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Late-Breaker Abstract Session 16

Late-Breakers in Basic Science

Convention Center – Room 602/603/604 (6th Floor)

Monday, October 31, 11:15 a.m. - 12:30 p.m.

CHAIR

Yai Justin Doritchamou

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

Jill Weatherhead

National School of Tropical Medicine, Baylor College of Medicine, Houston, TX, United States

11:15 a.m.

LB-5157

REAVR Effector Genes Induce Arbovirus Resistance in Transgenic *Aedes aegypti*

Anak Agung Dewi Megawati¹, Jingyi Lin¹, William R. Reid¹, Christie Herd¹, Chen Peng², Greg Brennan³, Stefan Rothenburg³, Alexander Franz¹

¹University of Missouri, Columbia, MO, United States, ²China Agricultural University, Beijing, China, ³University of California, Davis, CA, United States

11:25 a.m.

LB-5158

Promising Results from the First-Ever Mosquito RNA interference (RNAi) Yeast Larvicide Field Trial

Molly Duman-Scheel¹, Nikhella Winter², Akilah Stewart¹, Keshava Mysore¹, Azad Mohammed², David W. Severson³

¹Indiana University School of Medicine, South Bend, IN, United States, ²University of the West Indies, St. Augustine, Trinidad and Tobago, ³University of Notre Dame, Notre Dame, IN, United States

11:35 a.m.

LB-5159

Evaluating the primate malaria parasites *P. cynomolgi* and *P. knowlesi* as in vitro models for understanding *P. vivax* invasion and vaccinology

Sheena Dass¹, Prasun Kundu², Deboki Naskar², Usheer Kanjee¹, Marcelo U. Ferreira³, Julian C. Rayner², Manoj T. Duraisingh¹

¹Harvard School of Public Health, Boston, MA, United States, ²Cambridge Institute for Medical Research,

Cambridge, United Kingdom, ³University of São Paulo, São Paulo, Brazil

11:45 a.m.

LB-5160

Elucidation of Antimalarial Drug Resistance Determinants using a *P. falciparum* RF7 (KEL1/PLA1) × NF54 Genetic Cross in a Humanized Mouse Model

Sachel Mok¹, Tomas Yeo¹, Melanie J. Shears², Leila S. Ross¹, Kurt E. Ward¹, Abhai K. Tripathi², Mariko Kanai¹, Jessica L. Bridgford¹, Anna Y. Burkhard¹, Felix D. Rozenberg¹, Heekuk Park¹, Anne-Catrin Uhlemann¹, Photini Sinnis², David A. Fidock¹

¹Columbia University Irving Medical Center, New York, NY, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

11:55 a.m.

LB-5161

Distinguishing recrudescence from reinfection in lymphatic filariasis: a genomics-based approach for monitoring worm burden

Young-Jun Choi¹, Kerstin Fischer¹, Méité Aboulaye², Benjamin G. Koudou³, Peter U. Fischer¹, Makedonka Mitreva¹

¹Washington University School of Medicine, St. Louis, MO, United States, ²Programme National de la Lutte Contre la Schistosomiase, Les Geohelminthiases et la Filariose Lymphatique, Abidjan, Côte D'Ivoire, ³Centre Suisse de Recherche Scientifique en Côte d'Ivoire, Abidjan, Côte D'Ivoire

Late-Breaker Abstract Session 16

Late-Breakers in Basic Science

Convention Center – Room 602/603/604 (6th Floor)

Monday, October 31, 11:15 a.m. - 12:30 p.m.

12:05 p.m.

LB-5162

Stomach environment permits *Ascaris* egg hatching and larval pathogenicity

Jill Weatherhead

Baylor College of Medicine, Houston, TX, United States

12:15 p.m.

LB-5163

An expose of Sahelian high-altitude windborne mosquitoes: diversity, composition, seasonality and potential for disease transmission, surveillance, and control

Tovi Lehmann¹, Adama Dao², Yvonne-Marie Linton³, Moussa Diallo², Zana L. Sanogo², Djibril Samake², Yossi Ousmane², Cedric Kouam¹, Benjamin J. Krajacich¹, Roy Faiman¹, Roland Bamou¹, Joshua Woo⁴, Jason W. Chapman⁵, Don R. Reynolds⁶, Alpha S. Yaro²
¹NIAID, Bethesda, MD, United States, ²Malaria Research and Training Center (MRTC)/Faculty of Medicine, Pharmacy and Odonto-stomatology, Bamako, Mali, ³Walter Reed Biosystematics Unit, Smithsonian Institution Museum Support Center, Suitland, MD, United States, ⁴Krieger School of Arts and Sciences, Johns Hopkins University, Baltimore, MD, United States, ⁵Centre for Ecology and Conservation, and Environment and Sustainability Inst., University of Exeter, Penryn, United Kingdom, ⁶Natural Resources Institute, University of Greenwich, Hapenden, United Kingdom

Late-Breaker Abstract Session 64
Late-Breakers in Clinical and Applied Sciences
Convention Center – Room 6C (6th Floor)
Tuesday, November 1, 12:15 p.m. - 1:30 p.m.

CHAIR

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

Sharon M. Tennant
University of Maryland, Baltimore, MD, United States

12:15 p.m.

LB-5317

Development of a broad-spectrum semi-synthetic conjugate vaccine for the prevention of Salmonella infections

Scott M. Baliban¹, Chang-Xin Huo², Cameron Talbot², Xingling Pan², Sharon M. Tennant¹, Xuefei Huang²
¹*Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States*, ²*Departments of Chemistry and Biomedical Engineering, Institute for Quantitative Health Science & Engineering, Michigan State University, East Lansing, MI, United States*

12:25 p.m.

LB-5318

Post-mortem ultrasound measurement of trans-cerebellar diameter and cerebellar vermis height allows estimating gestational age in perinatal autopsies

Jaume Ordi, **Natalia Rakislova**, Nuria Carreras-Dieguez, Lorena Marimon, Quique Bassat, Raquel Gonzalez, Clara Menéndez
Barcelona Institute for Global Health, Barcelona, Spain

12:35 p.m.

LB-5319

Visual Outcomes for bilaterally blind patients undergoing cataract surgery in the developing world

Arthur Brant¹, Suzann Pershing², Natasha Gonzalez³, Akwasi Ahmed⁴, Andrew DesLawrence⁵, Kanwal Matharu¹, Geoffrey Tabin¹
¹*Stanford University, Mountain View, CA, United States*, ²*Stanford University, Stanford, CA, United States*, ³*UCSF, San Francisco, CA, United States*

States, ⁴*Komfo Anokye, Kumasi, Ghana*, ⁵*University of Vermont, Burlington, VT, United States*

12:45 p.m.

LB-5320

Leptospirosis among patients presenting with fever in the multi-center Febrile Illness Evaluation in a Broad Range of Endemicities (FIEBRE) study

John Crump¹, Polycarp Mogeni², Paul N. Newton³, Amandine Houvert⁴, Vallier Sordoillet⁴, Sham Lal², Mayfong Mayxay⁵, Edward Green⁶, Marta Valente⁷, Justina M. Bramugy⁷, Chrissy Roberts², David CW Mabey², Heidi Hopkins², Mathieu Picardeau⁴
¹*University of Otago, Dunedin, New Zealand*, ²*London School of Tropical Medicine & Hygiene, London, United Kingdom*, ³*Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine, University of Oxford, Oxford, United Kingdom*, ⁴*Unité Biologie des Spirochètes, French National Reference Center for Leptospirosis, Institut Pasteur, Paris, France*, ⁵*Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU), Mahosot Hospital, Vientiane, Lao People's Democratic Republic*, ⁶*Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi*, ⁷*Centro de Investigação em Saúde de Manhiça, Maputo, Mozambique*

Late-Breaker Abstract Session 64

Late-Breakers in Clinical and Applied Sciences

Convention Center – Room 6C (6th Floor)

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

12:55 p.m.

LB-5321

An adaptive phase II dose-escalation randomized clinical trial to evaluate the safety and efficacy of a single or three-day fixed-dose albendazole-ivermectin combination versus albendazole for the treatment of *Trichuris trichiura* infections.

Stella Kepha¹, Alejandro Krolewieck², Pedro Fleitas², Michel Bengtson³, Paul Gichuki¹, Carlos Mwandembo¹, Wendemagegn Enbiale⁴, Javier Gandasegui², Lisette van Lieshout³, Augusto Messa Junior⁵, Woyneshet Gelaye⁴, Maria Cambra- Pellejà⁶, Jaime Algorta⁷, Almudena Legarda², Martin Rono¹, Charles Mwandawiro¹, Jose Muñoz²
¹KEMRI, Nairobi, Kenya, ²Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, ³Leiden University Medical Centre, Leiden, Netherlands, ⁴Bahir Dar University, Bahir Dar, Ethiopia, ⁵Centro de Investigação em Saúde da Manhiça (CISM), Manhiça, Mozambique, ⁶Universidad de León, Leon, Spain, ⁷Liconsa SA, Azuqueca de Henares, Madrid, Spain

1:05 p.m.

LB-5322

Effect of bi-annual community-directed distribution with ivermectin and a community-based "Slash and Clear" vector control method on the incidence of onchocerciasis-associated epilepsy in Maridi, in South Sudan: a three-year prospective study.

Stephen Raimon Jada¹, **Luís-Jorge Amaral**², Jane Carter³, Makoy Yibi Logora⁴, Yak Yak Bol⁴, Robert Colebunders²
¹African Medical and Research Foundation, Juba, South Sudan, ²Global Health Institute, University of Antwerp, Antwerpen, Belgium, ³African Medical and Research Foundation, Nairobi, Kenya, ⁴Neglected Tropical Diseases Unit, Ministry of Health, Republic of South Sudan, Juba, South Sudan

1:15 p.m.

LB-5323

Letters from Syria: A Phase III Study of Transfluthrin Envelopes for Leishmaniasis Control in Humanitarian Settings

Richard Allan, Ramona Scherrer, Hendrik Sauskojus
The MENTOR Initiative, Haywards Heath, United Kingdom

Late-Breaker Abstract Session 103

Late-Breakers in Malaria

Convention Center – Room 6AB (6th Floor)

Wednesday, November 2, 11:15 a.m. - 12:30 p.m.

CHAIR

Carol H. Sibley
University of Washington, Seattle, WA, United States

Shannon Takala Harrison
University of Maryland School of Medicine, Baltimore, MD, United States

Karl Seydel
Michigan State University, East Lansing, MI, United States

11:15 a.m.

LB-5489

Genomic analysis of *Plasmodium falciparum* in Ethiopia reveals repeated clonal expansion hrp2/3 deleted parasites, and spread of kelch 13 R622I mutation

Abebe A. Fola¹, Sindew M Feleke², Hussein Mohammed², Bokretzion Gidey², Chris Hennelly³, Ashenafi Assefa³, Rebecca Defeo¹, Jonathan J Juliano³, Jane Cunningham⁴, Gudissa Assefa⁵, Hiwot Solomon⁵, Geremew Tasew², Jonathan B Parr³, Jeffrey A Bailey Bailey¹

¹*Department of Pathology and Laboratory Medicine, Warren Alpert Medical School, Brown University, Providence, RI, United States*, ²*Ethiopian Public Health Institute, Addis Ababa, Ethiopia*, ³*Institute for Global Health and Infectious Diseases, Department of Medicine, Division of Infectious Diseases and Department of Geography, University of North Carolina, North Carolina, NC, United States*, ⁴*Global Malaria Programme, World Health Organization, Geneva, Swaziland*, ⁵*Ministry of Health, Addis Ababa, Ethiopia*

11:25 a.m.

LB-5490

Considerable post-treatment transmission after sulfadoxine-pyrimethamine/amodiaquine but near complete prevention of mosquito infection after artemether-lumefantrine: a randomized-clinical trial in Ouellesebougou, Mali.

Almahamoudou Mahamar¹, **Merel J. Smit**², Will Stone³, Koualy Sanogo¹, Youssouf Sinaba¹, Sidi Niambale⁴, Adama Sacko¹, Sekouba Keita¹, Oumar Dicko¹, Makonon Diallo¹, Seydina O. Maguiraga¹, Siaka Samake¹, Kjerstin Lanke⁵, Karina Teelen⁵, Rob ter Heine⁶, John Bradley⁷, Djibrilla Issiaka¹, Sekou F.

11:35 a.m.

LB-5491

Sterile protection against *Plasmodium yoelii* challenge by a same-day prime-and-trap is enabled by potent repRNA LION™-based priming

Marion AVRIL¹, Zach MacMillen¹, Kiara Hatzakis¹, Amit Khandhar², Jesse H. Erasmus², Melanie J. Shears³, Sean C. Murphy³, Brandon Wilder⁴, Steven Reed², James Davie¹
¹*MalarVx, Inc, SEATTLE, WA, United States*, ²*HDT Bio, SEATTLE, WA, United States*, ³*University of Washington, SEATTLE, WA, United States*, ⁴*Oregon Health Science University, Portland, OR, United States*

11:45 a.m.

LB-5492

The R21/Matrix-M™ malaria vaccine: results from a phase III trial and future plans

Mehreen Datoo¹, Alassane Dicko², Mainga Hamaluba³, Ally Olotu⁴, Jean Bosco Ouedraogo⁵, Halidou Tinto⁶, Katie J. Ewer¹, Umesh Shaligram⁷, Adrian V. S. Hill for the R21 Vaccine Phase III Trial Group¹
¹*The Jenner Institute, University of Oxford, Oxford, United Kingdom*, ²*Malaria Research and Training Centre, University of Bamako, Bamako, Mali*, ³*Centre for Geographic Medicine Research, Coast, Kenya Medical Research Institute-Wellcome Trust Research Programme, Kilifi, Kenya*, ⁴*Ifakara Health Institute, Bagamoyo, United Republic of Tanzania*, ⁵*Institut des Sciences et Techniques, Bobo-Dioulasso, Burkina Faso*, ⁶*Unité de Recherche Clinique de Nanoro, Institut de Recherche en Sciences de la Santé, Nanoro, Burkina Faso*, ⁷*Serum Institute of India Pvt Ltd, Pune, India*

Late-Breaker Abstract Session 103

Late-Breakers in Malaria

Convention Center – Room 6AB (6th Floor)

Wednesday, November 2, 11:15 a.m. - 12:30 p.m.

11:55 a.m.

LB-5493

The spatial and temporal progression of the invasive malaria vector *Anopheles stephensi* in Ethiopia and Sudan

Martin Donnelly¹, CEASE Consortium²

¹Liverpool School of Tropical Medicine

12:05 p.m.

LB-5494

Out of Africa: Role of Pfs47 and Pv47 in the Adaptation of *Plasmodium falciparum* and *Plasmodium vivax* to Malaria Vectors Worldwide

Alvaro Molina-Cruz¹, Nadia Raytselis¹, Lilia Gonzalez-Ceron², Xinzhuan Su¹, Anthony Ford³, Myriam Arevalo-Herrera⁴, Sócrates Herrera⁴, Eugenia Lo³, Carolina Barillas-Mury¹

¹LMVR / NIAID / NIH, Rocville, MD, United States, ²Instituto Nacional de Salud Pública, Chiapas, Mexico, ³University of North Carolina, Charlotte, NC, United States, ⁴Consortio para la Investigación Científica Cauceseco, Cali, Colombia

12:15 p.m.

LB-5495

Preliminary results of the New Nets Project pilot evaluations in Mozambique: Epidemiological trends through twelve months

Joseph Wagman¹, Binete Savaio², Hannah Koenker³, Christen Fornadel⁴, Ana Paula Abílio⁵, Baltazar

Candrinho⁶

¹PATH, Washington, DC, United States, ²PATH, Zambezia, Mozambique, ³Tropical Health LLP, Baltimore, MD, United States, ⁴IVCC, Liverpool, United Kingdom, ⁵Instituto Nacional de Saúde, Maputo, Mozambique, ⁶Programa Nacional de Controlo da Malária, Maputo, Mozambique

Late-Breaker Abstract Session 104

Late-Breakers in Virology

Convention Center – Room 6C (6th Floor)

Wednesday, November 2, 11:15 a.m. - 12:30 p.m.

CHAIR

Noreen A. Hynes

Johns Hopkins School of Medicine, Baltimore, MD, United States

Wei-Kung Wang

University of Hawaii, Honolulu, HI, United States

11:15 a.m.

