Mwingira⁵, Mwele N. Malecela⁵, Michael Hoelscher¹

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LB-5259**HIV incidence among high risk population groups living in a peri-urban area of Maputo city, Mozambique: A cohort study**

Ivalda B. Macicame¹, Nilesh Bhatt¹, Raquel Matavele¹, Leigh Anne Eller², Vanessa Monteiro¹, Edna Viegas¹, Qun Li², Chiaka Nwoga², Nelson Michael², Merlin Robb², Christina Polyak², Ilesh Jani¹
¹Instituto Nacional de Saúde, Maputo, Mozambique, ²U.S. Military HIV Research Program/ Walter Reed Army Institute of Research/The Henry Jackson Foundation, Bethesda, MD, United States

LB-5260**Acceptability of reactive targeted parasite elimination as a strategy to eliminate malaria in Swaziland**

Kimberly Baltzell¹, Lunga Dlamini², Bongani Dlamini³, Alysse Maglior⁴, Manik Saini⁵, Nontoko Mngadi⁵, Lisa Prach¹, Nomcebo Dlamini⁶, Simon Kunene⁷, Michelle Hsiang⁸

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LB-5261**Evaluating the effectiveness and feasibility of reactive targeted parasite elimination vs. reactive case detection as a community-level intervention in response to passively identified index malaria cases in Swaziland: Preliminary results from a cluster randomized controlled trial**

Khayelihle Bhangu¹, Bongani Dlamini², Nomcebo Dlamini¹, Lisa Prach³, Nyasatu Ntshalintshali², Calisile Malambe¹, Mi-Suk Dufour³, Nomcebo Nhlathathi¹, Gugu Maphalala⁴, Kim Baltzell³, Bryan Greenhouse³, Roly Gosling³, Simon Kunene⁵, Michelle Hsiang⁶
¹National Malaria Control Programme, Manzini, Swaziland, ²Clinton Health Access Initiative, Mbabane, Swaziland, ³University of California San Francisco, San Francisco, CA, United States, ⁴National Clinical Laboratory Services, Mbabane, Swaziland, ⁵Ministry of Health, Mbabane, Swaziland, ⁶University of Texas, Southwestern Medical Center, Dallas, TX, United States

LB-5262

Multiple mechanisms of the beneficial effects of the MEK inhibitor trametinib on malaria pathogenesis—decreased growth of *Plasmodium falciparum* in RBC, decreased adhesion of parasitized RBC to endothelial cells, and decreased deleterious alternative (M2) monocyte activation

Margaret A. Bush¹, Rahima Zennadi¹, Alicia D. Volkheimer², Katelyn A. Walzer¹, Jen-Tsan A. Chi¹, J. Brice Weinberg²
¹Duke University Medical Center, Durham, NC, United States, ²V.A. & Duke University Medical Centers, Durham, NC, United States

LB-5263

Assessment of Intermittent Preventive Treatment of Malaria in Pregnancy: The perspectives of women at two community sites in Accra, Ghana

Daniel Arhinful¹, Lydia Aziato², Carine Baxerres³, **Nathaniel Coleman**⁴, Patience A. Mamattah⁵, Kwabena M. Bosompem¹, Julius N. Fobil⁴, Isabella A. Quakyi⁴, Nicaise T. Ndam³
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LB-5264

Dynamics of VAR2CSA antibody responses and plasma functional activity over successive pregnancies in an Aotus model of placental malaria

Justin Y. Doritchamou, Ankur Sharma, Sachy Orr-Gonzalez, Robert Morrison, Lynn Lambert, Michal Fried, Patrick E. Duffy
Laboratory of Malaria Immunology & Vaccinology, National Institute of Allergy and Infectious Disease, National Institutes of Health, Bethesda, MD, United States

LB-5265

Changes in angiogenic and inflammatory biomarkers early in pregnancy are associated with peripheral malaria infection and preterm birth in a prospective cohort of Malawian women

Robyn Elphinstone¹, Andrea Weckman¹, Chloe McDonald¹, Vanessa Tran¹, Andrea Conroy², Kathleen Zhong¹, Mwayiwawo Madanitsa³, Linda Kalilani-Phiri³, Victor Mwapasa³, Feiko O. ter Kuile⁴, Kevin C. Kain¹

¹University of Toronto, Toronto, ON, Canada, ²Indiana University School of Medicine, Indianapolis, IN, United States, ³University of Malawi, Blantyre, Malawi, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom

LB-5266

The Public Private Mix (PPM) Program and Antimalarial and Malaria Rapid Diagnostic Test (mRDT) Availability and Market Share in Southern Lao, PDR Pharmacies

Keith Esch¹, Saysana Phanalasy², Sengkeo Vongviengxay², The ACTwatch Group¹
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LB-5267

Malaria testing and treatment markets on the Thai-Myanmar and Thai-Cambodia borders

Anna Fulton¹, Sanchai Chasombat², Sunsanee Rojanapanus², Asawin Likhitsup³, The ACTwatch Group¹
¹Population Services International, Washington, DC, United States, ²Thailand Ministry of Public Health, Bangkok, Thailand, ³Independent Consultant, Bangkok, Thailand

LB-5268

Heterogeneity of G6PD Deficiency Prevalence in Mozambique: A school-based cross-sectional survey in three different regions

Beatriz Galatas¹, Lurdes Mabote¹, Wilson Simone¹, Gloria Matambisso¹, Lidia Nhamussua¹, Maria Mañu², Clara Menéndez³, Francisco Saute¹, Eusebio Macete¹, Pedro Alonso⁴, Pedro Aide¹
¹Centro de Investigação em Saúde de Manhiça, Manhiça, Mozambique, ²Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, ³ISGlobal, Barcelona Ctr. Int. Health Res. (CRESIB), Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, ⁴Global Malaria Programme, World Health Organization, Geneva, Switzerland

LB-5269

Spatial analysis of malaria incidence before and after a 13-month period of possible interruption of clinical malaria

Karen E. Hamre¹, James S. Hodges¹, George Ayodo², Chandy C. John³
¹University of Minnesota, Minneapolis, MN, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Indiana University, Indianapolis, IN, United States

LB-5270

Using mobile money for quick, efficient distribution of mosquito nets to the last mile in Rwanda

Lisa Hare, Saul Kidde, Audrey Sullivan
John Snow Inc., Arlington, VA, United States

LB-5271

Private sector readiness and performance for malaria case management in Uganda

Henry Kaula¹, Peter Buyungo¹, The ACTwatch Group²
¹PACE Uganda, Kampala, Uganda, ²Population Services International, Washington, DC, United States

LB-5272

What happened to the malaria market in Tanzania after the AMFm?

Daniel Michael¹, Nassor Kikumbi², The ACTwatch Group³
¹Population Services International / Tanzania, Dar es Salaam, United Republic of Tanzania, ²Synomind Consulting Co. Ltd., Dar es Salaam, United Republic of Tanzania, ³Population Services International, Washington, DC, United States

LB-5273

Malaria Epidemic – Uganda, 2015-2016

Anna A. Minta¹, Allen E. Okullo², John M. Williamson¹, Laura C. Steinhardt¹, Kathrine R. Tan¹, Jimmy Opigo², Lauren S. Lewis¹, Bryan K. Kapella¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²National Malaria Control Program, Kampala, Uganda

LB-5274

K13 mutations, pfmdr1 variants, and Day 3-positivity rates after artemether-lumefantrine treatment for Plasmodium falciparum malaria in Colombia

Madeline Montenegro¹, Maritza Posada¹, Briegel de las Salas¹, Aaron T. Neal², Rick M. Fairhurst², Alberto Tobon-Castaño¹, Tatiana M. Lopera-Mesa¹
¹Universidad de Antioquia, Medellin, Colombia, ²NIAID/NIH, Rockville, MD, United States

LB-5275

ACT availability, price and market share in Kinshasa and Katanga, DR Congo, 2013-2015

Godéfried Mpanya Ilunga¹, Paulin Mutombo², Willy Onema¹, Joris Losimba Likwela³, The ACTwatch Group⁴

¹Association de Santé Familiale/PSI, Kinshasa, Democratic Republic of the Congo, ²Ecole de Santé Public de Kinshasa, Kinshasa, Democratic Republic of the Congo, ³National Malaria Control Program, Kinshasa, Democratic Republic of the Congo, ⁴Population Services International, Washington, DC, United States

LB-5276

What happened to the malaria market in Kenya after the AMFm?

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LB-5277

The malaria testing and treatment landscape in Southern Lao PDR

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LB-5278

Antimalarial market improvements in Cambodia from 2009 to 2015

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LB-5279

Rapid Assessment of Long Lasting Insecticide Treated Net Replacement Campaign in Three Selected Nigerian States

Mopelola A. Raji, Ernest O. Nwokolo, Sonachi S. Ezeiru, Christopher A. Dangana, ifeanyi Udoe, Chinwoke I. Isiguzo, Andrew Saman, John Ocholi, Deborah Mker, Ikodiya Kalu
Society for Family Health, Abuja, FCT, Nigeria

LB-5280

Trends in public and private sector readiness to manage malaria in Madagascar, 2010-2015

Solofo Razakamiadana¹, Jacky Raharinjatovo¹, The ACTwatch Group²

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LB-5281

Prevalence of Malaria among Clients Diagnosed During Active Case Detection by Private Sector Facilities in High Burden Communities in Niger State, Nigeria

Andrew Y. Saman, Dr, Ernest Nwokolo, Mopelola Raji, John Ocholi, Dennis Aizobu, Ekele Johnson Society for Family Health, Nigeria, Wuse, Nigeria

LB-5282

Peripheral blood smear preparations for malaria diagnosis: Leishman versus Giemsa staining

Sanghamitra Satpathi¹, Akshaya Mohanty², Parthasarathi Satpathi³, Prativa Behera¹, Goutam Patel¹, Arjen Dondorp⁴

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LB-5283

Locally adapted immunity to PfEMP1 variants associated with clinical and severe Plasmodium falciparum malaria

Sofonias Tessema¹, Rie Nakajima², Algis Jasinskas², Stephanie L. Monk¹, Lea Lekieffre³, Enmoore Lin⁴, Benson Kiniboro⁴, Carla Proietti³, Peter M. Siba⁴, Denise L. Doolan³, Philip L. Felgner², Ivo Mueller¹, Alyssa E. Barry¹

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LB-5284

Susceptibility to pyrazinamide in Mycobacterium tuberculosis by detection of pyrazinoic acid biomarker in sputum samples MODS

Roberto Alcántara, Ricardo Antiparra, Patricia Fuentes, Lisette Marín, Mirko Zimic, Patricia Sheen Cayetano Heredia University, Lima, Peru

LB-5285

The use of Xpert® MTB/RIF in the Diagnosis and Management of Tuberculosis in both Pediatric and Adult Populations in western Kenya