LB-5496

Chikungunya virus-like particle vaccination elicits antibodies that target similar epitopes as those generated by natural CHIKV infection

Pari Kapila¹, Yerun Zhu¹, Daniel O. Espinoza¹, James T. Earnest¹, Rohan Edupuganti¹, James E. Crowe, Jr², Emily E. Coates³, Jaime A. Cardona-Ospina⁴, Alfonso J. Rodriguez-Morales⁴, Matthew H. Collins¹

¹Emory University, Atlanta, GA, United States, ²Vanderbilt University, Nashville, TN, United States, ³Vaccine Research Center, National Institutes of Health, Bethesda, MD, United States, ⁴Institucion Universitaria Vision de las Americas, Pereira, Colombia

11:25 a.m.

LB-5497

Mutation of SARS-CoV-2 nonstructural protein 16 sensitizes the virus to innate immunity and attenuates pathogenesis in vivo

Craig Schindewolf¹, Kumari Lokugamage¹, Michelle N. Vu¹, Bryan A. Johnson¹, Dionna Scharon¹, Jessica A. Plante¹, Birte Kalvaram¹, Stephanea Sotcheff¹, Kenneth S. Plante¹, Kari Debbink², Matthey D. Daugherty³, Andrew L. Routh¹, Vineet Menachery¹

¹University of Texas Medical Branch, Galveston, TX, United States, ²Bowie State University, Bowie, MD, United States, ³University of California, San Diego, CA, United States

11:35 a.m.

LB-5498

Effect of malaria infection on Epstein- Barr viral reactivation in children

Gabriela M. Samayoa Reyes

University of Colorado, Denver, CO, United States

11:45 a.m.

LB-5499

Safety and immunogenicity of an Ad26.ZEBOV booster dose in Human Immunodeficiency Virus positive (HIV+) adults vaccinated with the Ad26.ZEBOV, MVA-BN-Filo vaccine regimen at least 4 years previously

Abu-Baker Mustapher Ggayi¹, Zacchaeus Anywaine¹, Michael Mutua², Gloria Omosa-Manyonyi², Michael Katwere³, Chelsea McLean³, Edward Choi⁴, Julie Foster⁴, Omu Anzala², Pontiano Kaleebu¹, Deborah Watson-Jones⁴, EBL2010 Study Team⁵
¹The Medical Research Council (MRC)/UVRI and London School of Hygiene & Tropical Medicine (LSHTM) Uganda Research Unit, Entebbe, Uganda, ²Institute of Clinical Research (KAVI), Nairobi, Kenya, ³Janssen Vaccines & Prevention B.V., Leiden, Netherlands, ⁴London School of Hygiene & Tropical Medicine (LSHTM), London, United Kingdom

11:55 a.m.

LB-5500

Seroprevalence and demographic risk factors of dengue fever in Burkina Faso: national survey results

Siaka Debe

Centre national de recherche et de formation sur le paludisme, Ouagadougou, Burkina Faso

Late-Breaker Abstract Session 104

Late-Breakers in Virology

Convention Center – Room 6C (6th Floor)

Wednesday, November 2, 11:15 a.m. - 12:30 p.m.

12:05 p.m.

LB-5501

Single-visit rabies vaccination as pre-exposure prophylaxis induces a rapid and effective anamnestic antibody response

Lisanne A. Overduin¹, Jan Pieter R. Koopman¹, Phaedra L. Eblé², Corine Prins¹, Petra H. Verbeek-Menken¹, Perry J. J. van Genderen³, Cornelis A. de Pijper⁴, Leo G. Visser¹

¹*Leiden University Medical Center, Leiden, Netherlands*, ²*Wageningen Bioveterinary Research, Lelystad, Netherlands*, ³*Erasmus Medical Center, Rotterdam, Netherlands*, ⁴*Amsterdam University Medical Center, Amsterdam, Netherlands*

12:15 p.m.

LB-5502

Metagenomic investigation of dengue-like illness in Pakistan- first in-country detection of Zika

Najeeha Talat Iqbal¹, **John Cornelius**², Erum Khan¹, Faisal Mehmood¹, Asefa Shariq¹, Muhammad A. Syed¹, Renee Ireton², Jennifer T. Go², Kathleen Voss², Peter M. Rabinowitz², Wes Van Voorhis², Michael Gale, Jr.²
¹*Aga Khan University, Karachi, Pakistan*, ²*University of Washington, Seattle, WA, United States*

Poster Session 14

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

Convention Center - Hall 4A (4th Floor)

Late-Breakers in Basic Sciences

Basic Sciences - Arthropods/Entomology	#LB-5000 through LB-5010
Basic Sciences - Bacteriology and Diarrhea.....	#LB-5011
Basic Sciences - Kinetoplastida	#LB-5012
Basic Sciences - Protozoa	#LB-5013 through LB-5014
Basic Sciences - Malaria	#LB-5015 through LB-5044
Basic Sciences - Basic Sciences - One Health: The Interconnection between People, Animals, Plants and Their Shared Environment	#LB-5045 through LB-5054
Basic Sciences - Pneumonia, Respiratory Infections and Tuberculosis	#LB-5055
Basic Sciences - Trematodes	#LB-5056
Basic Sciences - Water, Sanitation, Hygiene and Environmental Health	#LB-5057 - LB-5060

Late-Breakers in Clinical and Applied Sciences

Clinical and Applied Sciences - Bacteriology and Diarrhea.....	#LB-5061 through LB-5071
Clinical and Applied Sciences - Global Health	#LB-5072 through LB-5091
Clinical and Applied Sciences - HIV and Tropical Co-Infections ...	#LB-5092 through LB-5096
Clinical and Applied Sciences - Kinetoplastida	#LB-5097 through LB-5104
Clinical and Applied Sciences - Protozoa	#LB-5105 through LB-5106
Clinical and Applied Sciences - Malaria	#LB-5107 through LB-5134
Clinical and Applied Sciences - Pneumonia, Respiratory Infections and Tuberculosis	#LB-5135 through LB-5139
Clinical and Applied Sciences - Viruses (all other viruses)	#LB-5140 through LB-5156

LB-5000

Diverse viral small RNAs in geographically distinct *Aedes aegypti*: implications for vector competence

Adeline E. Williams¹, Nelson C. Lau², Irma Sanchez-Vargas³, Zheng Zhu², Gargi Dayama², Shruti Gupta², Chao Zhang², Karla Saavedra-Rodriguez³, Tereza Magalhaes³, Brendan Carter⁴, Dawn M. Wesson⁴, Sarah Wheeler⁵, Angela Carnaci⁶, Trinidad Reyes⁷, Jessica Manning¹, Eric Calvo¹, Ken E. Olson³
¹NIH/NIAID, Rockville, MD, United States, ²Boston University, Boston, MA, United States, ³Colorado State University, Fort Collins, CO, United States, ⁴Tulane University, New Orleans, LA, United States, ⁵Sacramento-Yolo Mosquito & Vector Control District, Sacramento, CA, United States, ⁶Northwest Mosquito & Vector Control District, Corona, CA, United States, ⁷Madera County Mosquito & Vector Control, Madera, CA, United States

LB-5001

Assessing vector competence for *Plasmodium falciparum* in a male-biased *Anopheles coluzzii* transgenic strain

Keri O. Harp¹, Vincent O. Nyasembe¹, Katelyn R. Cavender¹, Benjamin Lee¹, Mark Q. Benedict¹, John B. Connolly², Priscila Bascunan¹, Ellen M. Dotson³
¹CDC Foundation, Atlanta, GA, United States, ²Imperial College London, London, United Kingdom, ³CDC, Atlanta, GA, United States

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5002**Effect of El-Niño Southern Oscillation and local weather on Aedes vector activity from 2010 to 2018 in Kalutara district, Sri Lanka: a two-stage hierarchical analysis**

Prasad Liyanage¹, **Yesim Tozan**², Hans J. Overgaard³, Hasitha Aravinda Tissera⁴, Joacim Rocklöv⁵

¹National Institute of Health Sciences, Ministry of Health, Kalutara, Sri Lanka, ²New York University School of Global Public Health, New York, NY, United States, ³Faculty of Science and Technology, Norwegian University of Life Sciences, Ås, Norway, ⁴Epidemiology Unit, Ministry of Health, Colombo, Sri Lanka, ⁵Heidelberg Institute of Global Health & Interdisciplinary Centre for Scientific Computing, Heidelberg University, Heidelberg, Germany

LB-5003**Wolbachia mediated changes in lipid metabolism suppress Zika virus infection in Aedes albopictus cells**

Brent Edwards, Elodie Ghedin, Denis Voronin
NIH, Bethesda, MD, United States

LB-5004**Evaluating the Emergence of the Gulf Coast Tick and Associated Pathogens in South Carolina**

Lauren Turner¹, Melissa Nolan¹, Kyndall Dye-Braumuller¹, Chris Evans², Lauren Rustin²

¹University of South Carolina, Columbia, SC, United States, ²Department of Health and Environmental Control, Columbia, SC, United States

LB-5005**Identification of microRNAs in the West Nile virus vector Culex tarsalis**

Sultan Asad¹, Ahmed Murtaza Mehdi², Sujit Pujhari³, Claudia Rückert Rückert⁴, Gregory D Ebel⁵, Jason L Rasgon¹

¹Pennsylvania State University, University Park, PA, United States, ²The University of Queensland, Translational Research Institute, Brisbane, Australia, ³Department of Pharmacology Physiology and Neuroscience, University of South Carolina School of Medicine, South Carolina, SC, United States, ⁴Department of Biochemistry and Molecular Biology, University of Nevada Reno, , NV, 89557, USA, Reno, NV, United States, ⁵Center for Vector-borne

Infectious Diseases, Department of Microbiology, Immunology and Pathology, College of Veterinary Medicine and Biomedical Sciences, Colorado State University, Fort Collins, CO, United States

LB-5006**Interactions between relative humidity and viral vector competence in Aedes aegypti**

Jaime Manzano¹, Gerard Terradas¹, Christopher J. Holmes², Sultan Asad¹, Joshua B. Benoit², Jason L. Rasgon¹

¹The Pennsylvania State University, State College, PA, United States, ²University of Cincinnati, Cincinnati, OH, United States

LB-5007**Rearing of Wolbachia-infected Aedes aegypti on artificial blood, SkitoSnack, impacts host fertility**

Megan Allman, Ya-Hsun Lin, Albert Joubert, Jessica Addley-Cook, Chris Barlow, Heather Flores, Johanna Fraser, Scott Ritchie, Cameron Simmons
Monash University, Clayton, Australia

LB-5008**Metagenomics of Phlebotomus papatasi and Lutzomyia longipalpis**

Michelle S. Huang¹, Daniel J. Bruzzese¹, Douglas A. Shoue¹, Jeffrey L. Feder¹, Stephen Richards², Mary Ann McDowell¹

¹University of Notre Dame, Notre Dame, IN, United States, ²Baylor College of Medicine, Houston, TX, United States

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5009

Vector-borne pathogens are spread by high-altitude windborne migrating mosquitoes in Africa

Roland BAMOU¹, Cedric Kouam¹, Adama Dao², Y. Afrane³, AR Mohammed³, Roy Faiman¹, AS Yaro², CM Owusu-Asenso³, G. Akosah-Brempong³, CMAP Zong³, M. Diallo², ZL Sanogo², D. Samake², BJ Krajacich¹, Y-M Linton⁴, Rita Nartey¹, Jason Chapman⁵, DR Reynolds⁶, Tovi Lehmann¹

¹National Institute of Health, Rockville, MD, United States, ²Malaria Research and Training Center (MRTC)/Faculty of Medicine, Pharmacy and Odontostomatology, Bamako, Mali, ³Department of Medical Microbiology, University of Ghana Medical School, University of Ghana, Accra, Ghana, ⁴Walter Reed Biosystematics Unit, Smithsonian Institution Museum Support Center, Suitland MD, USA and Department of Entomology, Smithsonian Institution, National Museum of Natural History, Washington DC, USA, Suitland, MD, United States, ⁵Centre for Ecology and Conservation, and Environment and Sustainability Inst., University of Exeter, Penryn, Cornwall, UK and College of Plant Protection, Nanjing Agricultural University, Nanjing, P. R. China., Penryn, United Kingdom, ⁶Natural Resources Institute, University of Greenwich, Chatham, Kent ME4 4TB, and Rothamsted Research, Harpenden, Hertfordshire AL5 2JQ, UK, Harpenden, United Kingdom

LB-5010

Aedes aegypti from select regions in Kenya show resistance to multiple insecticides.

Fredrick Eyase¹, Santos Yalwala², Stephanie Cinkovich³, Gladys Kerich², David Oullo², Richard Ochieng², Eunice Achieng², Janet Ambale², Francis Ngere², Charles Waga², David Abuom², Nicholas Odemba², Solomon Langat⁴, Daniel Boudreaux⁵, Elly Ojwang², Jaree Johnson⁶

¹USAMRD-A/KEMRI, Kisumu, Kenya, ²USAMRD-A, Kisumu, Kenya, ³AFSHB-GEIS, Silver Spring, MD, United States, ⁴KEMRI, Nairobi, Kenya, ⁵AFRIMS, Bangkok, Thailand, ⁶Medical Service Corps, Silver Spring, MD, United States

LB-5011

Genomic characterization of a Cronobacter sakazakii strain, sequence type 4, isolated from raw cucumber

Irshad M. Sulaiman, Nancy Miranda, Steven Simpson, Kevin Karem

U. S. Food and Drug Administration, Atlanta, GA, United States

LB-5012

Kissing Bugs: Illinois Collections to Measure Public Health Importance

Catherine Dana Santanello, Ellen Santos
Southern Illinois University Edwardsville, Edwardsville, IL, United States

LB-5013

Macrophage Activation by Extracellular Vesicles derived from Babesia-infected Red Blood Cells

Biniam Hagos, Ioana Brasov, Heather Branscome, **Robert E. Molestina**
American Type Culture Collection, Manassas, VA, United States

LB-5014

Mycocytosis and nutrient uptake in Colpodella sp. (ATCC 50594) investigated using FluoSpheres and E. coli BioParticles

Tobili Y. Sam-Yellowe, Mary Asraf
Cleveland State University, Cleveland, OH, United States

LB-5015

O-fucosylation of circumsporozoite protein is essential for sporozoite motility of the human malaria parasite Plasmodium falciparum

Priya Gupta¹, Nastaran Rezakhani¹, Nelly Camargo¹, Kenza Oualim¹, Ashley Vaughan¹, Kristian Swearingen²
¹Seattle Children's Research Institute, seattle, WA, United States, ²Institute for Systems Biology, seattle, WA, United States

LB-5016

Expanding Oral Anopheles RNAi Utility with Genome-Wide Bacterial Clone Libraries

Caston Banham, Joanna Owen, **Michael Wells**
Idaho College of Osteopathic Medicine, Meridian, ID, United States

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5017**Discovery of WM382 – a Potent Dual Plasmeprin IX/X Inhibitor towards the Treatment of Malaria**

Manuel de Lera Ruiz¹, Paola Favuzza², Zhuyan Guo¹, Lianyun Zhao¹, Bin Hu³, Zhiyu Lei³, Dongmei Zhang³, Nicholas Murgolo⁴, Christopher Boyce¹, Marissa Vavrek¹, Anna Ngo², Kate Jarman², Jonathan Robbins⁵, Justin A. Boddey², Brad E. Sleebs², Kym Lowes², Jennifer K. Thompson², Alan Cowman², David B. Olsen¹, John A. McCauley¹

¹Merck, North Wales, PA, United States, ²Walter and Eliza Hall Institute, Melbourne, Australia, ³WuXi, Shanghai, China, ⁴Merck, Kenilworth, PA, United States, ⁵Merck, Boston, MA, United States

LB-5018**Protective anti-malaria immunity induced in group 1 CD1-transgenic human immune system mice**

Kazuya Masuda¹, Jing Huang¹, Yukiko Tsuji¹, Sumana Chakravarty², Ildiko Rhjin³, David B. Moody³, Gerard Eberl⁴, Richard Flavell⁵, Kim Lee Sim², Stephen L. Hoffman², Moriya Tsuji¹

¹Columbia University Irving Medical Center, New York, NY, United States, ²Sanaria Inc., Rockville, MD, United States, ³Harvard Medical School, Boston, MA, United States, ⁴Pasteur Institute, Paris, France, ⁵Yale University School of Medicine, Howard Hughes Medical Institute, New Haven, CT, United States

LB-5019**Impact of a second blood meal on P. vivax sporogonic development**

Sirasate Bantuchai¹, Vanutsarin Khongrsisak¹, Chalermpon Kumpitak¹, Apisak Duangmanee¹, Jetsumon Sattabongkot Prachumsri¹, Liwang Cui², Wang Nguitragool³

¹Mahidol Vivax Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand, ²University of South Florida, Tampa, FL, United States, ³Department of Molecular Tropical Medicine and Genetics, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

LB-5020**Integrating surveillance and genomic data to track dynamic changes of Plasmodium falciparum and provide better elimination measures for the African island country, Sao Tome and Principe**

Ying-An Chen¹, Arlindo Vicente de Assuncao Carvalho², Kun-Hisen Tsai³, Bryan Greenhouse⁴, Hsiao-Han Chang¹

¹National Tsing Hua University, Hsinchu, Taiwan, ²Sao Tome and Principe University, Sao Tome, Sao Tome and Principe, ³National Taiwan University, Taipei, Taiwan, ⁴University of California, San Francisco, San Francisco, CA, United States

LB-5021**Quality assessment of malaria microscopic diagnosis at the LPM-HALD of Dakar, Senegal, in 2020**

Mamane Nassirou GARBA¹, Awa Bineta DEME¹, Mamadou Alpha DIALLO¹, Younouss DIEDHIOU¹, Amadou Mactar MBAYE¹, Marème DIA², Anna SECK², Daba ZOUMAROU¹, Yaye Dié NDIAYE¹, Lamine NDIAYE¹, Tolla NDIAYE¹, Serigne Khadim DIONGUE¹, Mame Cheikh SECK¹, Mouhamadou NDIAYE¹, Aida Sadikh BADIANE¹, Daouda NDIAYE¹

¹International Research & Training Center in Applied Genomics and Health Surveillance (CIGASS), Cheikh Anta Diop University, Dakar, Senegal, ²LPM-HALD, Dakar, Senegal

LB-5022**Epidemiological parameters of malaria at the end of the dry season and during the transmission season in Kalifabougou**

Safiatou N. Doumbo, Abdoulaye N. Traore, Aissata Ongoiba, Didier Doumtabe, Abdrahamane Traore, Samba Sacko, Kassoum Kayentao, Peter Crompton, Boubacar Traore
Malaria research and training center/ICER/Mali, Bamako, Mali

LB-5023**Epigenetic regulation of innate immune genes and enhanced interleukin-10 expression underlie chronic asymptomatic Plasmodium chabaudi infection**

Leandro S. Silva¹, Yen A. Nguyen¹, Brian G. Monkys¹, Catherine S. Forconi¹, Juliet N. Crabtree¹, Tomás Rodriguez¹, Nelsy P. Tamburro¹, Erik J. Sontheimer¹, Gabor L. Horvath², Zeinab Abdullah², Eicke Latz², Daniel R. Caffrey¹, Evelyn Kurt-Jones¹, Ricardo T. Gazzinelli¹, Katherine A. Fitzgerald¹, Douglas T. Golembock¹

¹University of Massachusetts Chan Medical School, Worcester, MA, United States, ²University of Bonn, Bonn, Germany

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5024**Elucidating the role of var2CSA in the pathogenesis of severe malaria in children**

Henrietta E. Mensah-Brown¹, Justin Y. Doritchamou¹, Jonathan Renn¹, Robert D. Morrison¹, Pragyan Acharya¹, Amadou Barry², Almahamoudou Mahamar², Oumar Attaher², Gaoussou Santara², Moussa Traore², Djibrilla Issiaka², Youssoufa Sidibe², Yahia T. Dicko², Sekouba Keita², Adama B. Dembele², Bacary S. Diarra², Alassane Dicko², Michal Fried¹, Patrick E. Duffy¹
¹National Institutes of Health, Bethesda, MD, United States, ²Malaria Research and Training Center, University of Sciences, Techniques, and Technologies, Bamako, Mali

LB-5025**Copy number variations of Plasmodium vivax DBP, EBP, and RBP2b in Duffy-positive and Duffy-negative Ethiopians**

Kareem Pestana¹, Rei Rama¹, Beka Abagero¹, Jean Popovici², Delenasaw Yewhalaw³, Eugenia Lo¹
¹University of North Carolina at Charlotte, Charlotte, NC, United States, ²Institut Pasteur, Phnom Penh, Cambodia, ³Jimma University, Jimma, Ethiopia

LB-5026**Stringent identification of Plasmodium falciparum-specific CD4 T cells from peripheral blood utilizing single cell RNA sequencing**

Yonghou Jiang¹, Marc Carlson¹, John Houck¹, Sudhir Kumar¹, Blair Armistead¹, Irfan Zaidi², Stefan Kappe¹, Patrick Duffy², Michal Fried², Whitney E. Harrington³
¹Center for Global Infectious Disease Research, Seattle Children's Research Institute, Seattle, WA, United States, ²Laboratory of Malaria Immunology and Vaccinology, NIAID, NIH, Bethesda, MD, United States, ³Center for Global Infectious Disease Research, Seattle Children's Research Institute; Department of Pediatrics, University of Washington, Seattle, WA, USA, Seattle, WA, United States

LB-5027**CD4⁺ T cell STING is a cGAMP sensor that drives development of IL-10-producing Th1 cells during malaria**

Christian Engwerda¹, Yulin Wang¹, Bridget Barber¹, James McCarthy², Michelle Boyle¹

¹QIMR Berghofer, Brisbane, Australia, ²University of Melbourne, Melbourne, Australia

LB-5028**Paradigm shift in vector control: Insecticide-Free Trapping Bednet to Control Mosquitoes and Manage Resistance in Malaria Vector Control.**

Chouaibou S. Mouhamadou
CSRS, Abidjan, Côte D'Ivoire

LB-5029**Potent antiplasmodial activity of tea extracts and compounds from endemic Puerto Rican plants**

Claudia Andrea Ospina¹, Emilee E. Colón², Angenil García¹, Adelfa E. Serrano²
¹Inter American University of Puerto Rico, Bayamon, PR, United States, ²University of Puerto Rico Medical Sciences Campus, San Juan, PR, United States

LB-5030**Mapping Malaria Prevalence in Kenya by Reconciling Changes in Administrative Regions using MCMC and Deep learning**

Elizaveta Semenova¹, Swapnil Mishra², Samir Bhatt², Seth Flaxman¹, H. Juliette T. Unwin³
¹University of Oxford, Oxford, United Kingdom, ²University of Copenhagen, Copenhagen, Denmark, ³Imperial College London, London, United Kingdom

LB-5031**Cross - border malaria transmission scenario in Zanzibar: a major obstacle for malaria elimination**

Safia Mohammed Ali
Zanzibar Malaria Elimination Program, Zanzibar, United Republic of Tanzania

LB-5032**Mechanisms affecting sporozoite prevalence in wild mosquito populations**

Isaac James Stopard¹, Ben Lambert², Thomas S. Churcher¹
¹Imperial College London, London, United Kingdom, ²University of Exeter, Exeter, United Kingdom

Poster Session A Presentations

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LB-5033

Spatio-temporal analysis of host-pathogen interactions during malaria infection of the liver

Franziska Hildebrandt¹, Joel Vega-Rodriguez², Noémi van Hul³, Joakim Lundeberg⁴, Johan Ankarklev¹
¹Department of Molecular Biosciences, Stockholm University, Stockholm, Sweden, ²Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ³Karolinska Institutet, Stockholm, Sweden, ⁴KTH, Centres, Science for Life Laboratory, SciLifeLab. KTH, School of Engineering Sciences in Chemistry, Biotechnology and Health (CBH), Gene Technology., Stockholm, Sweden

LB-5034

Evaluation of Compound A as a novel antiplasmodial lead against multiple parasitic stages

Angélica M. Rosado-Quiñones¹, Emilee E. Colón-Lorenzo¹, Sergio Ramos², Roberto Díaz-González¹, Abiel Roche-Lima¹, Susan Leed³, Alison Roth⁴, Joel Vega-Rodríguez⁵, Adelfa Serrano¹
¹University of Puerto Rico - Medical Sciences Campus, San Juan, PR, United States, ²Salamanca Institute of Biomedical Research, Salamanca, Spain, ³Walter Reed Army Research Institute, Silver Spring, MD, United States, ⁴Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁵National Institute of Allergy and Infectious Diseases, NIH, Rockville, MD, United States

LB-5035

Inhibition studies and interaction partners point to a role for the Plasmodium falciparum Acetyl-CoA Synthetase in the regulation of chromatin in blood stage parasites

Robert L. Summers¹, Charisse F. Pasaje², Beatriz Baragaña³, Jacquin C. Niles², Dyann F. Wirth¹, Amanda K. Lukens⁴
¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Massachusetts Institute of Technology, Cambridge, MA, United States, ³University of Dundee, Dundee, United Kingdom, ⁴Broad Institute, Cambridge, MA, United States

LB-5036

Barriers and facilitators of full integration of seasonal malaria chemoprevention with Vitamin A supplementation: a qualitative enquiry

Jesujuwonlo J. Fadipe¹, Olusola Oresanya¹, Ebenezer Okechukwu¹, Taiwo Ibinaiye¹, Olabisi Ogunmola¹, Jane Achan¹, Abimbola Phillips², Kabir Muhammad³, Emmanuel Shekarau⁴, UMAR BABUGA ABUBAKAR⁵, Nneka Onwu⁶
¹Malaria Consortium, Abuja, Nigeria, ²CIHP, Abuja, Nigeria, ³Malaria Consortium, Bauchi, Nigeria, ⁴National Malaria Elimination Programme, Nigeria, Abuja, Nigeria, ⁵State Malaria Elimination Program, Malaria Control Department, BACATMA, Bauchi, Nigeria, ⁶National Primary Health Care Development Agency, Community Health Services, Abuja, Nigeria

LB-5037

Understanding malaria elimination readiness in Senegal: a mixed method assessment in ten districts

Hamidou Thiam¹, Tabitha Kibuka¹, Elhadji Doucoure², Doudou Sene², **Cara Smith Gueye**³, Amanda Irish³, Alioune Badara Gueye⁴
¹U.S. President's Malaria Initiative Impact Malaria Project, Washington, DC, United States, ²National Malaria Control Program, Dakar, Senegal, ³University of California, San Francisco, CA, United States, ⁴U.S. President's Malaria Initiative, USAID, Dakar, Senegal

LB-5038

Plasmodium falciparum PF3D7_0715200 is a merozoite surface protein that induces antibodies with mild growth inhibitory activity.

HIKARU NAGAOKA¹, Bernard N. Kanoi², Koki Ogawa¹, Takafumi Tsuboi³, Eizo Takashima¹
¹Division of Malaria Research, Proteo-Science Center, Ehime University, Ehime, Japan, ²Centre for Research in Infectious Diseases, Directorate of Research and Innovation, Mount Kenya University, Thika, Kenya, ³Division of Cell-Free Sciences, Proteo-Science Center, Ehime University, Ehime, Japan

LB-5039

Lattice light-sheet microscopy of Plasmodium falciparum gametogenesis in 4D reveals essential roles for tryptophan C-mannosylation in transmission

Justin Boddey, Sash Lopaticki, Robyn McConville, Alan John, Niall Geoghegan, Shihab Deen Mohamed, Lisa Verzier, Ryan Steel, Cindy Evelyn, Matthew O'Neill, Niccolay Madioed Soler, Nichollas Scott, Kelly Rogers, Ethan Goddard-Borger
Walter and Eliza Hall Institute of Medical Research, Parkville, Australia

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5040**Multiallelic polymorphisms of short tandem repeats (STR) drive transcriptional variations of Plasmodium falciparum associated with artemisinin resistance.**

Zbynek Bozdech¹, Elizabeth A. Ashley², Arjen Dondorp², Olivo Miotto²
¹Nanyang Technological University, Singapore, Singapore, ²Mahidol-Oxford Tropical Medicine Research Unit, Thailand, Thailand

LB-5041**Discovery of Orally Efficacious, Resistance-Breaking Beta-Carboline Antimalarial MMV1803522**

Paul R. Carlier¹, Jopaul Mathew¹, Sha Ding¹, Kevin Kunz¹, Joshua H. Butler², Reagan S. Haney², Emilio F. Merino², Grant J. Butschek², Zaira Rizopoulos³, Max Totrov⁴, Maria B. Cassera²
¹Virginia Tech, Blacksburg, VA, United States, ²University of Georgia, Athens, GA, United States, ³Medicines for Malaria Venture, Geneva, Switzerland, ⁴Molsoft LLC, San Diego, CA, United States

LB-5042**Novel heterocyclic amides as anti-tubulin agents: evaluation of antiplasmodial activity**

Emilee E. Colón-Lorenzo¹, Sergio Ramos², Cristina Sanz², Angélica M. Rosado-Quiñones¹, Raquel Álvarez², Joel Vega-Rodríguez³, Adelfa E. Serrano¹, Rafael Peláez²
¹University of Puerto Rico-School of Medicine, San Juan, Puerto Rico, ²University of Salamanca, Salamanca, Spain, ³National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

LB-5043**Natural genetic diversity of multiple candidate vaccine antigens in Plasmodium falciparum across Africa with a focus on Zambia**

Ilinca I. Ciubotariu¹, Shaojun Xie¹, Jyothi Thimmapuram¹, Mulenga C. Mwenda², Abebe A. Fola¹, William J. Moss³, Daniel J. Bridges⁴, Giovanna Carpi¹
¹Purdue University, West Lafayette, IN, United States, ²PATH Malaria Control and Elimination Partnership in Africa, Lusaka, Zambia, ³Johns Hopkins

Bloomberg School of Public Health, Baltimore, MD, United States, ⁴DB Scientific Ltd, Lusaka, Zambia

LB-5044**Factors associated with increased malaria transmission in three native communities of the District of Rio Santiago, Condorcanqui, Peru**

Luis M. Rojas¹, J. Miguel Bernal-Fiestas², Rafael Tapia-Limonchi³, Cecilia Montes-Jave¹, Christopher Delgado-Ratto⁴, Dionicia Gamboa¹, **Stella M. Chenet**³
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Dirección Regional de Salud, Condorcanqui, Peru, ³IET, Universidad Nacional Toribio Rodríguez de Mendoza, Chachapoyas, Peru, ⁴Universidad de Amberes, Lima, Belgium

LB-5045**Decoding rRNA sequences for improved metagenomics in sylvatic mosquito species**

Cassandra Koh¹, Lionel Frangeul¹, Hervé Blanc¹, Carine Ngoagouni², Sébastien Boyer³, Philippe Dussart⁴, Nina Grau⁴, Romain Girod⁴, Jean-Bernard Duchemin⁵, Maria-Carla Saleh¹
¹Institut Pasteur, Paris, France, ²Institut Pasteur de Bangui, Bangui, Central African Republic, ³Institut Pasteur du Cambodge, Phnom Penh, Cambodia, ⁴Institut Pasteur de Madagascar, Antananarivo, Madagascar, ⁵Institut Pasteur de la Guyane, Cayenne, French Guiana

LB-5046**Modelling the potential impact of vaccination of dromedary camels on incidence of Middle East Respiratory Syndrome Coronavirus infection**

Amy B. Dighe¹, Thibaut Jombart², Neil Ferguson²
¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²MRC Centre for Global Infectious Disease Analysis, Imperial College London, London, United Kingdom

LB-5047**The impact of microenvironmental temperature datasource on estimation of dengue transmission**

Rebecca C. Christofferson¹, **Victor Hugo Pena Garcia**²
¹Louisiana State University, Baton Rouge, LA, United States, ²Stanford University, Medellin, Colombia

Poster Session A Presentations

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LB-5048

Japanese encephalitis emergence in Australia: its ecology and the population at risk.