Nicholas Ondiek¹, Akim Orwa², Moses Aswani², Stellamaris Oloo¹, Evelyne Modi², Vincent Omanje¹, Jacob Odeny¹, Chrispine Wasonga¹, Joan Ochieng¹, Jared Okelo², Lucy Wanyama², Caleb Otieno², **Prakasha Kempaiah**³, Harshini Mukundan⁴, Benjamin McMahon⁵, John Ong'echa⁶, Douglas Perkins³

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LB-5286

Development of Active Pulmonary Tuberculosis Diagnosis using ELISA test associated with magnetic nanoparticles linked to CFP-10 protein

Nancy León Janampa, Adriana Del Valle, Mirko Zimic, Patricia Sheen Cayetano Heredia University, Lima, Peru

LB-5287

Comparison of Viral Yield between Nasopharyngeal/Oropharyngeal Swabs and Sputum Samples using TaqMan Array Cards

BRYAN NYAWANDA

KENYA MEDICAL RESEARCH INSTITUTE, KISUMU, Kenya

LB-5288

Impact of Wood Fuel Usage on Pulmonary Tuberculosis Disease Severity

Anita Svadzian¹, Swaroop Sahu², Jane Pleskunas³, Sonali Sarkar², Gautam Roy⁴, Jerrold J. Ellner³, Natasha S. Hochberg⁵, Divya Reddy⁶

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LB-5289**Sinu Virus, a Novel Orthomyxovirus Related to Members of the Genus Thogotovirus, Isolated from Mosquitoes in Colombia**

María Angélica Contreras Gutierrez¹, Marcio R.T. Roberto Nunes², Hilda Guzman³, Sandra Uribe⁴, Richard Onalby Hoyos Lopez⁵, Juan Carlos Gallego Gómez⁶, Juan David Suaza Vasco⁴, Vsevolod L. Popov³, Steven G. Widen⁷, Thomas G. Wood⁷, Nikos Vasilakis³, Robert B. Tesh³

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LB-5290**Long-Term Safety of a CYD-TDV Dengue Vaccine in Latin American Dengue Endemic Countries**

Margarita Cortés

SANOPI PASTEUR, Bogotá, Colombia

LB-5291**Predicting areas of probable West Nile virus circulation in South Africa using surveillance, GIS, and remote sensing**

James A. Fuller¹, Marthi Pretorius², Elizabeth Botha², Mpho Rakgotho², Voula Stivaktas², June Williams³, Marietjie Venter²

¹Division of Global Health Protection, US Centers for Disease Control and Prevention, Pretoria, South Africa, ²Centre for Viral Zoonoses, University of Pretoria, Pretoria, South Africa, ³Department of Paraclinical Sciences, Faculty of Veterinary Science, University of Pretoria, Pretoria, South Africa

LB-5292**Dengue epidemiology and vaccine implementation in Parana, Brazil**

Cleide Aparecida de Oliveira¹, Ivana L. Belmonte¹, Júlia V. Cordellini¹, Sezifredo P. Paz¹, **Bradford D. Gessner**²

¹Secretario de Estado do Saude, Parana State, Brazil, Parana, Brazil, ²AMP, Paris, France

LB-5293**Co-circulation of dengue, zika and chikungunya in Córdoba-Colombia between 2015 to 2016**

Luz Angela Gomez Suarez¹, Maria Jose Jimenez¹, Esteban Marin², Enderson Ramos², Andrea Trujillo², Jorge Osorio³, Catalina Tovar Acero¹

¹Universidad del Sinu, Monteria, Colombia,

²Universidad de Antioquia, Medellín, Colombia,

³University of Wisconsin, Madison, WI, United States

LB-5294**6-Month Safety Data of Ebola Zaire Vaccine (rVSVAG-ZEBOV-GP) in Healthy Adults**

Scott A. Halperin¹, Jose R. Arribas², Richard Rupp³, Charles Andrews⁴, Laurence Chu⁵, Rituparna Das⁶, Jakub K. Simon⁶, Matthew T. Onorato⁶, Kenneth Liu⁶, Frans A. Helmond⁶

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LB-5295**The Epidemiology of Dengue and the Emergence of Chikungunya in Machala, Ecuador, 2014-2015**

Aileen Kenneson¹, Anna M. Stewart Ibarra¹, Efrain Beltrán-Ayala², Washington B. Cárdenas³, Cinthya K. Cueva¹, Christina D. Lupone¹, Mark Abbott¹, Mark Polhemus¹, Timothy P. Endy¹

¹SUNY Upstate Medical University, Center for Global Health and Translational Science, Syracuse, NY, United States, ²Ministry of Health, Machala, Ecuador, ³Laboratorio de Biomedicina, Escuela Superior Politécnica del Litoral, Guayaquil, Ecuador

LB-5296**Evaluation of Serologic Assays for the Detection of Patient Antibodies to Zika Virus**

William T. Lee, Karen E. Kulas, Laura D. Kramer, Alan P. Dupuis, Susan J. Wong
Wadsworth Center/New York Department of Health, Albany, NY, United States

LB-5297

Cytokines and chemokines profiles of patients with chikungunya-induced chronic arthralgia/arthritis

Idali Martinez, Edwin Lopez, Zelma L. Rios, Luis M. Vila
University of Puerto Rico Medical Sciences Campus, San Juan, Puerto Rico

LB-5298

Chikungunya virus breaks out in Mandera county, in the arid northeastern Kenya 2016, driven by population movement and inadequate water supply

Rosemary Sang¹, Samson L. Konongoi¹, Victor O. Ofula², Albert Nyunja³, Joel Lutomiah¹, James Mutisya³, Samwel Owaka³, Albina Makio³, Edith Koske³, Daniel Langat⁴, Randy Schoepp⁵, Cindy Rossi⁵, Sylvanus Opanda³, Fred Eyase³, Wallace Bulimo³, Rodney Coldren³

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LB-5299

The African strain of Zika shows protection against heterologous challenge with an Asia strain of Zika in Rhesus Monkeys

BUTSAYA K. THAISOMBOONSUK¹, Damon W. Ellison¹, Rawiwan Imerbsin², Kittinun Hussen¹, Yongyuth Poolpanichupatam¹, Kanittha Sirikajornpan¹, Taweewun Hunsawong¹, Prapapun Ong-ajchaowler¹, Rungarun Suthangkornkul¹, Klanarong Wongsae¹, Methae Gomootsukavadee¹, Jindarat Lohachanakul¹, Winai Kaneechit¹, Suwannee Chantharawiphak¹, Chonticha Klungthong¹, Ananda Nisalak¹, In-Kyu Yoon¹, Aiden L. Weg¹, Anon Srikiatkachorn¹, Anon Srikiatkachorn³, Louis R. Macareo¹

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LB-5300

Long-term kinetics of Zika virus RNA and antibodies in body fluids of a vasectomized traveller returning from Martinique: A case report

Frank von Sonnenburg¹, Guenter Froeschl¹, Kristina Huber¹, Hans Dieter Nothdurft¹, Gisela Bretzel¹, Michael Hoelscher², Lothar Zoeller³, Matthias Trottmann⁴, Francisco Pan-Montojo⁵, Gerhard Dobler³, Silke Woelfel³

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LB-5301

Characterization of infectious dengue microparticles in infected human subjects

Ko Lun Henry Yen

National Cheng Kung University, Tainan, Taiwan

Poster Session 131

Poster Session C

Late Breakers in Basic Science/Molecular Biology

Wednesday, November 16, Noon - 1:45 p.m.

Hilton - Grand Ballroom and Grand Salon

Arthropods	#LB-5310 through LB-5219
Malaria	#LB-5320 through LB-5347
One Health: Interface of Human Health/Animal Diseases	#LB-5348 through LB-5351
Protozoa	#LB-5352 through LB-5360
Viruses	#LB-5361 through LB-5371

LB-5310

Within-year spatial heterogeneity and seasonality of dengue incidence in Thailand

Qifang Bi¹, Derek A. Cummings², Nick G. Reich³, Sapon Lamsirithaworn⁴, Justin Lessler¹
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²University of Florida, Gainesville, FL, United States, ³University of Massachusetts, Amherst, MA, United States, ⁴Thai Ministry of Public Health, Bangkok, Thailand

LB-5311

Mosquito Insecticide Resistance Affected by Agricultural Pest Management

Mike W. Dunbar, Amanda Bachmann, Febina Mathew, Adam Varenhorst
South Dakota State University, Brookings, SD, United States

LB-5312

Low potential for mechanical transmission of Ebola virus via house flies

Andrew D. Haddow¹, Farooq Nasar¹, Christopher W. Schellhase¹, Susana L. Padilla¹, Roger D. Moon², Xiankun Zeng¹, Suzanne E. Wollen¹, Joshua D. Shamblyn¹, Elizabeth C. Grimes¹, Justine M. Zelko¹, Kenneth J. Linthicum³, Sina Bavari¹, Louise M. Pitt¹, John C. Trefry¹
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LB-5313

Development of an Anopheles gambiae specific viral expression vector

Rebecca M. Johnson, Jason L. Rasgon
The Pennsylvania State University, University Park, PA, United States

LB-5314

Is livestock restocking an important factor in narrowing the Gambian - Rhodesian trypanosomiasis merger in Uganda? What does molecular data suggest?

Agapitus B. Kato
Department of ZEF Sciences, College of Natural Sciences, Makerere University, Kampala, Uganda

LB-5315

Risk of transmission of Chagas disease by infected wild vectors (Hemiptera: Reduviidae: Triatominae) in a Caribbean area of Costa Rica

Mauricio S. Lascano¹, Casey Poore², Lucy Sullivan³, Katherine Bryan⁴, Haylie Butler⁵, Robert Haemmerle⁵, Rodrigo Zeledón⁶
¹Organization for Tropical Studies, San Jose, Costa Rica, ²Brown University, Providence, RI, United States, ³University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ⁴Bowdoin College, Brunswick, ME, United States, ⁵College of the Holy Cross, Worcester, MA, United States, ⁶Universidad de Costa Rica, San Jose, Costa Rica

LB-5316

Spatial distribution of wild host-seeking Anopheles albimanus mosquitoes in human-occupied untreated bednets compared to the distribution of net damage

Norma Padilla¹, **Yaimie López**¹, Soledad Rodas¹, Lucrecia Vizcaíno², Audrey Lenhart², Jim Sutcliffe³
¹Universidad del Valle de Guatemala, Guatemala, Guatemala, ²Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Trent University, Durham, ON, Canada

LB-5317

Serotonin receptors as novel insecticide targets

Michelle Ngai, Douglas Shoue, Mary Ann McDowell
University of Notre Dame, Notre Dame, IN, United States

LB-5318

CRISPR germline knockouts in *Anopheles gambiae*

Andrea L. Smidler, Robert Shaw, Flaminia Catteruccia
Harvard University, Boston, MA, United States

LB-5319

Effects of boric acid ovitrap on the control of dengue vectors in the laboratory

Tsai-Ying Yen¹, Kun-Hsien Tsai²
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LB-5320