Laith Yakob¹, Luis Furuya-Kanamori², Narayan Gyawali³, Colleen Lau⁴, Deborah Mills⁵, Leon E. Hugo³, Brian Johnson³, Wenbiao Hu⁶, Francesca Frentiu⁷, Ricardo Soares Magalhaes⁸, **Gregor Devine**³
¹Faculty of Infectious and Tropical Diseases, London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Centre for Clinical Research, University of Queensland, Brisbane, Australia, ³Mosquito Control Laboratory, QIMR Berghofer Medical Research Institute, Brisbane, Australia, ⁴School of Public Health, University of Queensland, Brisbane, Australia, ⁵Dr Deb The Travel Doctor, Travel Medicine Alliance, Brisbane, Australia, ⁶School of Public Health and Social Work, Queensland University of Technology, Brisbane, Australia, ⁷Faculty of Health, Queensland University of Technology, Brisbane, Australia, ⁸School of Veterinary Sciences, University of Queensland, Brisbane, Australia

LB-5049

Socio-ecological risk factors associated with rural household flea infestations in the plague endemic area of Madagascar

Annick Onimalala Raveloson¹, Stephen G. Mugel², Nick An², Andry Andriamiadanarivo³, Romain Girod¹, Thomas R. Gillespie², Adelaide Miarinjara²
¹Institut Pasteur de Madagascar, Antananarivo, Madagascar, ²Emory University, Atlanta, GA, United States, ³Centre Valbio, Ranomafana, Madagascar

LB-5050

Domestic mammals as potential reservoir hosts for *Leishmania donovani* in India

ASHISH SHUKLA¹, Anurag Kushwaha¹, Shyam Sundar¹, Christine Anne Petersen²
¹Department of Medicine, Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, ²Department of Epidemiology, College of Public Health, University of Iowa, Iowa, IA, United States

LB-5051

West Nile virus circulation in dromedary camels, Kenya

David P. Tchouassi, Josephine Osalla, Caroline Getugi, Edwin Ogola, Dorcus Omoga, Joel Bargul,

Baldwyn Torto, Rosemary Sang
International Centre of Insect Physiology and Ecology,
Nairobi, Kenya

LB-5052

High Seroprevalence of Zoonotic Parasites and Arboviruses in Sloths

Rita Juliet Corrales¹, Vanessa Pineda¹, Yamilka Diaz¹, Lisseth Saenz¹, Yanneth Pitty¹, Maria Chen¹, Jean Paul Carrera¹, Josefrancisco Galue¹, Sandra Lopez¹, Azael Saldana²
¹Gorgas Memorial Institute of Health, Panama, Panama, ²University of Panama, Panama, Panama

LB-5053

Is *Anopheles stephensi* in the Indian Ocean region? Mauritius as a model system for integrated and multisectoral vector surveillance and coordination

Diana Iyaloo¹, Ambicadutt Bheecarry¹, Nilesh Lamperouge¹, Rina Ramdonee¹, Khouaildi Bin Elahee¹, Hemant Bhoobun², Thierry Baldet³, Harena Rasamoelina⁴, Romain Girod⁵, Seth Irish⁶, Ryan Carney⁷, Tamar Carter⁸, **Sarah Zohdy**⁹
¹Vector Biology and Control Division, Ministry of Health and Wellness, Mauritius, Port Louis, Mauritius, ²National Veterinary Services, Port Louis, Mauritius, ³Indian Ocean Commission, SEGA One Health Network, CIRAD, Réunion, ⁴Indian Ocean Commission, SEGA One Health Network, Ebene, Mauritius, ⁵Indian Ocean Commission, SEGA One Health Network, Antananarivo, Madagascar, ⁶Swiss Tropical Public Health Institute, Basel, Switzerland, ⁷University of South Florida, Tampa, FL, United States, ⁸Baylor University, Waco, TX, United States, ⁹US Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5054

Leveraging a mobile lab and mitochondrial genomics for in situ, PCR-free species barcoding of zoonotic pathogen hosts and vectors in Guyana, South America

Evan J. Kipp¹, Marissa S. Milstein¹, Lexi E. Frank¹, Roxanne J. Larsen¹, Christopher A. Shaffer², Tiffany M. Wolf¹, Peter A. Larsen¹
¹University of Minnesota, St Paul, MN, United States, ²Grand Valley State University, Allendale, MI, United States

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm
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LB-5055**Viral Etiology of Severe acute respiratory infection surveillance during Pre and COVID-19 Pandemic in the Philippines****VINA LEA FONTELERA ARGUELLES**

Research Institute for Tropical Medicine, Muntinlupa, Philippines

LB-5056**The expression profile analysis of transient receptor potential (TRP) channel, the possible target of praziquantel in *Schistosoma japonicum***

Kaho Shinozaki¹, Masashi Kirinoki², Wanlop Atcharaphan¹, Ken-ichi Watanabe³, Yuma Ohari⁴, Saki Suguta¹, Keisuke Suganuma¹, Noboru Inoue¹, Shin-ichiro Kawazu¹

¹National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine, Hokkaido, Japan, ²Laboratory of Tropical Medicine and Parasitology, Dokkyo Medical University, Tochigi, Japan, ³Laboratory of Veterinary Pathology, Obihiro University of Agriculture and Veterinary Medicine, Hokkaido, Japan, ⁴Parasitology and Zoology Unit, Department of Veterinary Medicine, Rakuno Gakuen University, Hokkaido, Japan

LB-5057**Data Management System Software for Zoomlion Ghana Waste Management, A Case Study in Navrongo in the Kassena Nankana District, Ghana**

Dennis Owusu¹, Moses A. Agebure², Michael Obiri – Adjei³

¹Navrongo Health Research Centre, Navrongo, Ghana, ²C.K.Tedam University of Technology and Applied Sciences, Navrongo, Ghana, ³GIMPA Law Faculty P. O. Box AH50 Achimota, Accra, Ghana

LB-5058**Soil-transmitted helminths elimination in Kenya: Using mathematical modelling to guide policy**

Collins Okoyo¹, Prof. Graham Medley², Dr. Idah Orowe³, Dr. Nelson Onyango³, Dr. Charles Mwandawiro¹

¹Kenya Medical Research Institute, Nairobi, Kenya, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³University of Nairobi, Nairobi, Kenya

LB-5059**The Water Crisis in Peri-urban Communities in Liberia**

Samantha Tsang¹, Joseph Millward¹, Ben Kitson¹, Eric Filemyr¹, Jennifer Boyle¹, Wilbert E. Quintanilla², Steve Sara², Amos Gborie³, Nandita Kapadia-Kundu¹

¹Johns Hopkins University Center for Communication Programs, Baltimore, MD, United States, ²Save the Children, Washington DC, DC, United States, ³Environmental Public Health Consultancy of Liberia (EPHEL), Monrovia, Liberia

LB-5060**Exploring Social and Behavioral Determinants of Rural Sanitation in Liberia: A Cross-Sectional, Multilevel Analysis**

Joseph Millward¹, Samatha Tsang¹, Ben Kitson¹, Eric Filemyr¹, Jennifer Boyle¹, Steve Sara², Wilbert E. Quintanilla², Amos Gborie³, Nandita Kapadia-Kundu¹

¹Johns Hopkins University Center for Communication Programs, Baltimore, MD, United States, ²Save the Children, Washington DC, DC, United States, ³Environmental Public Health Consultancy of Liberia (EPHEL), Monrovia, Liberia

LB-5061**Development of a *Klebsiella pneumoniae* neonatal sepsis rodent model**

Jernelle C. Miller, Scott M. Baliban, Alan S. Cross, Sharon M. Tennant

Center for Vaccine Development and Global Health, University of Maryland, Baltimore, Baltimore, MD, United States

LB-5062**Determining where to conduct trachoma confirmatory mapping in the Tambacounda and Kédougou regions of Sénégal**

Mouctar D. Badiane¹, Serigne Niang², Rose Monteil², Achille Kabore³, Stephanie L. Palmer³

¹Programme National de Promotion de la Santé Oculaire, Dakar, Senegal, ²FHI 360 Senegal, Dakar, Senegal, ³FHI 360, Washington, DC, United States

LB-5063**Diarrheal Illness among US military deployed personnel in Honduras**

Faviola Reyes Quan

Naval Medical Research Unit 6, Comayagua, Honduras

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm
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LB-5064

Neonatal sepsis and subsequent post-infectious hydrocephalus in Ugandan infants due to *Paenibacillus*

Sarah Morton¹, Christine Hehnl², Kathy Burgione³, Paddy Ssentongo², Jessica E. Ericson², M. Senthil Kumar⁴, Cornelia Hagmann⁵, Claudio Fronterre⁶, Jasmine Smith², Mercedeh Movassagh⁴, Nicholas Streck², Lisa Bebell⁷, Joel Bazira⁸, Elias Kumbakumba⁸, Francis Bajunirwe⁸, Ronald Mulondo⁹, Edith Mbabazi-Kabachelor⁹, Brian N. Kaaya⁹, Davis Natukwatsa⁹, Ester Nalule⁹, Joshua Magombe⁹, Tim Erickson⁹, Joseph Ngongzi⁸, Ochora Moses⁸, Peter Olupot-Olupot³, Justin Onen⁹, Peter Ssenyonga⁹, John Mugamba⁹, Benjamin C. Warf¹, Abhaya V. Kulkarni¹⁰, Lijun Zhang², Kathryn Sheldon², Frederick A. Meier¹¹, Julius Kiwanuka², James R. Broach², Joseph N. Paulson², Steven J. Schiff¹²

¹Boston Children's Hospital, BOSTON, MA, United States, ²The Pennsylvania State University College of Medicine, Hershey, PA, United States, ³Mbale Regional Referral Hospital, Mbale, Uganda, ⁴Harvard T.H. Chan School of Public Health, BOSTON, MA, United States, ⁵University Children's Hospital Zurich, Zurich, Switzerland, ⁶Lancaster University, Lancaster, United Kingdom, ⁷Massachusetts General Hospital, BOSTON, MA, United States, ⁸Mbarara University of Science & Technology, Mbarara, Uganda, ⁹CURE Children's Hospital of Uganda, Mbale, Uganda, ¹⁰University of Toronto, Toronto, ON, Canada, ¹¹Henry Ford Hospital, Detroit, MI, United States, ¹²Yale School of Medicine, New Haven, CT, United States

LB-5065

Utility of paired immunofluorescent antibody serology and real-time PCR in the diagnosis of acute Q fever among febrile patients in Kilimanjaro, Tanzania, 2011-2014

Robert J. Rolfe, Jr¹, John A. Crump², Venance P. Maro³, Bingileki Lwezuala⁴, Blandina T. Mmbaga³, Wilbrod Saganda⁴, Marc R. Couturier⁵, Weston Hymas⁵, William L. Nicholson⁶, Gilbert J. Kersh⁶, Matthew P. Rubach¹

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LB-5066

Antibiotics use in a birth cohort from Lima, Peru

Mónica J. Pajuelo¹, Marcela Rivera-Gomez¹, Alejandra Pando¹, Maya Nadimpalli², Lilia Cabrera³, Mayuko Saito⁴, Robert H. Gilman⁵, Subhra Chakraborty⁵

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Emory Rollins School of Public Health, Atlanta, GA, United States, ³Asociación Benéfica Prisma, Lima, Peru, ⁴Tohoku University Graduate School of Medicine, Tohoku, Japan, ⁵Johns Hopkins University, Baltimore, MD, United States

LB-5067

Trends in Emergence of Extensively Drug Resistant Typhoid Fever in Pakistan from 2017-2019

Farah Naz Qamar¹, Mohammad Tahir Yousafzai¹, Ibtisam Qazi¹, Rozina Thobani¹, Sonia Qureshi¹, Afsheen Ghani¹, Sobia Tirmizi¹, Naor Bar Zeev², Shazia Sultana¹, Muhammad Jawwad¹, Aneeta Hotwani¹, Seema Irfan¹, Irum Iftikhar³, Summiya Nizamuddin⁴, Ikram Din Ujjan⁵, Ejaz Khan⁶, Ashraf Muhammad Memon⁷

¹Aga Khan University Hospital, Karachi, Pakistan, ²International Vaccine Access Center, Department of International Health, John Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Chughtai Laboratory Network, Karachi, Pakistan, ⁴Shaukat Khanum Memorial Cancer Hospital and Research Center, Lahore, Pakistan, ⁵Liaquat University of Medical & Health Sciences Jamshoro, Hyderabad, Pakistan, ⁶Shifa Hospital, Islamabad, Pakistan, ⁷Kharadar General Hospital, Karachi, Pakistan

LB-5068

Burden of Enteric Fever related Mortality in Karachi

Shazia Sultana, Sonia Qureshi, Farah Naz Qamar, Muhammad Tahir Yousafzai, Irum Fatima Dehraj, Ibtisam Qazi, Neelam Hirani, Najeel Rahman, Aga Khan University Hospital, Karachi, Pakistan

LB-5069

A Randomized Open Label Trial Evaluating the Efficacy of Two Dosing Regimens of Rifamycin SV MMX in the Treatment of Small Intestinal Bacterial Overgrowth (SIBO)

Bradley A. Connor, Marina Rogova, Jefferson Garcia, The New York Center for Travel and Tropical Medicine, New York, NY, United States

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

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LB-5070

Prospective multicentre study of host response signatures in neonatal sepsis in Sub Saharan Africa

Nadine Fievet¹, **Sem Ezinmegnon**², Marine Mommert³, Francois Bartolo⁴, Gino Agbota¹, Sossou Darius¹, Valérie Briand⁵, Marceline d'Almeida⁶, Maroufou Jules Alao⁷, Ida Dossou-Dagba⁸, Achille Massougbodji⁹, Ulrik Lausten-Thomsen¹⁰, Alexandre Pachot¹¹, Laurence Vachot¹¹, Javier Yugueros-Marcos¹², Karen Brengel-Pesce¹¹, Pierre Tissieres¹³

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LB-5071

Parasitic and microbial contamination of street food and associated risk factors with street food consumption in Dhaka city, Bangladesh

Priyanka Barua, Krishna Sukonya Banik, Sharmila Saha, Sangita Ahmed, Sharmin Musa
University of Dhaka, Dhaka, Bangladesh

LB-5072

High-resolution characterization of recent tuberculosis transmission in Botswana using geospatial and genomic data - the Kopanyo Study

Chelsea Baker¹, Ivan Barilar², Leonardo de Araujo², Anne Rimoin³, Daniel Parker¹, Rosanna Boyd⁴, James Tobias⁵, Patrick Moonan⁵, Eleanor Click⁵, Alyssa Finlay⁶, John Oeltmann⁵, Vladimir Minin¹, Chawangwa Modongo⁷, Nicola Zetols⁸, Stefan Niemann², Sanghyuk Shin¹

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LB-5073

Effect of a community health worker proactive home visiting intervention on child survival: a cluster-randomized trial

Emily Treleaven¹, Jenny Liu², Caroline Whidden³, Saibou Doumbia³, Naimatou Kone³, Amadou Beydi Cisse³, Aly Diop⁴, Mohamed Berthé⁴, Mahamadou Guindo⁴, Ibrahim M. Koné⁴, Michael Fay⁵, Nancy Padian², Ari Johnson², Kassoum Kayentao⁶
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LB-5074

Seroprevalence of hepatitis B virus markers in pregnant women at the Bacteriology virology Laboratory of Aristide Le Dantec CHU in 2021

MAR GUEYE

Aristide Le Dantec University Hospital, Dakar, Senegal

LB-5075

The effect of azithromycin on post discharge growth in Kenyan children 1 to 59 months

Hannah E. Atlas¹, Shawon R. Ara¹, Kirkby D. Tickell¹, Lucy Bunyige², Irene Monchuar², Susan Oongo², Mame M. Diakhate¹, Rebecca L. Brander³, Meshak Liru⁴, George Bogonko⁵, Ruth Nduati⁶, Benson O. Singa², Barbra A. Richardson¹, Grace John-Stewart¹, Judd L. Walson¹, Patricia B. Pavlinac¹, Christine J. McGrath¹
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Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

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LB-5076

Getting back on track for diseases of poverty, disadvantage, and underdevelopment

Konstantina Boutsika¹, Erik Blas², Peter Kwehangana Mbabazi³, Graham Alabaster⁴, Ahmad Raеisi⁵, Justin McBeath⁶, Luciano Tuseo⁷, Mah Talat⁸, Dudley Tarlton⁹

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LB-5077

Real-time Monitoring and Forecasting of Dengue Activity Using Ensemble Approaches

Rudi Verbeeck¹, Veronique Lins¹, Guillermo Herrera-Taracena², Cedric Marsboom³, Leonardo Clemente⁴, Austin G. Meyer⁴, Skyler Wu⁴, Lucas M. Stolerman⁵, Serge Masyn¹, Mauricio Santillana⁴

¹Johnson & Johnson, Beerse, Belgium, ²Johnson & Johnson, Horsham, PA, United States, ³AVIA-GIS, Zoersel, Belgium, ⁴Northeastern University, Boston, MA, United States, ⁵Oklahoma State University, Oklahoma City, OK, United States

LB-5078

Patterns of concordance in antimicrobial resistance between hospitalized Kenyan children and their caregivers

Stephanie N. Tornberg-Belanger¹, Doreen Rwigy², Kevin M. Kariuki², Elizabeth Mutuko², Timothy Mutuma², Peter Njoroge², Hannah E. Atlas¹, Mame M. Diakhate¹, R. Scott McClelland¹, Olusegun O. Soge¹, Kirkby D. Tickell¹, Samuel Kariuki², Benson O. Singa³, Judd L. Watson¹, Patricia B. Pavlinac¹

¹University of Washington, Seattle, WA, United States, ²Centre for Microbiology Research, Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, ³Kenya Medical Research Institute (KEMRI), Nairobi, Kenya

LB-5079

Therapeutic Drug Monitoring and Its Impact on Tuberculosis Treatment Outcomes among Patients with Diabetes Mellitus in the USA.