Orientation of Antigen Displayed on Self-Assembling Protein Nanoparticles Influences Immunogenicity in Mice

Elke Bergmann-Leitner¹, Christopher Mann¹, Katherine Mallory¹, Jacqueline McCabe¹, Neeraja Punde¹, David Lanar¹, Peter Burkhard², **Evelina Angov**¹
¹*Walter Reed Army Institute of Research, Silver Spring, MD, United States*, ²*Alpha-O Peptides AG, Basel, Switzerland*

LB-5321

Exploring the effect of Na⁺ influx into *P. falciparum*

Suyash Bhatnagar, Sudipta Das, Joanne M. Morrissey, Akhil B. Vaidya
Drexel University College of Medicine, Philadelphia, PA, United States

LB-5322

Functional Genetic Screens to Identify Novel Erythrocyte Determinants of *Plasmodium falciparum* Invasion

Mudit Chaand
Harvard T. H. Chan School of Public Health, Boston, MA, United States

LB-5323

The effect of murine malaria on erythropoiesis and immune cell differentiation in the bone marrow

Joanna Chorazeczewski, Victoria Majam, Maya Aleshnick, Sanjai Kumar, Miranda Oakley
FDA, Silver Spring, MD, United States

LB-5324

Volatile organic compounds associated with *Plasmodium falciparum* infection in vitro

Ricardo Correa, Lorena M. Coronado, Armando A. Durant, Carmenza Spadafora
Instituto de Investigaciones Científicas y Servicios de Alta Tecnología (INDICASAT AIP), Panama, Panama

LB-5325

In silico models show differences between African and Asian *Plasmodium falciparum* Kelch 13 protein tertiary structures

Reine Bebey¹, Aoua Coulibaly², Aminatou Kone², Sekou Sissoko², Bakary Fofana², Mouhamad Diallo¹, **Abdoulaye Djimde**²
¹*Master of Bioinformatics and Cell Biology, Université Cheick Anta Diop, Dakar, Senegal*, ²*University of Science and Technologies of Bamako, Bamako, Mali*

LB-5326

Using 13C-labeled geranylgeranyl pyrophosphate to identify dormancy regulating phytohormone, abscisic acid, in the intraerythrocytic stages of *Plasmodium falciparum*

Marvin Duvalsaint¹, Ryan M. Young¹, Andrew Shilling¹, Francis B. Ntumngia¹, Ronald Kennedy Keller², Bill J. Baker¹, Dennis E. Kyle¹
¹*University of South Florida, Tampa, FL, United States*, ²*Isoprenoids, LLC, Tampa, FL, United States*

LB-5327

Analysis of predicted native *Asaia* sp. SF2.1 secretion signals for malaria control strategies

Christina Grogan, David Lampe
Duquesne University, Pittsburgh, PA, United States

LB-5328

Integrative Multi-Omic Approach To Understand Severe Malaria Infection

Yi Yan¹, Elizabeth D. Trippe¹, Jessica C. Kissinger¹, Alberto Moreno², Mary Galinski², MaHPIC Consortium³, **Juan B. Gutierrez**¹
¹*University of Georgia, Athens, GA, United States*, ²*Emory University, Atlanta, GA, United States*, ³*Emory, UGA, GT, Atlanta, Athens, GA, United States*

LB-5329

Plasmodium falciparum genotypes before and after a period of low or interrupted malaria transmission in highland Kenya

Karen E. Hamre¹, Sofonias K. Tessema², Maxwell Murphy², George Ayodo³, Tuan Tran⁴, Alanna Schwartz², Chandy C. John⁴, Bryan Greenhouse²
¹University of Minnesota, Minneapolis, MN, United States, ²University of California, San Francisco, San Francisco, CA, United States, ³Kenya Medical Research Institute, Kisumu, Kenya, ⁴Indiana University, Indianapolis, IN, United States

LB-5330

Antibody-dependent NK cell control of Plasmodium falciparum infection

Geoffrey T. Hart¹, Gunjan Arora², Tuan Tran³, Jakob Theorell⁴, Louis Miller², Susan Pierce², Sanjay Desai², Peter Crompton², Yenan Bryceson⁴, Eric Long²
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LB-5331

Mitochondrial ribosomes of malaria parasites

Hangjun Ke, Joanne M. Morrissey, Michael W. Mather, Akhil B. Vaidya
Drexel University College of Medicine, Philadelphia, PA, United States

LB-5332

Is the TCA Cycle Enzyme Fumarate Hydratase (Type I) Essential for Purine Salvage in P. falciparum?

Lindsay Kleinwaks, Hangjun Ke, Joanne M. Morrissey, Michael W. Mather, Akhil B. Vaidya
Drexel University College of Medicine, Philadelphia, PA, United States

LB-5333

A luminescent Plasmodium knowlesi transformant able to complete the parasite life cycle: A new resource for fundamental research and drug discovery

Roberto Moraes Barros¹, Jennifer S. Armistead¹, Tyler J. Gibson¹, Kittisak Thawnashom², Miho Kaneko², Whitney A. Kite¹, John P. Mershon¹, Jackeline K. Brockhorst¹, Theresa Engels³, Lynn Lambert³, Sachy Orr-Gonzales³, Osamu Kaneko², John H. Adams⁴, Juliana M. Sa¹, Thomas E. Wellems¹
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Tropical Medicine (NEKKEN), Nagasaki, Japan, ³NIH, Bethesda, MD, United States, ⁴University of South Florida, Tampa, FL, United States

LB-5334

Strengthening junior African scientist research capacity on antimalarial resistance markers in field isolates

Magatte NDIAYE¹, Amadou Bamadio², Sirima Constant³, Abdoulaye Doumbouya⁴, Siley Diallo⁵, Aurore Hounto⁶, Marie Louise Tshibola MBUYI⁷, Mamadou LAMINO⁸, Jean Louis NDIAYE¹, Babacar FAYE¹, Abdoulaye Djimde², Michael Alifrangis⁹, Oumar GAYE¹
¹University Cheikh Anta Diop, Senegal, Senegal, ²University of Science, Techniques and Technology of Bamako, Bamako, Mali, ³Institut de Recherche en Sciences de la Santé, Centre Muraz, Bobo Dioulasso, Burkina Faso, ⁴National Center for Training & Research in Country Health of Maferinyah, Republic of Guinea, Guinea-Bissau, ⁵Université des Sciences, de Technologie et de Médecine, Nouakchott, Mauritania, ⁶University Cavali of Benin, Cotonou, Benin, ⁷Faculty of Medicine University of Libreville, Libreville, Gabon, ⁸Centre de Recherche Médicale et Sanitaire., Niamey, Niger, ⁹Centre for Medical Parasitology, ISIM, University of Copenhagen, Copenhagen, Denmark

LB-5335

Investigating the role of an oxysterol binding-related protein Plasmodium falciparum

Sezin Patel, Joanne Morrissey, Michael Mather, Akhil Vaidya
Drexel University College of Medicine, Philadelphia, PA, United States

LB-5336

Gorilla adenovirus vaccine vectors expressing P. falciparum CSP and AMA1 are immunogenic in mice

Noelle Patterson¹, Maureen Stefaniak¹, Keith Limbach¹, Sharvari Sonawane¹, Joseph Bruder², Eileen Villasante¹
¹Naval Medical Research Center, Silver Spring, MD, United States, ²GenVec, Inc., Gaithersburg, MD, United States

LB-5337

Population structure of pfrp2/pfrp3 negative parasites of *P.falciparum* in Peruvian Amazon Region

MARIELLA QUISPE¹, Gabriel Carrasco-Escobar¹, Paulo Manrique¹, Oscar Nolasco¹, Mitchel Guzman², Roberson Ramirez², Alejandro Llanos-Cuentas³, Joseph Vinetz⁴, Dionicia Gamboa⁵
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LB-5338

Characterization of *Plasmodium falciparum* Mitochondrial DNA Polymerase

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LB-5339

Evaluation of cytokine gene expression post-stimulation in PBMCs of symptomatic and asymptomatic patients infected with *Plasmodium falciparum* from the Peruvian Amazon

Pamela Rodriguez¹, Katherine Torres¹, Joseph Vinetz², Dionicia Gamboa³
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LB-5340

Characterization of genetic diversity of *Plasmodium falciparum* isolates from Swaziland

Michelle Roh¹, Maxwell Murphy¹, Nyasatu Ntshalintshali², Manik Saini², Lisa Prach¹, Gugu

Maphalala³, Nomcebo Nhlabathi⁴, Nomcebo Mkhonta⁴, Simon Kunene⁵, Michelle Hsiang¹, Bryan Greenhouse¹

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LB-5341

Molecular epidemiology and population structure of the *Plasmodium falciparum* reservoir in an area of seasonal malaria transmission in Bongo District, Ghana

Shazia Ruybal-Pesántez¹, Kathryn E. Tiedje¹, Mary M. Rorick², Aleksandra Leliwa-Sytek³, Anita Ghansah⁴, Godfred Agongo⁵, Thomas Anyorigiya⁵, Daniel Azongo⁵, Timothy Awine⁵, Raymond Aboriga⁵, Abraham Oduro⁵, Kwadwo Koram⁴, Mercedes Pascual², Karen P. Day¹
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LB-5342

A novel *Plasmodium falciparum* class II histone deacetylase is essential for blood-stage proliferation

Kristen M. Skillman, Bradley I. Coleman, Kim Brodin, Ulf Ribacke, Manoj T. Duraisingh
Harvard T.H. Chan School of Public Health, Boston, MA, United States

LB-5343

An opsonic phagocytosis assay for *Plasmodium falciparum* sporozoites

Ryan W. Steel, Brandon K. Sack, Stefan H. Kappe
Center for Infectious Disease Research, Seattle, WA, United States

LB-5344

Cethromycin completely cures *P. berghei* liver stage malaria initiated by mosquito bites

David J. Sullivan¹, Grace E. Kennedy¹, Nikola Kaludov²
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Quantum-Biosciences, Baltimore, MD, United States

LB-5345

Dynamics of SICAVar Gene Expression in Plasmodium knowlesi Malaria Infections in silico Reveals Potential Cellular Mechanisms Regulating Antigen Variation

Christopher C. Tseng¹, Jung-Ting Chien¹, Stacey A. Lapp¹, MaHPIC Consortium¹, Mary R. Galinski²
¹Malaria Host-Pathogen Interaction Center, Emory Vaccine Center at Yerkes National Primate Research Center, Atlanta, GA, United States, ²Emory University School of Medicine, Division of Infectious Diseases, Atlanta, GA, United States

LB-5346

Approaches to Evaluate Parasite Density for Malaria Diagnostics Using Miniaturized Flow Cytometry

Kimvan Tran¹, Julie Clor¹, Brett Chromy¹, Beatrice Greco², **Kamala Tyagarajan**¹
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LB-5347

Expression variation in low-level dihydroartemisinin-treated Southeast Asian Plasmodium falciparum isolates

Philip A. Wilson¹, Gabriel J. Foster¹, Sage Z. Davis¹, Lisa A. Checkley¹, Marina McDew-White², François H. Nosten³, Timothy J. Anderson², Michael T. Ferdig¹
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LB-5348

Short interfering RNA inhibits Rift Valley fever virus replication and degradation of protein kinase R in human cells

Bonto Faburay, Juergen A. Richt
Kansas State University, Manhattan, KS, United States

LB-5349

Multispecies disease landscapes: Dogs as sentinels for vector-borne zoonoses across deforestation gradients in Panama

Nicole Gottdenker¹, Julie Velasquez Runk¹, Azael Saldaña², Jose E. Calzada², Milixa Perea², Chystrie Rigg², Kadir Gonzalez², Vanessa Pineda², Anamaria Santamaria², Karen Wu¹, Steffi Muller¹, Caitlin Mertzlufft¹, Jessie Dyer¹, Stephanie Foster³, Melissa

Smith³, Andrew Dent³, Susan Tanner¹
¹University of Georgia, ATHENS, GA, United States, ²Instituto Conmemorativo Gorgas de Estudios de la Salud, Panama City, Panama, ³CDC, Atlanta, GA, United States

LB-5350

Seroepidemiology of ectoparasite-borne diseases in small rodent population Thailand with a focus on scrub typhus, murine typhus and tick typhus assessment

Piyada Linsuwanon¹, Wuttikon Rodkvamtook², Chien-Chung Chao³, Jiraporn Teampanpong⁴, Panadda Krairojananan¹, Surachai Leepitakrat¹, Elizabeth Wanja¹, Silas Davidson¹, Wei-Mei Ching³, Allen Richards³
¹USAMD-AFRIMS, Bangkok, Thailand, ²Royal Thai Army-AFRIMS, Bangkok, Thailand, ³Naval Medical Research Center, Silver spring, MD, United States, ⁴Kasetsart University, Bangkok, Thailand

LB-5351

Human antibodies against Orientia tsutsugamushi in the Democratic Republic of Sao Tome and Principe

Kun-Hsien Tsai¹, Tsai-Ying Yen², Lien-Fen Tseng³, Chien-Chung Chao⁴, Maria de Jesus Trovoadas Santos⁵, Wei-Mei Ching⁴, Zhiwen Zhang⁴, Chien-Fu Cheng³, Pei-Yun Shu⁶, Arlindo Vicente de Assunção Carvalho⁷
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LB-5352

Trichomonas vaginalis macrophage migration inhibitory factor induces the parasite survival under nutrient stress

Yi-Pei Chen
University of California, Los Angeles, Los Angeles, CA, United States

LB-5353

Discovery and evaluation of new drugs for the treatment of primary amoebic meningoencephalitis

Beatrice Colon¹, Christopher Rice¹, Abdelbasset Farahat², David Boykin², Kiplin Guy³, Dennis Kyle¹
¹University of South Florida, Tampa, FL, United States, ²Georgia State University, Atlanta, GA, United States, ³St Jude Children's Research Hospital, Memphis, TN, United States

LB-5354

Intestinal amebiasis: Does IL-17 play any role?

Sharmina Deloer

Nagasaki University, Nagasaki, Japan

LB-5355

A central role for the ubiquitin-like protein apiqutin in apicoplast protein import in *Toxoplasma gondii*

Justin D. Fellows, Michael Cipriano, Boris Striepen
University of Georgia, Athens, GA, United States

LB-5356

A high-throughput phenotypic screen identifies clofazimine as a potential treatment for cryptosporidiosis

Melissa S. Love¹, Federico C. Beasley¹, Rajiv S. Jumani², Arnab K. Chatterjee¹, Christopher D. Huston², Timothy M. Wright¹, Peter G. Schultz¹, Case W. McNamara¹

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LB-5357

IFN- γ controls amebic liver abscess and the function of type 2 innate lymphoid cells in mice intraperitoneally inoculated with *Entamoeba histolytica*

Risa Nakamura¹, Sharmina Deloer¹, Kazuyo Moro², Shinjiro Hamano¹

¹NEKKEN, Nagasaki University, Nagasaki, Japan, ²RIKEN IMS, Yokohama, Japan

LB-5358

Potentiating RNA Interference in *Cryptosporidium parvum*

Samantha Nava, Alejandro Castellanos-Gonzalez, A. Clinton White
University of Texas Medical Branch, Galveston, TX, United States

LB-5359

Cryptosporidium, *Giardia* and *Cyclospora* distribution in biofilms from an endemic location

Jessica Hofstetter¹, Maria Torres¹, Alexandria Purcell¹, Samantha Day¹, Lilia Cabrera², Carmen Taquiri², Manuela Verastegui², Robert Gilman³, Ynes R. Ortega¹

¹University of Georgia, Griffin, GA, United States,

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LB-5360

High-throughput screening methods used to fuel the discovery of new chemical structures active against the pathogenic free-living amoeba, *Naegleria fowleri* and *Acanthamoeba* spp.

Christopher A. Rice¹, Beatrice L. Colon¹, Abdelbasset Ahmed², Kaitlin A. Mettel¹, Kati Räsänen¹, Santana A. Thomas¹, Bill J. Baker¹, Blaise A. Darveaux³, Cedric Pearce³, David W. Boykin², Dennis E. Kyle¹

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LB-5361

Potential for ZIKV transmission by *Aedes aegypti* and *Aedes albopictus* from Mexico

Selene M. Garcia-Luna¹, Claudia Rückert¹, James Weger-Lucarelli¹, Reyes A. Murrieta¹, Joseph R. Fauver¹, Adriana E. Flores², Gustavo Ponce-Garcia², William C. Black¹, Gregory D. Ebel¹

¹Colorado State University, Fort Collins, CO, United States, ²Universidad Autonoma de Nuevo Leon, San Nicolas de los Garza, N.L., Mexico

LB-5362

Validation of the Cepheid GeneXpert for Detecting Ebola Virus in Semen

Amy J. Loftis

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

LB-5363

Emerging and re-emerging arboviral etiologies of acute febrile illness in Santa Rosa, Guatemala: 2010-2016

Maria R. Lopez¹, Laura M. Grajeda¹, David Moran¹, Herberth Maldonado¹, Celia Cordon¹, Judith Garcia², Jorge Cifuentes², Joe Bryan³, John McCracken¹

¹Universidad del Valle de Guatemala, Guatemala, Guatemala, ²Ministerio de Salud y Asistencia Social, Guatemala, Guatemala, ³Centers for Disease Control and Prevention, US, GA, United States

LB-5364

Secretome of monocytes-derived macrophages from patients with chikungunya-induced chronic arthralgia/arthritis

Idali Martinez¹, Edwin Lopez¹, Zelma L. Rios¹, Luis M. Vila¹, Susan T. Weintraub², Loyda Melendez¹

¹University of Puerto Rico Medical Sciences Campus, San Juan, Puerto Rico, ²University of Texas Health Science Center at San Antonio, San Antonio, TX, United States

LB-5365

Impact of extrinsic incubation temperature on Zika virus population diversity in Aedes mosquitoes

Reyes A. Murrieta, Claudia Rückert, James Weger-Lucarelli, Selene M. Garcia-Luna, Joseph R. Fauver, Alex Gendernalik, Gregory D. Ebel
Colorado State University, Fort Collins, CO, United States

LB-5366

Human acute B cell response after ZIKV infection

Siddhartha Bhaumik, **Lalita Priyamvada**, Robert Kauffman, Srilatha Edupuganti, Mark Mulligan, Jens Wrammert
Emory University, Atlanta, GA, United States

LB-5367

Heat shock protein 70: A cell entry and attachment factor in Zika virus infection process

Sujit K. Pujhari, Vanessa M. Macias, Jason L. Rasgon
Pennsylvania State University, State College, PA, United States

LB-5368

A Hybridization-Based Enrichment Strategy to Increase the Efficiency of Next Generation Sequencing of Dengue Viruses in Sri Lanka Allows for Higher Resolution Phylogenetic Analysis

October Sessions¹, Hasitha Tissera², Ananda Amarasinghe², Paba Palihawadana², Xin Mei Ong¹, Louise Pan¹, Anna Uehara¹, Jun Hao Tan¹, Duane Gubler¹, Annelies Wilder-Smith³
¹Duke-Nus, Singapore, Singapore, ²Epidemiology Unit, Ministry of Health, Colombo, Sri Lanka, ³Umea University, Umea, Sweden

LB-5369

A novel assay to characterise the neutralisation capacity of human monoclonal antibodies against dengue viruses

Trung Vu
Oxford University Clinical Research Unit, Ho Chi Minh, Viet Nam

LB-5370

A reverse genetics platform to generate time-ordered Zika virus infectious clones for evaluation of viral determinants of pathogenesis

Douglas G. Widman, Ellen Young, Boyd Yount, Derek Carbaugh, Emily N. Gallichotte, Kenneth Plante, Kayla Peck, Jessica Plante, Mark T. Heise, Helen M. Lazear, Ralph S. Baric
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

LB-5371

Human antibody responses after dengue virus infection are highly cross-reactive to Zika virus

Jens Wrammert
Emory University, Atlanta, GA, United States

Poster Session 131
Poster Session C
Late Breakers in Clinical Tropical Medicine
Wednesday, November 16, Noon - 1:45 p.m.
Hilton - Grand Ballroom and Grand Salon

Global Health.....	#LB-5372 through LB-5385
Kinetoplastida.....	#LB-5386 through LB-5389
Malaria	#LB-5390 through LB-5414
Protozoa	#LB-5415 through LB-5417
Trematodes	#LB-5418 through LB-5419
Viruses	#LB-5420 through LB-5432
Water, Sanitation, Hygiene and Environmental Health	#LB-5433 through LB-5441

LB-5372

Screening for asymptomatic eosinophilia in an immigrant population in New York City

Jilliane Abella¹, Paula Debroy¹, Josiah Guitian¹, Christina Coyle², Herbert Tanowitz²
¹Jacobi Medical Center, Bronx, NY, United States,
²Albert Einstein College of Medicine, Bronx, NY, United States

LB-5373

Robust Global Health Academic Preparation's Impact Upon International Medicine Clinical Performance

Nicholas Comninellis
INMED - Institute for International Medicine, Kansas City, MO, United States

LB-5374

Sociocultural Factors and Access to Treatment for Chagas Disease in Los Angeles

Colin J. Forsyth, Salvador Hernandez, Mario Felipe Roman Cadena, Juana Maribel Nieto Rivas, Grecia Marquez Lizama, Carmen A. Flores, Juan Sequeira Gross, Sheba K. Meymandi
Center of Excellence for Chagas Disease, Sylmar, CA, United States

LB-5375

Substantial reduction in antibiotic uptake by travelers associated with recommendation and availability of a novel nutritional product (DiaResQ®)