Yosra Alkabab¹, Jon Warkentin², Eric Houpt³, Charles Peloquin⁴, David Ashkin⁴, Amanda Khalil⁵, Laura Young⁵, Brenda MontoyaDenison⁶, Evan Timme⁷, Jazon Cummins⁸, Agnes Bartok⁶, Scott Heysell³

¹Medical University of South Carolina, CHARLESTON, SC, United States, ²Department of Health, Tennessee, TN, United States, ³University of Virginia, Charlottesville, VA, United States, ⁴University of Florida, Gainesville, FL, United States, ⁵Virginia Department of Health, Richmond, VA, United States, ⁶New Mexico Department of Health, Santa Fe, NM, United States, ⁷Arizona Department of Health Services, Arizona, AZ, United States, ⁸Tennessee Department of Health, Tennessee, TN, United States

LB-5080

The mCCM effect. A qualitative study on malaria case management at the community level in rural South-East Madagascar

Hoby Fenitra Rabesandratra¹, Andres Garchitorea¹, Emilia Brazy-Nancy¹, Chiarella Mattern¹, Aina Harimanana¹, Brune-Estelle Ramiranirina², Laurent Kapesa³, Jocelyn Razafindrakoto³

¹Institut Pasteur de Madagascar, Antananarivo, Madagascar, ²National Malaria Control Program, Antananarivo, Madagascar, ³U.S. President's Malaria Initiative, USAID, Madagascar, Antananarivo, Madagascar

LB-5081

A State-Wide Vector-borne Disease Survey: Frequency of Mosquito and Tick Bites

Ahalya Muraleedharan, Melissa Nolan
University of South Carolina, Columbia, SC, United States

LB-5082

Challenges in organizing quality non-communicable diseases services at primary healthcare level in Bangladesh

Ashrafal Kabir
Monash University, St Kilda, Australia

Poster Session A Presentations

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LB-5083

Evaluating the accuracy of self-testing modalities among rural, minority populations: the ALL-IN SC study

Madeleine Meyer, Kia Zellers, Melissa Nolan
University of South Carolina, Columbia, SC, United States

LB-5084

Improving Performance in Routine Data Management through Supportive Supervision Visits to Health Facilities in the Democratic Republic of the Congo

Johanna Nzigire Karemere¹, Platon Hababwema Miderho¹, Milan Milambu¹, Jadhoul Nkongolo¹, Erick Tshikamba², Yibayiri Osée Sanogo³, Erick Mukomena⁴, yazoume Ye¹

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LB-5085

Multidisciplinary approaches for the mother-child health improvement in Lambarene, Gabon, Central Africa.

Yabo Josiane HONKPEHEDJI¹, Ghyslain Mombongo², Olouyomi Scherif Adegnika¹, Bertrand Lell¹, Ayola Akim Adegnika¹, Meral Esen²

¹*CERMEL, LAMBARENE, Gabon*, ²*Institut für Tropenmedizin, Universität Tübingen, Tübingen, Germany*

LB-5086

Comparative analysis of in-person, virtual, and hybrid conferences in tuberculosis shows that virtual meetings included participants from more than double the number of countries and reduced carbon emissions by more than one thousand fold without compromising scientific quality

Kate Whitfield¹, Angela Ares², Teun Bousema³, Thale Jarvis⁴

¹*ISGlobal, Barcelona, Spain*, ²*Okinawa Institute of Science and Technology, Okinawa, Japan*, ³*RadboudUMC, Nijmegen, Netherlands*, ⁴*Keystone Symposium, Boulder, CO, United States*

LB-5087

National Representative Cross-Sectional Seroprevalence of Hepatitis E in Nepal, 2020-2021

Chulwoo Rhee¹, Dipesh Tamrakar², Jacqueline Lim¹, Il-Yeon Park¹, Nishan Katuwal², Nimesh Poudyal¹, Gi Deok Pak¹, Ritu Amatya³, Rajeev Shrestha², Julia Lynch¹

¹*International Vaccine Institute, Seoul, Republic of Korea*, ²*Research & Development Division, Dhulikhel Hospital, Kathmandu University Hospital, Dhulikhel, Nepal*, ³*Department of Microbiology, Nepal Medical College Teaching Hospital, Kathmandu, Nepal*

LB-5088

Monitoring quality of malaria surveillance data in select endemic counties in Kenya

Hellen Gatakaa¹, Elvis Oyugi², James Kiarie², George Wadegu¹, Jane Githuku¹, Victor Sumbi³, Mildred Shieshia³, Yazoume Ye¹

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LB-5089

Association between national health insurance scheme and out-of-pocket health expense in children: Evidence from Gabon

Olouyomi Scherif ADEGNIKA¹, Yabo Josiane Honkpehedji¹, Friederike Röder², Ayola Akim Adegnika¹, Bertrand Lell¹, Elisa Sicuri²

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Poster Session A Presentations

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Convention Center - Hall 4A (4th Floor)

LB-5090

The Noguchi Memorial Institute for Medical Research Africa CDC-WHO Regional Genomic Sequencing Hub: A Centre of Excellence for Regional Disease Outbreak Response

Bright Adu, Joseph K. H. Bonney, Isaac Darko-Otchere, Beverly Egyir, Evelyn Y. A. Bonney, Richard Akuffo, Selassie Kumordjie, Joyce Appiah-Kubi, Quaneeta Mohktar, Hilda Opoku Frempong, Bright Agbodzi, Clara Yeboah, Seyram B. Agbenyo, Peace Uche, Keren O. Attiku, Bernice Twenewaa Sekyere, Kwame Buabeng, Helena Lamptey, Prince Asare, George B. Kyei, John K. Odoom, Abraham K. Anang, Dorothy Yeboah-Manu
Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Ghana

LB-5091

Patient satisfaction among 26 selected hospitals implementing auditable pharmaceutical transactions and services (APTS) in Ethiopia

AYALEW ADINEW¹, Mamo Feyissa²
¹USAID Global Health Supply Chain-Procurement and Supply Management (GHSC-PSM) project, ETHIOPIA, Ethiopia, ²Department of Pharmacology and Clinical Pharmacy, Addis Ababa University, ETHIOPIA, Ethiopia

LB-5092

Acceptability of dihydroartemisinin-piperazine as malaria Intermittent Preventive Treatment among pregnant women living with HIV in Southern Mozambique

Tacilta Nhampossa¹, Khatia Munguambe¹, Celia Chauque¹, Mariza Chivangue¹, Maura Mazuze¹, Anete Mendes¹, Raquel Gonzalez², Laura Garcia-Otero², Esperança Sevene¹, Neusa Torres¹, Clara Menendez²
¹Centro de Investigação em Saúde da Manhica, Maputo, Mozambique, ²Barcelona Institute for Global Health, Barcelona, Spain

LB-5093

Costing of a combination intervention of economic empowerment and family strengthening (Suubi4Her) to prevent HIV risk behavior and improve mental health functioning among adolescent girls in Uganda

Yesim Tozan¹, Joshua Kiyingi², Sooyoung Kim¹, Flavia Namuwonge³, Florence Namuli³, Ozge Sensoy Bahar²,

Fred M. Ssewamala²

¹New York University School of Global Public Health, New York, NY, United States, ²Brown School, Washington University in Saint Louis, Saint Louis, MO, United States, ³International Center for Child Health and Development, Washington University in St. Louis, Uganda Field Office, Masaka, Uganda

LB-5094

Detection of Pathogens of Sepsis in Uganda using RNA Metagenomic Sequencing from Plasma

Brian S. Grundy, Hardik Parikh, Chris C. Moore, Jixian Zhang, Jie Liu, Eric R. Houpt
University of Virginia, Charlottesville, VA, United States

LB-5095

Botswana National Meningitis Survey: Implementing enhanced diagnostic platforms in low-resource, high HIV-prevalence settings to improve the diagnosis of central nervous system infections.

James Milburn¹, Kwana Lechiile², Goitseone Thamae², Tichaona Machiya³, Cassie Northcott², James Penney², Samuel Ensor², Imogen Mechie², Ronan Doyle¹, Kagiso Mochankana³, Bojosi Masheto³, Chris Williams², Tiny Mazhani³, Madisa Mine⁴, David M. Goldfarb⁵, Margaret Mokomane⁶, Joseph N. Jarvis¹
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LB-5096

'I can do it from the comfort of my house': The emerging importance of self-testing kits (STK) as a preferred method of HIV testing for GBMSM in Kenya.

Steve W. Bennett¹, DeAnne Turner², Mildred Mudany³, Apondi Odhiambo⁴, Festus Kisa⁵, Jane Otai³, Selene Awuondo³, Martin Chege³, Eunice Omanga³
¹Western Washington University, Bellingham, WA, United States, ²University of South Florida, Tampa, FL, United States, ³Help REACH Africa, Nairobi, Kenya, ⁴University of Toronto, Toronto, ON, Canada, ⁵Q Initiative, Eldoret, Kenya

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5097**Assessing the phenotype and function of circulating natural killer cells in subjects with chronic Chagas disease**

Maria A. Natale¹, Florencia Zabaleta², Josefina Elias¹, Maria G. Alvarez², Gonzalo Cesar¹, Maria C. Albarada¹, Maria B. Caputo¹, Bruno E. Lococo³, **Susana A. Laucella**¹

¹Instituto Nacional de Parasitología Dr. Mario Fatała Chabén, Buenos Aires, Argentina, ²Hospital Interzonal General de Agudos Eva Perón, Buenos Aires, Argentina, ³Hospital Interzonal General de Agudos Eva Perón, General San Martín, Argentina

LB-5098**Chagas disease seroprevalence among Latinx residents in South Carolina**

Chloe M. Rodriguez-Ramos¹, Mary Parker², Hanna Waltz¹, Kia Zellars¹, Jeff Hall³, Kylie Whittle⁴, Alain H. Litwin⁵, Patrick Kent⁶, Quang H. Pham⁶, Melissa S. Nolan¹

¹University of South Carolina, Columbia, SC, United States, ²University of South Carolina School of Medicine, Columbia, SC, United States, ³University of South Carolina School of Medicine and Prisma Health-Midlands, Columbia, SC, United States, ⁴Prisma Health-Midlands, Columbia, SC, United States, ⁵University of South Carolina School of Medicine-Greenville and Prisma Health-Upstate, Greenville, SC, United States, ⁶Prisma Health-Upstate, Greenville, SC, United States

LB-5099**One in five positive: community screening for Chagas disease in London, UK**

Natalie Elkheir¹, Liliana Sánchez Zelaya², Laura Valderrama Penagos², Laura Lopez², Rodrigo Ville¹, Estefania Sienra-Iracheta², Temitope Fisayo², Catherine Dominic², Pat Lok², Fionnuala Ryan², Ana Bayona², Jose García Romero², Clare Warrell³, Cristina Fernandez-Turienzo², Cristina Suarez², Debbie Nolder¹, Peter L. Chiodini³, David AJ Moore¹

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LB-5100**qPCR vs. dPCR: Comparing the Efficacies of Diagnostic Testing for Chronic Chagas Disease**

Kaaliyah Harris, Melissa Nolan, Kyndall Dye-Braumuller, Katie Lynn, Kia Zellars
University of South Carolina, Columbia, SC, United States

LB-5101**Monitoring of parasitemia on Trypanosoma cruzi/HIV coinfection by quantitative PCR: search for markers of preemptive therapy**

MARIA APARECIDA SHIKANAI - YASUDA¹, Vera T. Freitas¹, Christina T. Novaes², Sheila V. Silva¹, Caroline M. Oliveira³, Erika S. Nakanishi⁴, Noemia B. Carvalho⁵, Ana C. Sartori¹, Rita C. Bezerra⁶, Elizabeth N. Westphalen⁷, Carolina B. Richero⁸

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LB-5102**Functionalized Graphene Quantum Dot conjugated with Amphotericin B as a treatment option for Visceral Leishmaniasis.**

Prasoon Madhukar¹, Sundaram Panday¹, Rashmi Kesharwani², Mohammad Shaz², Shyam Sundar¹

¹Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, ²Institute of Science, Banaras Hindu University, Varanasi, India

LB-5103**Windows into leishmaniasis epidemiology in the United States: September 2021 - June 2022**

Joshua A. Lieberman, Karissa Crawford, Ichih M. Wang-McGuire, Kendal Jensen, Aisha Mushtaq, Frederick S. Buckner, Wesley C. Van Voorhis, Brad T. Cookson, Stephen J. Salipante
University of Washington, School of Medicine, Seattle, WA, United States

Poster Session A Presentations

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LB-5104**Development of a TESA-based rapid lateral flow test for Chagas disease**

Vashti Irani¹, Gabrielle Farulla-Bastian¹, Jeremy Schonhorn¹, Leah Carlson¹, Brooke Howland¹, Hetali Shah¹, Robert H. Gilman², **Andrew Levin¹**

¹*Kephera Diagnostics, LLC, Framingham, MA, United States*, ²*Johns Hopkins University, Baltimore, MD, United States*

LB-5105**Diagnosis of cutaneous leishmaniasis by microscopy + PCR: case of a Senegalese student at the Cheikh Anta Diop University of Dakar (UCAD) in 2022.**

Isaac A. MANGA¹, Cheikh Binetou FALL¹, Souleye LELO¹, Pab Carole Minlekib¹, Magatte Ndiaye¹, Khadime Sylla¹, Doudou Sow¹, Roger Clément Tine¹, Jean Louis Abdourahim Ndiaye², Babacar Faye¹

¹*Service de parasitologie et mycologie UCAD, Dakar, Senegal*, ²*Service de parasitologie et mycologie, UFR santé, Université Iba Der Thiam, Thiès, Senegal*

LB-5106**Elucidating Parasite and Host Cell Factors that Enable Babesia Infection in Sickie Trait and Sickie Red Cells under Hypoxic and Hyperoxic Conditions**

Divya Beri¹, Manpreet Singh¹, Marilis Rodriguez¹, Mihaela Barbu-Stevanovic¹, Giselle Rasquinha², Karina Yazdanbakhsh¹, Cheryl Lobo¹

¹*New York Blood Center, New York City, NY, United States*, ²*Georgetown University, Washington DC, DC, United States*

LB-5107**The role of a hematopoietic parasite reservoir in Plasmodium vivax infection and pathology**

Joao Luiz Silva-Filho¹, Joao CK Dos-Santos², Marcelo Brito³, Carla Judice², Helder Nakaya⁴, Erich De Paula², Stefanie Lopes⁵, Kevin Couper⁶, Thomas Otto¹, Gisely Melo³, Wuelton Monteiro³, Marcus Lacerda³, Fabio TM Costa², Matthias Marti¹

¹*University of Glasgow, Glasgow, United Kingdom*, ²*University of Campinas, Campinas, Brazil*, ³*Tropical Medicine Foundation Dr. Heitor Vieira Dourado, Manaus, Brazil*, ⁴*University of São Paulo, Sao Paulo, Brazil*, ⁵*Institute Leônidas & Maria Deane,*

Fiocruz, Manaus, Brazil, ⁶*University of Manchester, Manchester, United Kingdom*

LB-5108**Trends in retail sales of insecticide-treated nets and untreated nets in Tanzania**

Benjamin Kamala¹, Deo Mwingizi¹, David Dadi¹, Ato Selby¹, Dana Loll², Peter Gitanya³, Charles Dismas Mwalimu³, Frank Chacki³, Stella Kajange⁴, Sara Malima⁴, Naomi Serbantez⁵, Albert Ikonje⁵, Hannah Koenker⁶