Jamie Reesman¹, Michelle Reesman¹, George Stagnitti², **Mark Grabowsky**²
¹Passport Health Colorado, Denver, CO, United States, ²PanTheryx, Inc, New York, NY, United States

LB-5376

Preparedness and Response to Global Infectious Disease Outbreaks: A Boots-on-the-Ground Approach to Training and Infrastructure Development

Colleen Hanou, Adrienne Burdine
ClinicalRM, Hinckley, OH, United States

LB-5377

Sustaining community event-based surveillance in the post-Ebola recovery period in Sierra Leone: Signals of the potential impact of a change in swabbing policy on death reporting, January-July 2016

Eilidh M. Higgins¹, Erin Polich¹, Mita Sahu¹, Ruwan Ratnayake², Stacey Mearns¹
¹International Rescue Committee, Freetown, Sierra Leone, ²International Rescue Committee, New York City, NY, United States

LB-5378

Rabies in Iraq

Mashair Ismail
Central veterinary laboratory, veterinary Directorate, Baghdad, Iraq

LB-5379

A study of attitudes towards people living with HIV, among healthcare workers, at two tertiary level health facilities in Trinidad

Nikita Jaggernauth¹, Alison Grant¹, jeffrey edwards²
¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²University of the West Indies, St. Augustine, Trinidad and Tobago

LB-5380

Identification and treatment of dry-season water bodies with pyriproxyfen to control mosquito-borne diseases

Eliza T. Lupenza, Robert D. Sumaye, Dickson W. Lwetoijera
Ifakara Health Institute, Morogoro, United Republic of Tanzania

LB-5381

Feasibility of Using Unmanned Aerial Systems (UASs or drones) for Conducting Tropical Medicine Research in Remote Settings in Rural Madagascar

Luis Marcos¹, Peter M. Small¹, Patricia Wright², Daniel Pepper³, Jesse McKinney⁴, Jesse McKinney⁴, Jaydon Kiernan², Jaydon Kiernan², Lee Hakami², Koeun Choi², Paul Castle²
¹Stony Brook University/Global Health Institute, Stony Brook, NY, United States, ²Stony Brook University, Stony Brook, NY, United States, ³Vay, Ann Arbor, MI, United States, ⁴Stony Brook University, Stony Brook University, NY, United States

LB-5382

Community-based prevention of maternal and neonatal morbidity and mortality: The role of maternity waiting homes in Latin America

Maria Cecilia Santana¹, Alejandra Marks², Arachu Castro³

¹National School of Public Health, Havana, Cuba, ²Tulane University Stone Center for Latin American Studies, New Orleans, LA, United States, ³Tulane University School of Public Health and Tropical Medicine, New Orleans, LA, United States

LB-5383

Community health: Improving start of IPTp early in second trimester through promotion of MIP at the community level in Kenya

Augustine M. Ngindu

Maternal and Child Survival Program, Kisumu, Kenya

LB-5384

Factors associated with the presence of epilepsy and severe chronic headaches in 60 villages across three provinces in rural Burkina Faso

Ida Sahl¹, Helene Carabin², Rasmane Ganaba³, Pierre-Marie Preux⁴, Assana Kone Cisse⁵, Zekiba Tarnagda⁵, Sarah Gabriel⁶, Veronique Dermauw⁶, Pierre Dorny⁶, Cici Bauer¹, Athanase Millogo⁷
¹Brown University, Providence, RI, United States, ²University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States, ³Agence de Formation de Recherche et d'Expertise en Santé pour l'Afrique, Bobo-Dioulasso, Burkina Faso, ⁴Neuro-Epidemiology and Tropical Neurology Institute (IENT) and UMR 1094 Inserm Neuroépidémiologie Tropicale (NET), Limoges, France, ⁵Institute of Research in Health Sciences, Bobo-Dioulasso, Burkina Faso, ⁶Institute of Tropical Medicine Antwerp, Antwerp, Belgium, ⁷Centre Hospitalier Universitaire Sourou Sanou, Bobo-Dioulasso, Burkina Faso

LB-5385

Household Beliefs about Malaria Likelihood: The Role of Diagnostic Testing and Malaria Treatment

Indrani Saran¹, Diana Menya², Wendy O'Meara¹
¹Duke Global Health Institute, Durham, NC, United States, ²Moi University School of Public Health, Eldoret, Kenya

LB-5386

Re-analysis of a sequential three-arm randomized trial of AmBisome in combination with sodium stibogluconate or miltefosine, and miltefosine monotherapy, for African visceral leishmaniasis

Neal D. Alexander¹, Annabel Allison², Tansy Edwards¹, Raymond Omollo³, Dominic Magirr⁴, Fabiana Alves⁵, Ahmed Musa⁶, Monique Wasunna³
¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²University of Sheffield, Sheffield, United Kingdom, ³Drugs for Neglected Diseases initiative, Nairobi, Kenya, ⁴Medical University of Vienna, Vienna, Austria, ⁵Drugs for Neglected Diseases initiative, Geneva, Switzerland, ⁶Institute of Endemic Diseases, University of Khartoum, Khartoum, Sudan

LB-5387

Amphotericin B and Fluconazole Susceptibility Profiles of Old World and New World Strains of Leishmania

Priyanka Challa¹, Ruwandi Kariyawasam¹, Rachel Lau², Braulio Valencia³, Alejandro Llanos-Cuentas³, Andrea K. Boggild¹
¹University of Toronto, Toronto, ON, Canada, ²Public Health Ontario Laboratories, Toronto, ON, Canada, ³Instituto de Medicina Tropical "Alexander von Humboldt", Lima, Peru

LB-5388

Epidemiological Characteristics of Cutaneous Leishmaniasis Outbreak, Iraq, 2015

Somaia B. Hasan

MOH\CDC\BAGHDAD, Baghdad, Iraq

LB-5389

Variations in VL incidence, mortality and the pathway to treatment in Bihar, India

Sarah Jervis¹, Lloyd A. Chapman¹, Shweta Dwivedi², Aritra Das², Epke Le Rutte³, Orin Courtenay¹, Graham F. Medley⁴, Indranath Banerjee², Indrajit Chaudhuri², Sridhar Srikantiah², T. Deirdre Hollingsworth¹
¹University of Warwick, Coventry, United Kingdom, ²CARE India, Patna, India, ³Erasmus MC, Rotterdam, Netherlands, ⁴London School of Hygiene and Tropical Medicine, London, United Kingdom

LB-5390

Can improved case management affect malaria transmission? Initial outcomes from a study in Odisha, India

Anup Anvikar¹, Neena Valecha¹, Sreya Kumbhakar², Ambarish Dutta³, Penny Grewal Daumerie⁴, Jaya Banerji⁴, Stephan Duparc⁴, Naman K. Shah¹, P. L. Joshi², Kamini Mendis⁵, Shiva Murugasampillay⁶, Madan M. Pradhan²
¹National Institute of Malaria Research, Delhi, India, ²National Vector Borne Disease Control Programme, Odisha, India, ³Indian Institute of Public Health, Bhubaneswar, India, ⁴Medicines for Malaria Venture, Geneva, Switzerland, ⁵formerly World Health Organization, Geneva, Switzerland, ⁶World Health Organization, Geneva, Switzerland

LB-5391

Plasmodium falciparum genotype and gametocyte prevalence in children with uncomplicated malaria in Southern Ghana

Ruth Ayanful-Torgby¹, Akua A. Oppong¹, Joan Abankwaa¹, Festus K. Acquah¹, Kim C. Williamson², Linda E. Amoah¹
¹Noguchi Memorial Institute for Medical Research, University of Ghana, ACCRA, Ghana, ²Uniform Services University of Health Science, Bethesda, MD, United States

LB-5392

Using the Surface Electrocardiogram to Evaluate Arrhythmia Risk in Antimalarial Therapy - the case of Halofantrine

Xin Hui Chan¹, Borimas Hanboonkunupakarn¹, Shu Kiat Chan², Yan Naung Win³, Atthanee Jeeyapant¹, Francois Nosten⁴, Nick White¹
¹Mahidol-Oxford Tropical Medicine Research Unit, Bangkok, Thailand, ²Singapore General Hospital, Singapore, Singapore, ³Mahidol University, Bangkok, Thailand, ⁴Shoklo Malaria Research Unit, Mae Sot, Thailand

LB-5393

A new framework for planning and management of aggressive integrated campaigns for local malaria elimination

Ari Eichler, Arnon Yafin
One Shot, Jerusalem, Israel

LB-5394

Environmental mechanisms of malaria transmission around water-resource reservoirs

Noriko Endo, Elfatih A. Eltahir
Massachusetts Institute of Technology, Cambridge, MA, United States

LB-5395

In Vivo Efficacy of Chloroquine for the Treatment of Asymptomatic Infections in Mozambican Adults: A Randomized, Placebo-controlled Trial with Implications for Elimination Strategies

Beatriz Galatas¹, Lidia Nhamussua¹, Baltazar Candrinho², Lurdes Mabote¹, Himanshu Gupta³, Pau Cisteró³, Clara Menéndez³, Eusebio Macete¹, Francisco Saute¹, Alfredo Mayor³, Pedro L. Alonso⁴, Quique Bassat³, Pedro Aide¹
¹Centro de Investigação em Saúde de Manhiça, Manhiça, Mozambique, ²National Malaria Control Programme, Ministry of Health, Manhiça, Mozambique, ³ISGlobal, Barcelona Ctr. Int. Health Res. (CRESIB), Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, ⁴Global Malaria Programme, World Health Organization, Geneva, Switzerland

LB-5396

Improving the Malaria diagnostic strategy leading to better control and elimination

Luiz Gustavo Guedes Correa, Patrick Considine, Eirini Vavatsikou, Peter Keeling
Labceutics, part of the Diaceutics Group, Heidelberg, Germany

LB-5397

Therapeutic Efficacy of Artemisinin-based Combination Therapies and Molecular Markers of Artemisinin Resistance in Three Sentinel Sites in Myanmar

Kay T. Han¹, Khin Lin², Moe K. Myint¹, Aung Thi³, Kyin H. Aye¹, Zay Y. Han¹, Mya Moe¹, Dorina Bustos⁴, Pascal Ringwald⁵, Christopher V. Plowe⁶, Myaing M. Nyunt⁶
¹Department of Medical Research, Yangon, Myanmar, ²Department of Medical Research, Pyin Oo Lwin, Myanmar, ³Department of Public Health National Malaria Control Program, Nay Pyi Taw, Myanmar, ⁴World Health Organization Southeast Asia Regional Office, Bangkok, Thailand, ⁵World Health Organization, Geneva, Switzerland, ⁶Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States

LB-5398

Early warning system for country level stock outs of malaria medicines and diagnostics

Lisa Hare, Naomi Printz, Loren Bausell
John Snow Inc., Arlington, VA, United States

LB-5399

Scale up of village malaria workers network using a novel risk stratification methodology in Cambodia