¹*USAID-Tanzania Vector Control Activity/Johns Hopkins Centre for Communication Programs, Dar es Salaam, United Republic of Tanzania*, ²*USAID Tanzania Vector Control Activity, Johns Hopkins University Center for Communication Programs, Baltimore, MD, United States*, ³*Tanzania National Malaria Control Program, Ministry of Health, Dodoma, United Republic of Tanzania*, ⁴*President Office Regional Authority and Local Government, Dar es Salaam, United Republic of Tanzania*, ⁵*US President's Malaria Initiative, USAID, Dar es Salaam, United Republic of Tanzania*, ⁶*Tropical Health LLP, Baltimore, MD, United States*

LB-5109**Reducing the Proportion of Pregnant Women Lost to Follow Up of ANC and IPTp in six districts in Burundi**

Chanelle Muhoza¹, Annie Mutoni², Pierre Sinarinzi¹
¹*National Malaria Control Program, Bujumbura, Burundi*, ²*USAID, Projet TUBITEHO, Bujumbura, Burundi*

LB-5110**Substantial declines of Plasmodium falciparum cases in Cambodia have been achieved through effective surveillance, case management and innovative approaches**

Siv Sovannaroeth¹, Vichka Khy², Bunmeng Chhun², Elijah Filip², Julia Dunn³, Luciano Tuseo⁴, Céline Christiansen-Jucht⁴, Zaixing Zhang⁴, Huy Rekol¹
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Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5111

Incidence and risk factors for asymptomatic/submicroscopic malaria infections: prospective cohort in a community located in Loreto, Peru

Juan F. Sanchez¹, Hugo O. Valdivia¹, Maria J. Saenz², Keare A. Barazorda², Carola J. Salas¹, Greys E. Braga³, Carmen M. Lucas¹, Jacobo Diaz⁴, Silvia M. Montano⁵, Stephen E. Lizewski¹, Christie A. Joya¹

¹U.S. Naval Medical Research Unit No.6 (NAMRU-6), Lima, Peru, ²Vysnova, Lima, Peru, ³U.S. Naval Medical Research Unit No.6 (NAMRU-6), Iquitos, Peru, ⁴Padrecocha Health Center, Iquitos, Peru, ⁵Military Assistance Advisory Group (MAAG), U.S. Embassy, Lima, Peru

LB-5112

Preclinical evaluation in mice of a Vaccine to Interrupt Malaria Transmission (VIMT) by co-administration or co-formulation of chemically conjugated PfCSP and Pfs230 domain 1 nanoparticle vaccines

Kelly M. Rausch¹, David L. Narum¹, Emma K. Barnafo¹, Lynn Lambert¹, Karine Reiter¹, Vu Nguyen¹, Raul Herrera¹, Nicholas MacDonald¹, Alaysies Queen¹, Holly McAleese¹, Myesha Singleton¹, Solomon Conteh¹, Nada Alani¹, Irfan Zaidi¹, Olga Muratova¹, Jennifer Hume¹, Chris Janse², Andrew Lees³, Puthupparampil V. Scaria¹, Patrick E. Duffy¹

¹Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, 29 Lincoln Drive, Bethesda, MD, United States, ²Leiden Malaria Research Group, Parasitology, Center of Infectious Diseases, Leiden University Medical Center (LUMC), Leiden, Netherlands, ³Fina Biosolutions LLC, Rockville, MD, United States

LB-5113

Mining new targets for real-time PCR detection and differentiation of Plasmodium ovale curtisi and Plasmodium ovale wallikeri

Wenqiao He¹, Varun R. Potlapalli², Jessica T. Lin², Jonathan B. Parr²

¹Department of Epidemiology, School of Public Health, Southern Medical University, Guangzhou, China, ²Division of Infectious Diseases and Institute for Global Health and Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

LB-5114

Initial Assessment of the Quality of Malaria Routine Data in Selected Health Facilities in Sierra Leone 2021

Stanley Muoghalu¹, Umaru Dumbuya¹, Musa Sillah-Kanu², Ronald Carshon-Marsh², Esther Foday², Samba Kamara³, Agneta Mbithi¹, Yazoumé Yé¹

¹U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill and ICF, Chapel Hill, NC, United States, ²National Malaria Control Programme, Ministry of Health and Sanitation, Freetown, Sierra Leone, ³U.S. President's Malaria Initiative (PMI), USAID, Freetown, Sierra Leone

LB-5115

Intestinal injury in Ugandan children hospitalized with malaria

Michelle Ngai¹, **Michael T. Hawkes**², Clara Erice¹, Andrea M. Weckman¹, Julie Wright¹, Veselina Stefanova¹, Robert O. Opoka³, Sophie Namasopo⁴, Andrea L. Conroy⁵, Kevin C. Kain¹

¹The University of Toronto, Toronto, ON, Canada, ²The University of Alberta, EDMONTON, AB, Canada, ³Global Health Uganda, Kampala, Uganda, ⁴Kabale District Hospital, Kabale, Uganda, ⁵Indiana University, Indianapolis, IN, United States

LB-5116

Measuring impact of seasonal malaria chemoprevention using routine data sources.

Monica De Cola

Imperial College London, London, United Kingdom

LB-5117

Spatiotemporal spread of Plasmodium falciparum mutations for resistance to sulfadoxine-pyrimethamine across Africa, 1990 - 2020

Jennifer A. Flegg¹, Georgina S. Humphreys², Brenda Montanez³, Taryn Strickland³, Zaira J. Jacome-Meza³, Karen I. Barnes⁴, Jaishree Raman⁵, Philippe J. Guerin⁶, Carol H. Sibley⁷, **Sabina D. Otienoburu**³

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Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

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LB-5118**Estimating the duration of untreated polyclonal Plasmodium falciparum infections using longitudinal parasite genotyping data and a Bayesian model of infection history**

Rohan Arambepola¹, Sophie Bérubé¹, Betsy Freedman², Judith Mangeni³, Steve M. Taylor², Wendy Prudhomme O'Meara², Andrew A. Obala³, Amy Wesolowski¹

¹Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States, ²Division of Infectious Diseases, School of Medicine, Duke University, Durham, NC, United States, ³Moi University, Eldoret, Kenya

LB-5119**Spatial and Temporal Dynamics of Plasmodium Species in Asymptomatic Primary School Children in Different Ecological Zones of Ghana**

Felsa Buah

UNIVERSITY OF GHANA, ACCRA, Ghana

LB-5120**Point-of-care blood lactate measurement accurately risk-stratifies pediatric malaria patients with respiratory distress**

Catherine J. Mitran¹, Nicholas Conradi¹, Sophie Namasopo², Andrea L. Conroy³, Laura L. Hermann⁴, Robert O. Opoka⁵, Kevin Kain⁶, Michael Hawkes¹
¹University of Alberta, Edmonton, AB, Canada, ²Kabale Regional Referral Hospital, Kabale, Uganda, ³Indiana University, Indianapolis, IN, United States, ⁴Kelowna General Hospital, Kelowna, BC, Canada, ⁵Mulago Hospital and Makerere University, Kampala, Uganda, ⁶University of Toronto, Toronto, ON, Canada

LB-5121**Intermittent preventive treatment for malaria in pregnancy with sulphadoxine-pyrimethamine modulates the relationship between maternal inflammatory markers and adverse birth outcomes in a cohort from Malawi**

Elizabeth H. Aitken¹, Kaylene Cheng¹, Wina Hasang¹, Niamh Meager¹, Mwayiwawo Madanitsa², James Dodd³, Feiko ter Kuile³, Stephen Rogerson¹
¹Peter Doherty Institute, University of Melbourne, Melbourne, Australia, ²Malawi University of Science and

Technology, Thyol, Malawi, ³Liverpool School of Tropical Medicine, Liverpool, United Kingdom

LB-5122**A phase 1b study to characterise the pharmacokinetic/pharmacodynamic relationship of pyronaridine in healthy adult participants experimentally infected with blood stage Plasmodium falciparum**

Bridget E. Barber¹, Rebecca J. Webster¹, Adam Potter¹, Stacey Llewellyn¹, Stephan Chalon², Karsten Kuritz³, Anne Claire Marrast², Nathalie Gobeau², Joerg J. Moehrle²

¹QIMR Berghofer Medical Research Institute, Brisbane, Australia, ²Medicines for Malaria Venture, Geneva, Switzerland, ³IntiQuan GmbH, Basel, Switzerland

LB-5123**Practical implications for national scale-up and deployment of RTS,S malaria vaccine: findings from the health sector**

Phidelia T. Doegah¹, Evelyn Acquah¹, Samuel Gyasi², Paul Okyere³, Arti Singh⁴, Ellis Owusu-Dabo³, Eugene Darteh⁵, Akwasi Kumi-Kyereme⁵, Kofi Awusabo-Asare⁵, Seth Owusu-Agyei¹, Evelyn Ansa¹, Margaret Gyapong¹
¹University of Health and Allied Sciences, Ho, Ghana, ²University of Energy and Natural Resources, Sunyani, Ghana, ³Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁴Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ⁵University of Cape Coast, Cape Coast, Ghana

LB-5124**Private sector contributions to national malaria surveillance systems in elimination settings: Lessons learned from Cambodia, Lao PDR, Myanmar, and Vietnam**

Rebecca Potter¹, Kemi Tesfazghi², Stephen Poyer², **Lee-Ann Gallarano**²

¹University of Oslo, Oslo, Norway, ²Population Services International, Washington, DC, United States

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5125**Prevalence of subclinical Plasmodium falciparum infection among pregnant women and infants in Maferinyah, Guinea**

Mahamoud S. Cherif¹, **David M. Cook**², Mory Haidara¹, Alexandre Delamou¹, Bienvenu Camara¹, Aye Sousa², Kade Kallon², Daouda Camara¹, Idrissa Balde¹, Cece Kolie¹, Michel Koropogui¹, Esther Akpa², Justin Y. Doritchamou², Jillian Neal², Irfan Zaidi², Jennifer Kwan², Bruce Swihart², Abdoul Beavogui¹, Patrick Duffy²
¹PREGUI, Maferinyah, Guinea, ²NIH/NIAID, Bethesda, MD, United States

LB-5126**Efficacy of the RTS,S/AS01E malaria vaccine administered according to different fractional and full dose regimens under conditions of natural exposure in African children aged 5-17 months: First genotyping-based endpoint results from a phase 2b randomized controlled trial**

Michal Juraska¹, On behalf of the MAL095 Study Group²
¹Fred Hutchinson Cancer Center, Seattle, WA, United States

LB-5127**Population dynamics and genomic variation of Plasmodium falciparum malaria parasites from asymptomatic individuals in and around Ouélessébougou, Mali.**

Leen N. Vanheer¹, Emilia Manko¹, Ashley Osborne¹, Kjerstin Lanke², William Stone¹, Almahamoudou Mahamar³, Teun Bousema², Alassane Dicko³, Susana Campino¹, Chris Drakeley¹
¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²University of Nijmegen, Nijmegen, Netherlands, ³University of Sciences Techniques and Technologies of Bamako, Bamako, Mali

LB-5128**Pilot seasonal malaria chemoprevention implementation in Côte d'Ivoire: Acceptability and feasibility study**

Orphée Michelle KANGAH¹, Allassane HARO², Issaka ZONGO², William YAVO¹
¹National Institute of Public Health, Abidjan, Côte

D'Ivoire, ²Health Sciences Research Institute, Bobo Dioulasso, Burkina Faso

LB-5129**Toward a better bed net: community experiences and preferences for improved nets in Tanzania**

Ellen M. Santos¹, Ramadhani Bofu², Marceline Finda², Fredros Okumu²
¹Southern Illinois University Edwardsville, Edwardsville, IL, United States, ²Ifakara Health Institute, Ifakara, United Republic of Tanzania

LB-5130**Malaria Diagnostic Capacity in Areas Targeted for SubNational Elimination: Laikipia, Kirinyaga, Nyandarua, and Nyeri Counties, Kenya, 2020-2022**

Regina Kandie, Ahmeddin Omar, Rosebella Kiplagat, John Kabuagi Kabuagi, Daniel Nanzai, Safia Adam, Njoroge Mungai, Samwel Gachuhi, Evelyne Macharia, Francis Gitonga, Felix Fundi, Joy Gakenia
Ministry of Health, Nairobi, Kenya

LB-5131**Knowledge, attitudes, and practices regarding malaria in women of the Orang Rimba**

Maiti K. Peters¹, Elissa Z. Faro¹, Jenna E. Coalson², Bernard L. Nahlen³, Neil F. Lobo³
¹Roy J. and Lucille A. Carver College of Medicine, University of Iowa, Iowa City, IA, United States, ²The Carter Center, Atlanta, GA, United States, ³University of Notre Dame, South Bend, IN, United States

LB-5132**Application of accessibility-informed catchment models to improve interpretation of malaria surveillance data in the Democratic Republic of the Congo**

Alyssa J. Young¹, Ruth Ashton¹, Mel Mashiku², Johanna Karemere³, Jadhoul Nkongolo³, Yazoume Ye⁴, Polydor N. Mutombo⁵, Ewan Cameron⁶
¹Tulane School of Public Health and Tropical Medicine, Department of Tropical Medicine, New Orleans, LA, United States, ²Cherokee Nation Assurance Federal Contractor to CDC DVD Polio & Picornavirus Branch, Atlanta, GA, United States, ³U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Kinshasa, Democratic Republic of the Congo, ⁴U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Rockville, MD, United States, ⁵Southern Cross University, National Centre for Naturopathic Medicine, Melbourne, Australia, ⁶Malaria Atlas Project, Telethon Kids Institute, Perth, Australia

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm
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LB-5133**Factors influencing care-seeking and receipt of intermittent preventive treatment of malaria in pregnancy at antenatal care settings in three counties, Liberia**

Mamadou O. Diallo¹, Victor S. Koko², Laura A. Skrip³, Jethro W.S. Zawolo⁴, Wahdae-mai Harmon-Gray³, Jessica M. Kafuko⁵, Gaspar Mbita⁴, Julius S.M. Gilayeneh⁶, Odell Kumeh², Julie R. Gutman⁷
¹U.S. President's Malaria Initiative, Monrovia, Liberia; ²U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States, ³National Malaria Control Program, Ministry of Health, Monrovia, Liberia, ⁴School of Public Health, University of Liberia, Monrovia, Liberia, ⁵USAID Strategic Technical Assistance for Health (STAIP), Jhpiego, Monrovia, Liberia, ⁶U.S. President's Malaria Initiative, U.S. Agency for International Development (USAID), Monrovia, Liberia, ⁷National Public Health Institute of Liberia (NPHIL), Congo Town Back Road, Monrovia, Liberia, ⁸Malaria Branch, Center for Global Health, U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5134**Rare Plasmodium falciparum coronin gene mutations following ACT treatment of malaria in South Western Nigeria.**

Olusola Ajibaye¹, oriero Eniyu², Mary Oboh³, Yetunde Olukosi¹, Ikechukwu Nwankwo¹, chinaza Favour Nnam¹, Bamidele Iwalokun¹, Olawunmi V. Adaramoye⁴, Alfred Amambua Ngwa¹
¹Nigerian Institute of Medical research, Lagos, Nigeria, ²Medical research council, Banjul, Gambia, ³Medical research council, Banjul, Gambia, ⁴College of Medicine, University of Lagos, Lagos, Nigeria

LB-5135**Sociodemographic factors associated with respiratory illnesses and hospitalizations in Puerto Rico, January 2020 to December 2021**

Marijulie Martínez-Lozano¹, Dania M. Rodríguez¹, Lilibian Sánchez-González¹, Vanessa Rivera-Amill², Jorge Bertrán³, Laura Adams¹
¹Division of Vector Borne Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States, ²Ponce Health Sciences University/Ponce Research Institute, Ponce, PR, United States, ³Auxilio Mutuo Hospital, San Juan, PR, United States

LB-5136**Challenges with the diagnosis and management of a newborn exposed to maternal TB disease: CASE REPORT**

Kiriam Escobar Lee¹, Brenda I. Anosike²
¹Department of Pediatrics, Children's Hospital at Montefiore, Albert Einstein College of Medicine, Bronx, NY, United States, ²Department of Pediatrics, Children's Hospital at Montefiore, Albert Einstein College of Medicine, Antimicrobial Stewardship program, Division of Pediatric Infectious Diseases, Bronx, NY, United States

LB-5137**Delayed onset of community transmission of SARS-CoV-2 and other respiratory viral infections in Lao PDR: a hospital-based surveillance study**

Nathaniel Christy, Manivanh Vongsouvath, Andrew Letizia, Mayfong Mayxay, Audrey Dubot-Pérès, Elizabeth Ashley, Danoy Chommanam
NMRC, Silver Spring, MD, United States

LB-5138**Mosquito based sampling to track SARS CoV2 seropositivity in rural communities of Mali**

Djibril Samake¹, Benjamin J. Krajacich², adama Dao¹, Moussa Diallo¹, Zana L. Sanogo¹, Amatique Zeguime¹, Josue Podiougou¹, Alassane Assitoun¹, Kadiatou Cisse¹, Mamadou Traore¹, Roy Faiman², Alpha S. Yaro¹, Irfan Zaidi³, Patrick Duffy³, Tovi Lehmann²
¹Malaria Research and Training Center (MRTC)/Faculty of Medicine, Pharmacy and Odonto- stomatology, Bamako, Mali, Bamako, Mali, ²Laboratory of Malaria and Vector Research, NIAID, NIH, Rockville, MD, USA, Rockville, MD, United States, ³Laboratory of Malaria Immunology and Vaccinology, National Institutes of Health, USA, Rockville, MD, United States

LB-5139**Characterization of Acute Respiratory Infections in POST-COVID era in a healthcare institution in Cartagena de Indias Colombia- UNIR Project**

MARGARITA M. OCHOA-DIAZ¹, Hernando Pinzón Pinzón-Redondo², DANIELA OROZCO-GARCIA¹, RONALD S. FERNANDEZ-VASQUEZ¹, NATALIA LEMOS-CALLE¹
¹Universidad del Sinú Seccional Cartagena, Cartagena, Colombia, ²Universidad de Cartagena, Cartagena, Colombia

Poster Session A Presentations

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Convention Center - Hall 4A (4th Floor)

LB-5140**Human Bocavirus epidemiology from historical fecal samples in Brazil, 1998-2008**

Adriana Luchs¹, Ellen Viana¹, Yasmin França¹, Lais S. Azevedo¹, Roberta S. Medeiros¹, Raquel Guiducci¹, Simone G. Morillo¹, Emerson LL Araujo², Luana SS Farias³, Hugo R. Resque³, Antonio C. da Costa⁴
¹Adolfo Lutz Institute, Sao Paulo, Brazil, ²Ministry of Health (CGLAB/DAEVS/SVS-MS), Brasilia, Brazil, ³Evandro Chagas Institute, Belem do Para, Brazil, ⁴Institute of Tropical Medicine of São Paulo, Sao Paulo, Brazil

LB-5141**Enhanced Immunogenicity of Inactivated Dengue Vaccines by Novel Polysaccharide-Based Adjuvants in Mice**

Hua-Wei Chen¹, Shuenn-Jue Wu¹, Dan Ewing¹, Appavu Sundaram¹, Peifang Sun¹, Gregory Gromowski², Rafael De La Barrera², Megan Schilling¹, Nikolai Petrovsky³, Kevin Porter¹, Maya Williams¹
¹Naval Medical Research Center, Silver Spring, MD, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³Flinders University, Bedford Park, Australia

LB-5142**Estimated Seroprevalence of Previous Dengue Virus Infection Among Children Aged 8-13 Years – U.S. Virgin Islands, April-May 2022**

Joshua M. Wong¹, Valerie Mac¹, Hannah R. Volkman², Janice Perez-Padilla², Brian Wakeman³, Mark Delorey⁴, Brad J. Biggerstaff⁴, Anna Fagre¹, Freddy A. Medina², Hannah G. Rosenblum¹, Jamaal Carroll⁵, Jessica R. Meeker¹, Joseph Roth⁵, Julia Janssen¹, Lisa LaPlace Ekpo⁵, Rafael Tosado-Acevedo², Raymond Soto¹, Shanice Battle¹, Stephen M. Bart¹, Valentine Wanga¹, Gabriela Paz-Bailey², Esther M. Ellis⁵, Laura E. Adams², US Virgin Islands Dengue Serosurvey Field Team⁵
¹Epidemic Intelligence Service, CDC, Atlanta, GA, United States, ²Dengue Branch, Division of Vector-Borne Diseases, National Center for Emerging and Zoonotic Infectious Diseases, CDC, San Juan, PR, United States, ³Laboratory Leadership Service, CDC, Atlanta, GA, United States, ⁴Division of Vector-Borne Diseases, National Center for Emerging and Zoonotic Infectious Diseases, CDC, Ft. Collins, CO, United States, ⁵Virgin Islands Department of Health, Christiansted, St. Croix, Virgin Islands, U.S.

LB-5143**Evaluation of safety and immuno-efficacy of the next generation live attenuated yellow fever vaccine in cynomolgus macaques**

MANUEL VANGELISTI, Fabienne Piras-Douce, Karine Broudic, Emilie Chautard, Franck Raynal, Virgine Courtois, Sylviane Gautheron, Nathalie Mantel sanofi, LYON, France

LB-5144**Efficacy, safety, and immunogenicity of Takeda's tetravalent dengue vaccine candidate (TAK-003) after 4.5 years of follow-up**

Mayuri Sharma¹, Vianney Tricou², Eric Lloyd¹, Martina Rauscher², Heather Watkins³, Nicole Messere¹, Lydia Cox¹, Ayako Miura¹, Shibadas Biswal³, Nicolas Folschweiller²
¹Takeda Pharmaceuticals, Inc., Cambridge, MA, United States, ²Takeda Pharmaceuticals International AG, Zurich, Switzerland, ³Takeda Vaccines, Inc., Cambridge, MA, United States

LB-5145**Genomic, epidemiological and ecological characterisation of the large 2019 dengue virus outbreak in São José do Rio Preto, Brazil.**

Nilani Chandradeva¹, Darlan S. Candido¹, Karine Rocha Dutra², Flavia C. Salles³, Ana C. Terzian⁴, Victoria Cox¹, Charles Whittaker¹, Filipe RR Moreira¹, Beatriz C. Marques², Gerson L. Barbosa⁵, Rhys PD Inward⁶, Louis du Plessis⁷, Andreia FN Reis², Tatiana E. Colombo⁸, Alice F. Versiani², Ester C. Sabino³, Mauricio L. Nogueira², Ilaria Dorigatti¹, Nuno R. Faria¹
¹MRC Centre for Global Infectious Disease Analysis, Imperial College London, London, United Kingdom, ²Faculdade de Medicina de São José do Rio Preto - Famerp, São José do Rio Preto, Brazil, ³Instituto de Medicina Tropical, Faculdade de Medicina da Universidade de São Paulo, São Paulo, Brazil, ⁴René Rachou Institute/FIOCRUZ-Minas, Belo Horizonte, Brazil, ⁵State Department of Health, Endemic Control Superintendence, São Paulo, Brazil, ⁶Department of Biology, University of Oxford, Oxford, United Kingdom, ⁷Department of Biosystems Science and Engineering, ETH Zurich, Basel, Switzerland, ⁸Universidade Paulista, São Paulo, Brazil

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

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LB-5146**Epidemiologic and genomic characterization of an outbreak of Rift Valley fever among humans and dairy cattle in northern Tanzania, 2018**

Deng B. Madut¹, Matthew P. Rubach¹, Robert J. Rolfe¹, Manuela Carugati¹, John P. Bonnewell¹, Kathryn J. Allan², William A. de Glanville², Jo E.B. Halliday², Kate M. Thomas³, Grace D. Kinabo⁴, Alex R. Mremi⁴, Patrick T. Amsi⁴, Nathaniel H. Kalengo⁴, Furaha Lyamuya⁴, Bingileki Lwezuala⁵, Calvin Mosha⁵, Annette Marandu⁵, Michael J. Maze³, Cristina Costales¹, Ronald Mbwasia⁴, Kajiru G. Kilonzo⁴, Feng Zhu⁶, Wan Ni Chia⁶, Danielle Anderson⁶, Blandina T. Mmbaga⁴, Venance P. Maro⁴, Jie Liu⁷, Eric R. Houpt⁷, Lin-fa Wang⁶, Austin Leach⁸, Ketan Patel⁸, Sarah Cleaveland², John D. Klena⁸, John A. Crump³

¹Duke University, Durham, NC, United States, ²University of Glasgow, Glasgow, United Kingdom, ³University of Otago, Dunedin, New Zealand, ⁴Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, ⁵Mawenzi Regional Referral Hospital, Moshi, United Republic of Tanzania, ⁶Duke National University of Singapore Medical School, Singapore, Singapore, ⁷University of Virginia, Charlottesville, VA, United States, ⁸Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5147**Planning Considerations for the First Dengue Vaccine Implementation in the United States: A Puerto Rico Perspective**

Alexia E. Rodriguez¹, Joshua M. Wong², Claudia E. Colón-Burgos², Eunice Soto-Gómez², Jorge L. Muñoz-Jordan², Rafael Tosado-Acevedo², Coral Rosado-Santiago², Laura Adams², Gabriela Paz-Bailey², Marilyn Alicea-Pierantoni³, Janice Perez-Padilla², Jeffrey Ramos-Kuilan², Angel M. Rivera Garcia³, Lourdes Pedraza³, Iris R. Cardona Gerena³

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Centers for Disease Control and Prevention, San Juan, PR, United States, ³Puerto Rico Department of Health, San Juan, PR, United States

LB-5148**Acute Neurologic Syndromes associated with Chikungunya virus infections in Brazil**

Isadora C. de Siqueira¹, Mateus S. do Rosario¹, Lorena M. Cunha¹, Maria Paula S. Sampaio¹, Tarsis A. Faria², Adilson Galvão³, Pedro P. de Jesus⁴, Daniel S. Farias⁵, Murilo S. de Souza⁶, Gessica A. Vasconcelos¹, Bernardo G. Costa¹, Tiago Graf⁷

¹Fundação Oswaldo Cruz-Fiocruz, Salvador, Brazil, ²Hospital Geral Cleriston Andrade, Feira de Santana, Brazil, ³Hospital Regional de Irecê, Irecê, Brazil, ⁴Hospital Geral Roberto Santos, Salvador, Brazil, ⁵Hospital Geral Roberto Santos, Salvador, Brazil, ⁶Hospital Cardiopulmonar- Rede D'Or, Salvador, Brazil, ⁷Fundação Oswaldo Cruz-Fiocruz, Curitiba, Brazil

LB-5149**Diversity, Evolution and Phylogeography of DENV-I - IV viruses in Kenya.**

Sindiso Nyathi¹, Izabela Rezende¹, Katharine Walter¹, Francis Mutuku², Bryson Ndenga³, David Vu¹, Shannon Bennet⁴, Jason Andrews¹, Desiree LaBeaud¹

¹Stanford University, Stanford, CA, United States, ²Technical University of Mombasa, Mombasa, Kenya, ³Kenya Medical Research Institute, Kisumu, Kenya, ⁴California Academy of Sciences, San Francisco, CA, United States

LB-5150**Evaluation of the Immune Response to ACAM2000 in Previously Vaccinated Individuals**

Vanja Komlenovic¹, Caryl Iledan¹, Deborah Anderson¹, Amy Dahl¹, Tim Babinchak², **Christine Hall**¹
¹Emergent Biosolutions Inc., Winnipeg, MB, Canada, ²Emergent Biosolutions Inc., Gaithersburg, MD, United States

LB-5151**Longitudinal analysis of dengue-specific T cells elicited by heterologous prime boost vaccination followed by dengue virus-1 live virus human challenge**

Melody J. Morwitzer, Ying Yi Zheng, Iqra Nadeem, Jeffrey R. Currier, Heather Friberg
Walter Reed Army Institute of Research, Silver Spring, MD, United States

LB-5152**Early anti-viral IgM responses upon secondary dengue virus type 1 in Nicaraguan children**

Tulika Singh¹, Rohan Shinkre¹, Aaron Graber¹, Sandra Bos¹, Jose Victor Zambrana², Angel Balmaseda³, Eva Harris¹

¹Division of Infectious Diseases & Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ²Sustainable Sciences Institute, Managua, Nicaragua, ³Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

Poster Session A Presentations

Monday, October 31, 2022, 11 am - 12:45 pm

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LB-5153

Covid-19 Vaccine Hesitancy among People Living with HIV in Ukraine

Iryna Ben, Olena Zubach, Aleksandr Zinchuk
Danylo Halytsky Lviv National Medical University, Lviv, Ukraine

LB-5154

The burden of virologically confirmed dengue: A prospective cohort study in Cebu, Philippines

Michelle Ylade¹, Jeda Veronica Daag¹, Maria Vinna Crisostomo¹, Kristal An Agrupis¹, Ava Kristy Sy², Cameron Adams³, Ramesh Jadi³, Laura White³, Aravinda de Silva³, Anna Lena Lopez¹, Jacqueline Deen¹
¹Institute of Child Health and Human Development National Institutes of Health University of the Philippines Manila, Manila, Philippines, ²Department of Virology Research Institute for Tropical Medicine, Muntinlupa, Philippines, ³Department of Microbiology

and Immunology University of North Carolina School of Medicine, Chapel Hill, NC, United States

LB-5155

Comparing three predictive models for severe dengue: logistic regression, classification tree, and structural equation model

Hyelan Lee, **Sangshin Park**
University of Seoul, Seoul, Republic of Korea

LB-5156

NS1 protein as a risk factor for severe dengue: A systematic review of the literature and meta-analysis

Santiago Ospina-Sánchez¹, Cynthia Bernal², Mariana Hurtado¹, Natalia Gallego¹, Adriana Trujillo³, Jesse Waggoner⁴, Diana M. Rojas-Gallardo¹, Matthew H. Collins⁴, Eva Harris⁵, Alejandra Rojas⁶, **Jaime A. Cardona-Ospina**¹
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Poster Session 63

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

Late-Breakers in Basic Sciences

Basic Sciences - Arthropods/Entomology#LB-5164 through LB-5174

Basic Sciences - Malaria#LB-5175 through LB-5208

Basic Sciences - Viruses (all other viruses)#LB-5209 through LB-5224

Late-Breakers in Clinical and Applied Sciences

Clinical and Applied Sciences - Bacteriology and Diarrhea.....#LB-5225 through LB-5234

Clinical and Applied Sciences - Coronavirus.....#LB-5235 through LB-5248

Clinical and Applied Sciences - Global Health#LB-5249 through LB-5269

Clinical and Applied Sciences - Helminths - Nematodes.....#LB-5270 through LB-5273

Clinical and Applied Sciences - Integrated Control Measures for Neglected Tropical Diseases (NTDs).....#LB-5274 through LB-5284

Clinical and Applied Sciences - Malaria#LB-5185 through LB-5312

Clinical and Applied Sciences - Trematodes#LB-5313 through LB-5316

LB-5164

Effects of specific environmental cues in efforts to induce aestivation and measure nutritional reserves in *Anopheles Coluzzii* under laboratory conditions

Cedric Ndjiki Kouam, Benjamin Krajacich, Roy Faiman, Tovi Lehmann
National Institute of Health, Rockville, MD, United States

LB-5165

The Impact of windborne migration of insects on Agriculture and Public Health in West Africa.