Po Ly¹, Amandeep Singh², Josh Christenson², Satomi Ginoza², Abigail Ward², Arnaud Le Menach², Andrew Tatem³, Siv Sovannarothe¹, Huy Rekol¹, Christopher Lourenco³

¹National Center For Parasitology, Entomology & Malaria Control, Ministry of Health, Phnom Penh, Cambodia, ²Clinton Health Access Initiative, Boston, MA, United States, ³Department of Geography and Environment, University of Southampton, Southampton, United Kingdom

LB-5400

Understanding the community acceptability of targeted parasite elimination vs. reactive case detection: A qualitative study in Zambezi region, Namibia

Alyse Maglior¹, Kathryn Roberts¹, Davis Mumbengegwi², Michelle Hsiang¹, Roly Gosling¹, Kimberly Baltzell³

¹Malaria Elimination Initiative, University of California, San Francisco, San Francisco, CA, United States, ²Multidisciplinary Research Centre, University of Namibia, Windhoek, Namibia, ³School of Nursing Department of Family Health Care Nursing, University of California, San Francisco, San Francisco, CA, United States

LB-5401

Efficacy and safety of artemether-lumefantrine for treatment of uncomplicated falciparum malaria in areas with different malaria transmission intensity in mainland Tanzania

Celine I. Mandara¹, Deus S. Ishengoma¹, Billy Ngasala², Lilian Mkony², Edward Lwidiko², Johannes B. Kataraihya³, Erasmus Kamugisha³, Abdunoor M. Kabanywany⁴, Mwaka Athumani⁴, Muhidin K. Mahende⁴, Reginald Kavishe⁵, Florida Muro⁵, Ally Mohamed⁶, Renatha Mandike⁶, Sigsbert Mkude⁶, Frank Chaky⁶, Lynn Paxton⁷, George Greer⁷, Lynn Paxton⁷, Ritha Njau⁸, Marian Warsame⁹

¹National Institution for Medical Research, Tanga Research Centre, , United Republic of Tanzania, ²Department of Parasitology, School of Public health, Muhimbili University of Health and Allied Sciences, Dar es Salaam, United Republic of Tanzania, ³Catholic University of Health and Allied Sciences/Bugando Medical Centre, Mwanza, United Republic of Tanzania, ⁴Ifakara Health Institute Dar es Salaam office, Dar es Salaam, United Republic of Tanzania, ⁵Kilimanjaro Christian Medical Centre, Tanzania, Moshi, United Republic of Tanzania, ⁶National Malaria Control Program (NMCP), Dar es Salaam, Tanzania, Dar es Salaam, United Republic of Tanzania, ⁷President's Malaria Initiative, Dar es

Salaam, United Republic of Tanzania, ⁸World Health Organization Country Office, Dar es Salaam, United Republic of Tanzania, ⁹World Health Organization, Geneva, Switzerland

LB-5402

The real burden of malaria in Peruvian Amazon comprises a large reservoir of submicroscopic infections

Julio Miranda-Alban¹, Gabriel Carrasco-Escobar¹, Carlos Fernández-Miñope¹, Katherine Garro¹, Katherine Torres¹, Maritza Calderon¹, Joseph M. Vinetz¹, Joseph M. Vinetz², Joseph M. Vinetz³, Dionicia Gamboa¹, Dionicia Gamboa², Dionicia Gamboa⁴, Alejandro Llanos-Cuentas⁴, Alejandro Llanos-Cuentas⁵

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LB-5403

The Nrf2 pathway reduces brain endothelial activation and sequestration of cerebral malaria derived Plasmodium falciparum isolates

Neida K. Mita-Mendoza¹, Priyanka Parmar¹, Ryung Kim², Catherine M. Feintuch¹, Joe Smith³, Karl Seydel⁴, Alex Saidi⁵, Terrie Taylor⁶, Johanna P. Daily¹

¹Department of Microbiology and Immunology, Albert Einstein College of Medicine, Bronx, NY, United States, ²Department of Epidemiology and Population Health, Albert Einstein College of Medicine, Bronx, NY, United States, ³Seattle Biomedical Research Institute, Seattle, WA, United States, ⁴Department of Osteopathic Medical Specialties, College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States, ⁵Department of Osteopathic Medical Specialties, College of Osteopathic Medicine, Michigan State University, East Lansing, MI, United States, ⁶Blantyre Malaria Project, University of Malawi College of Medicine, Blantyre, Malawi

Poster Session C

Late Breakers in Clinical Tropical Medicine

Wednesday, November 16, Noon - 1:45 p.m.

LB-5404

Rapid Impact Assessment of Malaria Control Interventions in Ghana, 2015

Wahjib Mohammed¹, Constance Bart-Plange¹, Keziah Malm¹, Maru Aregawi Weldedawit², Nana Yaw Peprah¹, Godson Kofi Osae¹, Samuel K Oppong¹
¹National Malaria Control Programme, Accra, Ghana, ²World Health Organization, Geneva, Swaziland

LB-5405

Lessons learned from two years of mRDT support to private sector facilities in Tanzania

Brenda Mshiu
Population Services International Tanzania, Dar es salaam, United Republic of Tanzania

LB-5406

Plasmodium falciparum resistance to artemisinin correlates with slow pitting of parasitized red blood cells

Alioune Ndour
National Institute of Blood Transfusion/Inserm U1134 - Paris 5 University, Paris, France

LB-5407

Severe malaria in-patient treatment rates and their impact on malaria incidence and mortality in Africa

Melissa A. Penny¹, Flavia Camponovo¹, Caitlin A. Bever², Nicolas Maire¹, Katya Galactionova¹, Thomas A. Smith¹
¹Swiss Tropical and Public Health Institute, Basel, Switzerland, ²Institute for Disease Modeling, Bellevue, WA, United States

LB-5408

Private health providers in Madagascar: key players in improving malaria case management, to contribute to "Malaria no more"

Rova Ratsimandisa
Population Services International, Antananarivo, Madagascar

LB-5409

Preclinical evaluations of Pfs25M-EPA and Pfs230D1M-EPA in Adjuvant System AS01 for a Vaccine to Interrupt Malaria Transmission

Kelly M. Rausch, Emma K. Barnafo, Lynn Lambert, Olga Muratova, Charles Anderson, Patrick E. Duffy
National Institutes of Health, Rockville, MD, United States

LB-5410

The Oral AMT market still maintains a foothold in Myanmar, 2015

Christina Riley¹, Si Thu Thein², Hnin Su SU Khin², The ACTwatch Group¹
¹Population Services International, Washington, DC, United States, ²Population Services International/Myanmar, Yangon, Myanmar

LB-5411

Post-artesunate delayed hemolysis in a returning traveler

Sara L. Robinson
Walter Reed National Military Medical Center, Silver Spring, MD, United States

LB-5412

Joint Geospatial Modeling of HIV and Malaria in Kenya and Uganda to Estimate Impact of Cotrimoxazole on Malaria Burden

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LB-5413

What happened to the malaria market in Nigeria after the AMFm?

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Poster Session C

Late Breakers in Clinical Tropical Medicine

Wednesday, November 16, Noon - 1:45 p.m.

LB-5414

Intermittent treatment in pregnancy containing azithromycin - does it prevent preterm birth by ablating inflammation?

Holger W. Unger¹, Annjaleen Hansa¹, Wina P. Hasang¹, Maria Ome-Kaius², Andrew Teo¹, Ayen A. Anuan¹, Christelle Buffet¹, Peter Siba², Ivo Mueller³, Sarah Stock⁴, Stephen J. Rogerson¹

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LB-5415

Evaluation of treatment outcomes of complete and incomplete treatment schedules with benznidazole in subjects with chronic Chagas disease

Melisa Daiana Castro Eiro¹, Maria Gabriela Alvarez², Rodolfo Viotti², Gretchen Cooley³, Graciela Bertocchi², Bruno Lococo², Maria Cecilia Albareda¹, **Susana A. Laucella**¹, Rick Tarleton³

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LB-5416

Molecular detection of Babesia species with Loop Mediated Isothermal Amplification (LAMP) using simple sample preparation methods

Clarissa Gomez, Denise Patel, **Reddy V. Ponaka**, Vladimir Slepnev, Slava Elagin
Meridian Bioscience Inc., Cincinnati, OH, United States

LB-5417

Post-kala-azar Dermal Leishmaniasis (PKDL): A prospective observational study of the effectiveness and safety of an ambulatory short course treatment with AmBisome 15 mg/kg total dose in Bangladesh

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LB-5418

Fragmentation improved the diagnostic potentials of major egg protein Sjp40 for human schistosomiasis

Jose Ma. M. Angeles¹, Yasuyuki Goto², Lydia R. Leonardo³, Kharleezelle J. Moendeg¹, Dang Trinh Minh Anh¹, Pilarita T. Rivera³, Elena A. Villacorte³, Masashi Kirinoki⁴, Yuichi Chigusa⁴, Raymond L. Houghton⁵, Shin-ichiro Kawazu¹

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LB-5419

A novel diagnosis of Schistosoma mansoni and S. haematobium: PCR amplification of cell-free repeat DNA fragment from filtered urine

Nilanjan Lodh¹, Lindani Mchawi², Sydney Resler¹, Steven Charles Krenzke¹

¹Marquette University, Milwaukee, WI, United States, ²Alabama State University, Montgomery, AL, United States

LB-5420

Ebola virus prevention and response, and Zika virus informational workshops in The Gambia, West Africa

Bryan Anderson

University of Iowa, Coralville, IA, United States

LB-5421

A Novel Zika Virus Vaccine based on a Soluble, Correctly Folded, Highly Purified and Immunogenic Envelope Glycoprotein

James F. Cummings, Gregory M. Glenn, Ye Liu, Jian Hui, David Flyer, Louis Fries, Mike Massarre, Gale E. Smith

Novavax, Inc, Gaithersburg, MD, United States

LB-5422

Hospital surveillance for neurological syndromes associated with arboviruses during concurrent outbreaks of Zika, Chikungunya and Dengue viruses, in Salvador, Bahia-Brazil

Isadora Cristina de Siqueira¹, Mateus Santana do Rosario¹, Pedro Antonio de Jesus², Daniel Santana Farias², Marco Antônio Novaes³, Sueli Guerreiro Rodrigues⁴, Livia Caricio Martins⁴, Pedro Fernando Vasconcelos⁴, Nikos Vasilakis⁵, Albert Icksang Ko⁶, Marta Weber Carneiro¹, Marta Giovanetti¹, Fernanda Washington Lima⁷, Daniel Moura⁷, Luiz Carlos Alcântara¹

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LB-5423

FDA Toxicity Grading Scales as a Predictive Tool for Dengue Severity

Anthony J. Puthumana¹, **Daniel F. Farrell**¹, Ryan A. Nightingale¹, Aileen Kenneson-Adams², Mark Polhemus¹, Anna M. Stewart Ibarra¹, Timothy P. Endy¹

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LB-5424

A prospective cohort study in Panama and El Salvador of Zika virus infection in pregnant women and cognitive development in their offspring: Early results

S. Cornelia Kaydos-Daniels¹, Rosalba Gonzalez², Juan Miguel Pascale², Susan Hills³, Arlene Calvo⁴, A. Wilfrido Clara⁵, Christina Nelson³, Eduardo Azziz-Baumgartner⁶, Morgan Hess-Holtz⁴, Julio Armero Guardado⁷, Rhina Dominguez de Quijada⁷, Nestor Sosa²

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LB-5425

Guillain-Barré Syndrome Associated with Zika Virus Infection in a Traveler Returning from Guyana

Mandip KC¹, Ryan G. Fabrizio¹, Kathryn Anderson¹, Brett Hendel-Paterson¹, Robyn M. Kaiser², Salahudin Maalim¹, Patricia F. Walker¹

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LB-5426

The etiologies of fever requiring hospitalization in Indonesia

Herman Kosasih

INA-RESPOND, Jakarta, Indonesia

LB-5427

Development of a West Nile Virus Challenge Model to Explore the Interaction of Disease with Hypertension

Maureen T. Long, Jasenka Zubcevic, Erika R. Schwarz, Serena Craft, Allison L. Stahl, Linda F. Hayward

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LB-5428

Evaluating the frequency of asymptomatic Ebola virus infection

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LB-5429

Transmission dynamics of local Zika outbreaks in Colombia

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LB-5430

Symptomatic dengue infection during pregnancy and live birth outcomes: A national retrospective cohort study in Brazil

Joao Bosco Siqueira¹, Laura B. Nascimento¹, Claudio M. Siqueira¹, Giovanini E. Coelho²
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LB-5431

Development of a molecular diagnostic test to detect Zika virus infection in resource-limited clinical settings

Omar A. Saldarriaga, Marcio M. Nunes, Alejandro Castellanos-Gonzalez, Peter C. Melby, **Bruno L. Travi**
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LB-5432

Screening of dengue fever in the blood donors during the dengue outbreak in 2015 in southern Taiwan

Jih-Jin Tsai¹, Li-Teh Liu², Guey-Cheun Perng³, Yu-Wen Chien⁴, Chun-Yuh Yang⁵
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LB-5433

Towards sustainability: Leveraging an evaluative monitoring framework for Comunidad Connect to facilitate adoption and sustained use of water filters in Nicaragua

Meenu Anand¹, Roshini George¹, Jon Thompson²
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LB-5434

Public Perceptions of the Investigational Use of Genetically Engineered Mosquitoes in the Florida Keys

Cinnamon S. Bloss¹, Cynthia Cheung¹, Derek Deng¹, Rasheed Al Kotob¹, Kimberly Brouwer¹, Robert Friedman², Matthew Bietz³
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LB-5435

Importance of potable water in tertiary hospitals, in the Dominican Republic

Magdeline E. Carrasco Apolinario, Luis A. De Jesús, Robert A. Paulino
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LB-5436

Can Cholera fly?

Zenat Z. Hossain¹, Karen Egedal¹, Israt Farhana², Yrja L. Lindeberg¹, Anowara Begum², Matthew Phelps¹, Suhella Tulsiani¹, **Peter K. Jensen**¹
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LB-5437

Gauging potential schistosomiasis exposure in northern Senegal from activity-specific water contact estimates

Andrea Lund¹, David Lopez-Carr², Gilles Riveau³, Nicolas Jouanard³, Doudou Diop³, Jason Andrews¹, Susanne H. Sokolow⁴, Giulio A. De Leo⁴
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LB-5438

The cost of responding to a waterborne cholera outbreak in a village in Uganda compared to a simple hypothetical intervention

Eva A. Okullo, David W. Oguttu, Alex A. Ario, Bao P. Zhu
Uganda Public Health Fellowship Program, Kampala, Uganda

LB-5439

Early administration of polyvalent ASV and use of mechanical ventilation lowers snakebite-related mortality in Western Odisha, India

Rajyabardhan Pattnaik, Anita Lakra, Kishore Mahanta, Praveen Sahu, Arvind Singh
Ispat General Hospital, Rourkela, India

LB-5440

Is household water treatment and safe storage effective in reducing Highly Credible Gastrointestinal Illness in densely populated urban areas: Cluster randomised controlled trial, Lusaka, Zambia

Michelo Simuyandi¹, Benjamin Usadi¹, Samuel Bosomprah¹, Jeroen Ensink², Paul Kelly¹, Roma Chilengi¹, Joe Brown³

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LB-5441

Ghanaian Boreholes: What keeps them working?

Michelle Sodipo, Alexandra V. Kulinkina, Paige Roberts, Emmanuel Asare Agyapong, David J. Tybor, Karen C. Kosinski, Elena N. Naumova
Tufts University, Medford, MA, United States

Presenter Index

A

Aaskov, John LB-5214
Abd El Wahed, Ahmed LB-5136
Abella, Jilliane LB-5372
Adamou, Hadiara LB-5099, LB-5100
Adegnika, Ayola LB-5244
Adesunloye, Oladokun LB-5137
Adjobimey, Tomabu LB-5170
Agbo, Serge LB-5101, LB-5102, LB-5103
Aguirre, Sebastian LB-5215
Akogbéto, Martin LB-5000
Alam, Masud LB-5171
Alcántara, Roberto LB-5284
Aldrich, Margaret LB-5138
Aleshnick, Maya LB-5448
Alexander, Neal LB-5386
Alfonso-Parra, Catalina LB-5156
Almagro-Garcia, Jacob LB-5028
Anand, Meenu LB-5433
Anderson, Bryan LB-5420
Angeles, Jose Ma. LB-5418
Angov, Evelina LB-5320
Anvikar, Anup LB-5390
Appiah, Grace LB-5139
Ashbaugh, Hayley LB-5231
Aslan, Asli LB-5065
Astale, Tigist LB-5074
Auguste, Albert LB-5216
Ayanful-Torgby, Ruth LB-5391

B

Bagamian, Karoun LB-5066
Baltzell, Kimberly LB-5260
Banerjee, Priyankana LB-5172
Bansal, Geetha LB-5029
Barber, Bridget LB-5030
Barria, Ivan LB-5018
Bastos, Maria LB-5057
Beam, Michelle LB-5226
Bernabeu, Maria LB-5185
Bhangu, Khayelihle LB-5261
Bhatnagar, Julu LB-5308
Bhatnagar, Suyash LB-5321
Bi, Qifang LB-5310
Bloss, Cinnamon LB-5434
Blouin, Brittany LB-5245, LB-5246
Boene, Helena LB-5086
Bond, Meaghan LB-5087
Bonne-Année, Sandra LB-5061
Brieger, William LB-5113
Brouwer, Kimberly LB-5256
Brown Marusiak, Amanda LB-5232
Bun, Krufinta LB-5173
Burstein, Roy LB-5088
Bush, Margaret LB-5262

C

Campos Chagas, Andrezza LB-5157
Cantera, Jason LB-5247
Carrasco Apolinario, Magdeline LB-5435
Carugati, Manuela LB-5089
Carvalho, Edgar LB-5019
Chaand, Mudit LB-5322
Challa, Priyanka LB-5387

Chan, Candice LB-5140
Chan, Xin Hui LB-5392
Chandonait, Peter LB-5067
Chauhan, Nikhil LB-5174
Chen, Yi-Pei LB-5352
Chien, Yu-Wen LB-5141
Chile, Nancy LB-5167
Chinula, Dingani LB-5158
Chorazeczewski, Joanna LB-5323
Chouaibou, Mouhamadou LB-5001
Choy, Robert LB-5011
Coleman, Nathaniel LB-5263
Colon, Beatrice LB-5353
Cominellis, Nicholas LB-5373
Conteh, Solomon LB-5031
Contreras Gutierrez, María Angélica LB-5289
Cooper, Michael LB-5090
Cooper, Philip LB-5248
Correa, Ricardo LB-5324
Cortés, Margarita LB-5290
Croke, Kevin LB-5249
Cropley, Lorelei LB-5233
Cummings, James LB-5421

D

Dadzie, Samuel LB-5002
Dankwa, Selasi LB-5186
Davis, Sage LB-5187
de Mondesert, Laura LB-5104
de Siqueira, Isadora LB-5422
de St. Maurice, Annabelle LB-5142
Deason, Nicholas LB-5032
DeLoer, Sharmina LB-5354
Demas, Allison LB-5033
Dey, Ayan LB-5143
Didier, Bradley LB-5114
Diouf, Mamadou LB-5188
Djimde, Abdoulaye LB-5325
Dodson, Brittany LB-5159
Dondji, Blaise LB-5175
Doritchamou, Justin LB-5264
Doucoure, M'Bouyé LB-5115
Douglas, Alexander LB-5034
Douglas, Christina LB-5217
Dunbar, Mike LB-5311
Dutta, Sheetij LB-5189
DuvalSaint, Marvin LB-5326

E

Eapen, Alex LB-5116
Eastman, Richard LB-5035
Echodu, Dorothy LB-5190
Eichler, Ari LB-5393
Elliott, Richard LB-5036
Elphinstone, Robyn LB-5265
Endo, Noriko LB-5394
Esch, Keith LB-5266
Eyase, Fredrick LB-5160

F

Faburay, Bonto LB-5348
Färnert, Anna LB-5442
Farrell, Daniel LB-5423
Fellows, Justin LB-5355
Fenimore, Paul LB-5016
Ferdig, Michael LB-5443
Forsyth, Colin LB-5374

Foster, Gabriel LB-5191
Fouts, Timothy LB-5218
Freund, Yvonne LB-5020
Fuller, James LB-5291
Fulton, Anna LB-5267

G

Gabrie, Jose LB-5176
Gaensbauer, James LB-5075
Galatas, Beatriz LB-5268, LB-5395
Gao, Qi LB-5037
Garcia-Luna, Selene LB-5361
Garringer, Kaya LB-5003
Gasem, Mohammad LB-5076
Géopogui, André LB-5152
Gessner, Bradford LB-5105, LB-5292
Ghanchi, Najia LB-5192
Gilmartin, Allissia LB-5234
Giordani, Maria LB-5227
Gomez Suarez, Luz Angela LB-5293
Gomez-Puerta, Luis LB-5168
Gottdenker, Nicole LB-5349
Govella, Nicodem LB-5038
Grabowsky, Mark LB-5375
Gray, Darren LB-5106
Gray, Lyndsey LB-5004
Griswold, Emily LB-5250
Grogan, Christina LB-5327
Guedes Correa, Luiz Gustavo LB-5396
Guerra, Rosio LB-5077, LB-5078
Guerra-Giraldez, Cristina LB-5169
Guilaze, Rui LB-5091
Gupta, Purva LB-5193
Gutierrez, Juan LB-5328
Gutto, Abebe LB-5005

H

Haddow, Andrew LB-5312
Hakami, Lee LB-5251
Halperin, Scott LB-5294
Hamre, Karen LB-5269, LB-5329
Han, Kay LB-5397
Hanou, Colleen LB-5376
Hare, Lisa LB-5092, LB-5093, LB-5270, LB-5398
Harischandra, Hiruni LB-5177
Harrington, Whitney LB-5444
Hart, Geoffrey LB-5330
Hasan, Somaia LB-5388
Hawkes, Michael LB-5154
Henriques, Gisela LB-5117
Hernandez, Leda LB-5107
Hernandez-Cordova, Jorge LB-5228
Higgins, Eilidh LB-5377
Hoshina, Tokio LB-5229
Hossain, M. Jahangir Hossain LB-5079
Hume, Jen LB-5039
Hung, Jane LB-5118
Hurd, Jacqueline LB-5068

I

Ishida, Kenji LB-5305
Ismail, Mashair LB-5378
Iyanda-Joel, Wisdom LB-5058

J

Jacobs, Robert LB-5021
Jaggernauth, Nikita LB-5379
Jechel, Dale LB-5144
Jensen, Peter LB-5436
Jervis, Sarah LB-5389
Johnson, Rebecca LB-5313
Jolly, Emmitt LB-5178
Joseph, Serene LB-5252
Juma, Dennis LB-5194

K

Kalimuddin, Shirin LB-5145
Kamau, Alice LB-5119
Kang, Seokyoung LB-5302
Kato, Agapitus LB-5161, LB-5314
Kaula, Henry LB-5271
Kaydos-Daniels, S. Cornelia LB-5424
KC, Mandip LB-5425
Ke, Hangjun LB-5331
Kelly, Patrick LB-5306
Kempaiah, Prakasha LB-5285
Kenneson, Aileen LB-5295
Kessler, Anne LB-5195
Khatri, Vishal LB-5179
Kibret, Solomon LB-5196
Kim, Deok Ryun LB-5235
Kimeto, Eunice LB-5120
Kinderknecht, Kyle LB-5257
Kleinwaks, Lindsay LB-5332
Knight, Matty LB-5062
Kosasih, Herman LB-5426
Kositz, Christian LB-5121
Kreiss, Tamara LB-5180
Kristan, Mojca LB-5197
Kroidl, Inge LB-5258

L

Laroche, Maureen LB-5070
Lascano, Mauricio LB-5315
Laucella, Susana LB-5415
Lee, William LB-5296
León Janampa, Nancy LB-5286
Lerch, Anita LB-5198
Lertsethtakarn-Ketwalha, Paphavee LB-5080
Levine, Rebecca LB-5219
Linsuwanon, Piyada LB-5350
Lippi, Catherine LB-5094
Liu, Jie LB-5081
Liu, Weimin LB-5447
Lo, Nathan LB-5153
Lodh, Nilanjan LB-5419
Loftis, Amy LB-5362
Long, Maureen LB-5427
Lopez, Maria LB-5363
López, Yaimie LB-5316
Love, Melissa LB-5356
Lucchi, Naomi LB-5040
Lund, Andrea LB-5437
Lupenza, Eliza LB-5380
Ly, Po LB-5399
Lypaczewski, Patrick LB-5022

M

Macicame, Ivalda LB-5259
MacLeod, Hannah LB-5162

Magesa, Stephen LB-5006
Maglior, Alysse LB-5400
Maixenchs, Maria LB-5236
Mandara, Celine LB-5401
Mandomando, Inacio LB-5082
Marcos, Luis LB-5381
Marks, Alejandra LB-5382
Martinez, Idali LB-5297, LB-5364
Martínez-Vega, Ruth LB-5071
Mayta, Holger LB-5220
Mbala, Placide LB-5428
Mengistu, Birhan LB-5253
Michael, Daniel LB-5272
Milali, Masabho LB-5041
Miller, Lior LB-5108
Miller, Robin LB-5122
Minta, Anna LB-5273
Miranda-Alban, Julio LB-5402
Mita-Mendoza, Neida LB-5403
Mohammed, Wahjib LB-5404
Montenegro, Madeline LB-5274
Moraes Barros, Roberto LB-5333
Mori, Hiroko LB-5069
Morita, Masayuki LB-5199
Moshi, Irene LB-5042
Mosore, Mba-Tihssommah LB-5163
Mpanya Ilunga, Godéfried LB-5275
Mshiu, Brenda LB-5405
Mukkala, Avinash LB-5023
Muniz, Jesus LB-5200
Murrieta, Reyes LB-5365
Mwambi, Dennis LB-5276
Mwenda, Mulenga LB-5123

N

Nakamura, Risa LB-5357
Nallandhighal, Srinivas LB-5201
Narum, David LB-5202
Nash, Scott LB-5083
Nava, Samantha LB-5358
Nayakwadi Singer, Monica LB-5095
Ndhere, Amos LB-5237
Ndiaye, Magatte LB-5334
Ndour, Alioune LB-5406
Negusse, Nebiyu LB-5254
Ngai, Michelle LB-5317
Nganga, Joseph LB-5043
Nghipumbwa, Mwalenga LB-5124
Ngindu, Augustine LB-5383
Nhacolo, Felizarda LB-5238
Njie, Sarjo LB-5059
Nuchprayoon, Surang LB-5181
Nute, Andrew LB-5109
Nwokolo, Ernest LB-5125
Nyawanda, Bryan LB-5287

O

Oberstaller, Jenna LB-5203
O'Brien, Kieran LB-5096
Ogoussan, Kisito LB-5182
O'Hara, Geraldine LB-5146
Okoth, Winter LB-5126
Okullo, Eva LB-5438
Oleinikov, Andrew LB-5044
Ong, Yee Tsuey LB-5221
Operario, Darwin LB-5060
Ortega, Ynes LB-5359

P

Padilla, Angel LB-5024
Pant, Jyoti LB-5025
Patel, Sezin LB-5335
Patterson, Noelle LB-5336
Pattnaik, Rajyabardhan LB-5439
Penny, Melissa LB-5407
Perng, Guey Chuen LB-5147
Petzing, Stephanie LB-5239
Peyton, David LB-5204
Phanalasy, Saysana LB-5277
Phelps, Matthew LB-5012
Phok, Sochea LB-5278
Pholwat, Suporn LB-5045
Pichugin, Alexander LB-5046
Pinedo-Cancino, Viviana LB-5205
Pokharel, Sunil LB-5110
Pollett, Simon LB-5222, LB-5223
Polsomboon, Suppaluck LB-5007
Ponaka, Reddy LB-5416
Poti, Kristin LB-5127
Prat, Christine LB-5148
Printz, Naomi LB-5128
Pritt, Bobbi LB-5072
Priyamvada, Lalita LB-5366
Prorok, Monika LB-5183
Pujhari, Sujit LB-5367
Punde, Neeraja LB-5206

Q

Quispe, Mariella LB-5337

R

Raj, Dipak LB-5047
Raja, Amber LB-5048
Raji, Mopelola LB-5279
Ratsimandisa, Rova LB-5408
Rausch, Kelly LB-5409
Razakamiadana, Solofo LB-5280
Reeseey, Emily LB-5338
Reina Ortiz, Miguel LB-5150
Ricciardi, Alessandra LB-5063
Rice, Christopher LB-5360
Rick, Tara LB-5240
Riehle, Michelle LB-5008
Riley, Christina LB-5410
Ritmeijer, Koert LB-5417
Rivera-Correa, Juan LB-5049
Robinson, Sara LB-5411
Rodrigues, Janneth LB-5009
Rodriguez, Pamela LB-5339
Roh, Michelle LB-5340
Rojas, Diana LB-5429
Ross, Jennifer LB-5412
Ruybal-Pesántez, Shazia LB-5341

S

Sahlu, Ida LB-5384
Sakanari, Judy LB-5184
Salas, Carola LB-5050, LB-5207
Salazar-Mirallas, Fernando LB-5073
Saman, Andrew LB-5281
Sánchez-Váldez, Fernando LB-5026
Sang, Rosemary LB-5298
Santivanez, Saul LB-5230
Saran, Indrani LB-5385

Satpathi, Sanghamitra LB-5282
Schultz, Jonathan LB-5017
Sessions, October LB-5368
Shah, Rashed LB-5155
Shane, Jackie LB-5208
Sharp, Tyler LB-5149
Siegel, Sasha LB-5445
Silal, Sheetal LB-5209
Simuyandi, Michelo LB-5440
Siqueira, Joao Bosco LB-5430
Skillman, Kristen LB-5342
Small, Scott LB-5164
Smidler, Andrea LB-5318
Smith, Darci LB-5307
Sodipo, Michelle LB-5441
Spencer, Jennifer LB-5309
Srimuang, Krongkan LB-5051
Steel, Ryan LB-5343
Stephens, Jessica LB-5111
Stewart, Aisha LB-5084
Sucupira, Izis LB-5165
Sulaiman, Irshad LB-5013, LB-5014
Sullivan, David LB-5344
Sun, Bo LB-5224
Sutcliffe, James LB-5010
Svadzian, Anita LB-5288

T

Tacoli, Costanza LB-5129
Tan, John LB-5225
Tandoh, Marina LB-5015

Tchuem Tchuente, Louis-Albert LB-5064
Tenywa, Frank LB-5210
Tessema, Sofonias LB-5283
Thaisomboonsuk, Butsayya LB-5299
Thomson-Luque, Richard LB-5053
Tornyigah, Bernard LB-5211
Toure, Mahamoudou LB-5054
Tovar, Catalina LB-5027
Travi, Bruno LB-5431
Tsai, Jih-Jin LB-5432
Tsai, Kun-Hsien LB-5351
Tseng, Christopher LB-5345
Turner, Joseph LB-5255
Ty, Maureen LB-5055
Tyagarajan, Kamala LB-5346

U

Udoeye, Ifeanyichukwu LB-5130
Ujuju, Chinazo LB-5413
Unger, Holger LB-5414
Upfill-Brown, Alexander LB-5085

V

Vala, Anifa LB-5241
van Griensven, Johan on behalf of the Ebola_Tx Consortium LB-5151
Vaughn, Mike LB-5097

Vohra, Rahat LB-5112
Voit, Eberhard LB-5212
von Sonnenburg, Frank LB-5300
Vu, Trung LB-5369

W

Warren, Chris LB-5131
Wassmer, Sam LB-5132
Watson, Oliver LB-5446
Weatherhead, Jill LB-5304
Westercamp, Nelli LB-5098
White, Pamela LB-5303
Widman, Douglas LB-5370
Williams, Adeline LB-5166
Wilson, Philip LB-5347
Wojnarski, Mariusz LB-5133
Wongstitwilairoong, Tippa LB-5242
Wrammert, Jens LB-5371

Y

Yadava, Anjali LB-5134
Yasnot, Maria LB-5056, LB-5243
Yen, Ko Lun LB-5301
Yen, Tsai-Ying LB-5319

Z

Zaidi, Irfan LB-5213
Zinsou, Cyprien LB-5135