RITA NARTEY FRIMPONG¹, Dao A², Afrane Y. A³, Mohammed A. R³, Faiman R¹, Yaro A. S², Owusu-Asenso CM³, Akosah-Bempong G³, Zong CMAP², Diallo M², Sanogo Z. L², Samake D², Krajacich B. J¹, Bamou R¹, Kouam C¹, Chapman J. W⁴, Reynolds D. R⁵, Tovi Lehmann¹

¹Laboratory of Malaria and Vector Research, NIAID, NIH, Rockville, MD, United States, ²Malaria Research and Training Center (MRTC)/Faculty of Medicine, Pharmacy and Odonto-stomatology, Bamako, Mali, ³Department of Medical Microbiology, College of Health Sciences, University of Ghana, Accra, Ghana, ⁴Centre for Ecology and Conservation, and Environment and Sustainability Inst., University of Exeter, Cornwall, United Kingdom, ⁵Natural Resources Institute, University of Greenwich and Rothamsted Research, Chatham, United Kingdom

LB-5166

Genetic heritability of WNV vector competence in *Culex tarsalis*

Gerard Terradas, Mario Novelo, Andrew J. Belville, Jason L. Rasgon
Penn State University, University Park, PA, United States

LB-5167

Breeding habitats, bionomics and phylogenetic analysis of *Aedes aegypti* in Kebridehar town, Somali Region of Ethiopia

Solomon Yared¹, Araya Gebressielasie², Amha Worku¹, Abas Mahammed¹, Isuru Gunarathna³, Elizabeth Waymire³, Meshesha Balkew⁴, Tamar E. Carter³

¹Jigjiga University, Jigjiga, Ethiopia, ²Addis Ababa University, Addis Ababa, Ethiopia, ³Baylor University, Waco, Texas, TX, United States, ⁴Abt Associates, PMI VectorLink, Addis Ababa, Ethiopia

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm
Convention Center - Hall 4A (4th Floor)

LB-5168

Heterogeneity of Anopheles coustani populations in Madagascar

Tsarasoa Malala ANDRIANINARIVOMANANA¹, Romain GIROD¹, Catherine BOURGOUIN², Catherine DAUGA³

¹Medical Entomology Unit, Institut Pasteur de Madagascar, Antananarivo, Madagascar, ²Université Paris Cité, UMR2000, Functional Genetics of Infectious Diseases, F-75015 Paris, France, ³Institut Pasteur, Université Paris Cité, Arboviruses and Insect Vectors, F-75015 Paris, France

LB-5169

Some like it hot: how urban microclimate across a tropical city impacts Aedes mosquito life history and vector competence

Eduardo Hernandez Acosta¹, Adam Hendy², Eloane Andrade³, Michaela Buenemann¹, Barbara Chaves³, Nikolaos Vasilakis², Kathryn A. Hanley¹

¹New Mexico State University, Las Cruces, NM, United States, ²University of Texas Medical Branch, Galveston, TX, United States, ³Fundação de Medicina Tropical Doutor Heitor Vieira Dourado, Manaus, Brazil

LB-5170

A plant-based adult diet for Aedes aegypti colony maintenance

Samuel B. Jameson, Dawn M. Wesson
Tulane University, New Orleans, LA, United States

LB-5171

Male age does not influence Wolbachia-induced CI in Aedes aegypti

Heather A. Flores, Etienne Casagrande Pacidonio, Miao Gan
Monash University, Clayton, Australia

LB-5172

Mosquito communities and West Nile virus detection in central Oklahoma

Emma Dilbeck, Vicent Rios, Raina Miller, Dennis Green, Caio Martinelle B. Franca
Southern Nazarene University, Bethany, OK, United States

LB-5173

Haemagogus mosquito species show feeding preferences to human and avian blood hosts

Renee Ali¹, Jayaraj Jayaraman¹, Azad Mohammed¹, Naresh Nandram², Lester D. James¹, Brent Daniel¹, David W. Severson³, Adesh Ramsubhag¹

¹University of the West Indies, St. Augustine, Trinidad and Tobago, ²Insect Vector Control Division, Ministry of Health, Port-of-Spain, Trinidad and Tobago, ³University of the Notre Dame, Notre Dame, IN, United States

LB-5174

Molecular characterization of Anopheline mosquitoes circulating in native communities of Condorcanqui, Amazonas in Peru

Marianella V. Pingo¹, Angelica Vigil-Correa¹, Luis M. Rojas², Lizandro Gonzales², Christian Gonzalez³, Rafael Tapia-Limonchi¹, **Stella M. Chenet¹**

¹IET, Universidad Nacional Toribio Rodriguez de Mendoza, Chachapoyas, Peru, ²Laboratorio Referencial, Dirección Regional de Salud de Amazonas, Chachapoyas, Peru, ³Instituto de Entomología, Universidad Metropolitana de Ciencias de la Educación, Santiago, Chile

LB-5175

Prevalence of non-falciparum malaria among symptomatic and asymptomatic Individuals in areas of different transmission intensities in Tanzania

Zachary R. Popkin-Hall¹, Misago D. Seth², Rashid A. Madebe², Rule Budodo², Catherine Bakari², David J. Giesbrecht³, Celine I. Mandara², Daniel Mbwambo⁴, Sijenuu Aaron⁴, Samwel Lazaro⁴, Jeffrey A. Bailey³, Jonathan J. Juliano¹, Deus S. Ishengoma²

¹University of North Carolina, Chapel Hill, NC, United States, ²National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ³Brown University, Providence, RI, United States, ⁴National Malaria Control Programme, Dodoma, United Republic of Tanzania

LB-5176

Interrogating Extracellular Vesicle Importance for Anopheles-Plasmodium Interactions

Michael Wells
Idaho College of Osteopathic Medicine, Meridian, ID, United States

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

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LB-5177

Epidemiological parameters of malaria infection for site preparation of antimalarial monoclonal antibody studies in Torodo, Mali

Safiatou N. Doumbo¹, Djelika Diarra¹, Aissata Ongoiba¹, Didier Doumtabe¹, Abdrahamane Traore¹, Peter Crompton², Boubacar Traore¹, Kassoum Kayentao¹

¹Malaria research and training center/ICER/Mali, Bamako, Mali, ²NIH LIG, Bethesda, USA, WA, United States

LB-5178

Contribution of community-level data to malaria surveillance: assessment of community health worker data from Cameroon and Kenya

Hellen Gatakaa¹, Steven Wambua², Elvis Oyugi³, Eric Diboulo¹, Bibian Robert⁴, Peter Macharia⁴, Agneta Mbithi¹, Yazoume Ye¹, Emelda Okiro⁴

¹U.S. President's Malaria Initiative Measure Malaria/ICF, Chapel Hill, NC, United States, ²University of Birmingham, Birmingham, United Kingdom, ³National Malaria Control Program, Nairobi, Kenya, ⁴KEMRI Wellcome Trust Research Programme, Nairobi, Kenya

LB-5179

The Role of Couple Communication and Social and Behavior Change Messaging on Bed net Use in Liberia

Joseph Millward¹, Lindsey Leslie¹, Liwenan Li², Samantha Tsang¹, Ben Kitson¹, Vivian Nyankun¹, Eric Gaye¹, Stella Babalola¹, Mamadou Otto Diallo³, Jessica Kafuko⁴, Nandita Kapadia-Kundu¹

¹Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, ²Johns Hopkins University Bloomberg School of Public Health Department of International Health, Baltimore, MD, United States, ³U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Monrovia, Liberia, ⁴U.S. President's Malaria Initiative, U.S. Agency for International Development (USAID), Monrovia, Liberia

LB-5180

Impact Assessment of Seasonal Malaria Chemoprevention in Kogi State Using Routine Health Management Information System (HMIS) Surveillance Data

Taiwo Ibinaiye¹, Olabisi Ogunmola¹, Emmanuel Salifu², Andrew Okwulu², Kenneth Maduka², Malaria Consortium¹, Adaeze Aidenagbon¹, Jesujuwonlo Fadipe¹, Sol Richardson³, Olusola Oresanya¹
¹Malaria Consortium, Abuja, Nigeria, ²Malaria Consortium, Lokoja, Nigeria, ³Malaria Consortium, London, United Kingdom

LB-5181

The WHO Malaria Nucleic Acid Amplification Techniques (NAAT) External Quality Assurance (EQA) scheme - 5 year retrospective and lessons learned

Jane Cunningham¹, **Rebecca M. Thomson**², Agatha Saez³, Jaya Shrivastava³, Peter L. Chiodin³

¹World Health Organization, Geneva, Switzerland, ²Independent Consultant, London, United Kingdom, ³UK Health Security Agency, London, United Kingdom

LB-5182

LLIN COVERAGE AND USE PRE AND POST PBO IN HIGH TRANSMISSION REGION, WESTERN KENYA

Judith N. Mangeni¹, Andrew Obala², Zena Lapp³, Erica E. Zeno³, Lucy Abel⁴, Tabitha J. Chepkwony⁴, Mark E. Amunga⁴, Steve Taylor³, Wendy P. O'Meara³

¹Moi University College of Health Sciences, Eldoret 30100, Kenya, ²Moi University College of Health Sciences, Eldoret, Kenya, ³Duke University, Durham, NC, United States, ⁴Academic Model Providing Access to Healthcare, Eldoret, Kenya

LB-5183

Genome-wide analysis of genetic polymorphisms in Plasmodium vivax between Duffy-positive and Duffy-negative Ethiopians

Anthony Ford¹, Kareen Pestana², Alexander Dellinger³, Beka Abagero², Delenasaw Yewhalaw⁴, Eugenia Lo⁵

¹University of North Carolina at Charlotte-Department of Bioinformatics and Genomics, Charlotte, NC, United States, ²University of North Carolina at Charlotte-Department of Biological Sciences, Charlotte, NC, United States, ³Gaston College, Dallas, NC, United States, ⁴Jimma University-Tropical Infectious Disease Research Center, Jimma, Ethiopia, ⁵University of North Carolina at Charlotte-Department of Biological Sciences and School of Data Science, Charlotte, NC, United States

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5184**Intervillage dispersal of *Anopheles gambiae* s.l in the Sahel reveals that distance covered is considerably larger than typically assumed**

Adama Dao¹, Benjamin J. Krajacich², Roy Faiman², Alpha S. Yaro¹, Moussa Diallo¹, Zana L. Sanogo¹, Djibril Samake¹, Josue Podiougou¹, Alassane Assitoun¹, Kadiatou Cisse¹, Mamadou Traore¹, Tovi Lehmann²
¹Malaria Research and Training Center (MRTC)/Faculty of Medicine, Pharmacy and Odonto- stomatology, Bamako, Mali, -Bamako, Mali, ²Laboratory of Malaria and Vector Research, NIAID, NIH. Rockville, MD, USA, Rockville, MD, United States

LB-5185**VAR2CSA mediated interaction between *Plasmodium falciparum*-infected erythrocytes and B cells**

Alice Tomlinson, Celia Dechavanne, Arnaud Chêne, Benoit Gamain
Institut national de la santé et de la recherche médicale/Université Paris Cité, PARIS, France

LB-5186**Evaluating the cross-reactive epitopes in VAR2CSA as a target of immunity in *P. vivax* and *P. falciparum* exposed populations**

Uwa Iyamu, Bernard Tornyigah, Daniel F. Vinals, Bart Hazes, Stephanie K. Yanow
University of Alberta, Edmonton, AB, Canada

LB-5187***Anopheles stephensi* is linked with a recent outbreak of malaria in Dire Dawa City, Ethiopia**

Tadele Emiru, Dejene Getachew, Hiwot Tekla, Melat Abdo, Sinknesh W. Behaksera, Lina Alemayehu, Wakweya Chali Gerba, Mikiyas Gebremichael Bulto, Tizita Tsegaye, Gutema Jebessa, Sheleme Chibsa, Peter Mumba, Samuel Girma, Jimée Hwang, Melissa Yoshimizu, Alice Sutcliffe, Hunduma Dinka, Endalamaw Gadisa, Chris Drakeley, Sarah Zohdy, Jon Eric Tongren, Teun Bousema, Fitsum Girma G. Tadesse
Armauer Hansen Research Institute, Addis Ababa, Ethiopia

LB-5188**Mitogenome sequencing and comparison of COI diversity of global *Anopheles stephensi***

Madison Follis, Joseph Spear, Isuru Gunarathna, Jeanne Samake, Tamar E. Carter
Baylor University, Waco, TX, United States

LB-5189**Temporal dynamics of recurrent malaria episodes in endemic settings of the Peruvian Amazon: the natural history of submicroscopic and asymptomatic *Plasmodium vivax* infection.**

Stefano S. Garcia Castillo¹, Ángel Rosas-Aguirre², Rodrigo M. Corder³, Joaquín Gómez¹, Niko Speybroeck², Alejandro Llanos-Cuentas⁴, Joseph Vinetz⁵, Anna Rosanas-Urgell⁶, Marcelo U. Ferreira⁷, Dionicia Gamboa⁴
¹Laboratorio de Malaria: Parásitos y Vectores, Universidad Peruana Cayetano Heredia, Lima, Peru, ²Research Institute of Health and Society (IRSS), Université catholique de Louvain, Brussels, Belgium, ³Department of Epidemiology and Biostatistics, University of California, Berkeley School of Public Health, Berkeley, CA, United States, ⁴Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, ⁵Section of Infectious Diseases, Department of Internal Medicine, Yale School of Medicine, New Haven, CT, United States, ⁶Institute of Tropical Medicine, Antwerpen, Belgium, ⁷University of São Paulo, São Paulo, Brazil

LB-5190**Biological Equivalence of In Vitro produced *Plasmodium falciparum* sporozoites for Practical Malaria research Development**

Kiara Hatzakis, Zach MacMillen, Alexis Grieser, Anil Ghosh, James Davie, Marion Avril
MalarVx, Inc, SEATTLE, WA, United States

LB-5191**Reaching the Unreached in Madagascar: Identification of High-Risk Populations in Elimination Districts to Improve Intervention Targeting**

Andriamamonjy Fanomezana¹, Sandy Ralisata², Martin Rafaliarisoa², Andrinirina Ramananjato², Andry Raoliarison², Jocelyn Razafindrakoto³, **Cara Smith Gueye**⁴, Jehan Ahmed⁴, Elisabeth Gebreegiabher⁴
¹National Malaria Control Programme, Ministry of Health, Antananarivo, Madagascar, ²U.S. President's Malaria Initiative Impact Malaria, Antananarivo, Madagascar, ³U.S. President's Malaria Initiative, USAID, Antananarivo, Madagascar, ⁴U.S. President's Malaria Initiative Impact Malaria, Washington, DC, United States

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5192

Age-dependent acquisition of PfEMP1-specific IgG afucosylation in children with natural exposure to malaria

Mary Lopez-Perez¹, Zakaria Seidu², Mads D. Larsen³, Helena Lamptey², Michael F. Ofori², Manfred Wuhrer⁴, Gestur Vidarsson³, **Lars Hviid**¹

¹University of Copenhagen, Copenhagen, Denmark, ²University of Ghana, Accra, Ghana, ³Sanquin, Amsterdam, Netherlands, ⁴Leiden University Medical Center, Leiden, Netherlands

LB-5193

Analysis of vector-parasite interaction genes for evidence of Anopheles-based selective pressure in Plasmodium falciparum in Africa

Isuru Gunarathna, Tamar E. Carter
Baylor University, Waco, TX, United States

LB-5194

Identification of highly potent transmission-blocking human monoclonal antibodies to Plasmodium falciparum Pfs230 in naturally exposed individuals

Danton Ivanochko¹, Amanda Fabra-García², Teun Bousema², Matthijs M. Jore², Jean-Philippe Julien¹

¹The Hospital for Sick Children Research Institute, Toronto, ON, Canada, ²Radboudumc, Nijmegen, Netherlands

LB-5195

Vaccination with a structure-based stabilized version of malarial antigen Pfs48/45 elicits ultra-potent transmission-blocking antibody responses

Brandon McLeod¹, Moustafa T. Mabrouk², Kazutoyo Miura³, Rashmi Ravichandran⁴, Sally Kephart⁴, Sophia Hailemariam¹, Thao P. Pham³, Anthony Semesi¹, Iga Kucharska¹, Prasun Kundu¹, Wei-Chiao Huang², Max Johnson⁴, Alyssa Blackstone⁴, Deleah Pettie⁴, Michael Murphy⁴, John C. Kraft⁴, Elizabeth M. Leaf⁴, Yang Jiao⁵, Marga van de Vegte-Bolmer⁶, Geert-Jan van Gemert⁶, Jordache Ramjith⁶, C. Richter King⁷, Randall S. MacGill⁷, Yimin Wu⁷, Kelly K. Lee⁴, Matthijs M. Jore⁶, Neil P. King⁴, Jonathan F. Lovell², Jean-Philippe Julien¹

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WA, United States, ⁵State University of New York, Buffalo, NY, Canada, ⁶Radboud University Medical Center, Nijmegen, Netherlands, ⁷PATH's Malaria Vaccine Initiative, Washington, DC, United States

LB-5196

Functional evidence that Plasmodium vivax mdr1 haplotypes confer multidrug resistance

Brendan Elsworth¹, Lucas E. Buyon¹, Aditya S. Paul¹, Jacob A. Tennesen¹, Louis R. Hollingsworth², Angela M. Early¹, Christof Grüning¹, Cristina K. Moreira¹, Daniel E. Neasey¹, Manoj T. Duraisingh¹

¹Harvard T. H. Chan School of Public Health, Boston, MA, United States, ²Harvard Medical School, Boston, MA, United States

LB-5197

Highly potent naturally acquired human monoclonal antibodies against Pfs48/45 block Plasmodium falciparum transmission to mosquitoes.

Amanda Fabra-García¹, **Sophia Hailemariam**², Roos M de Jong¹, Kirsten Janssen¹, Karina Teelen¹, Marga van de Vegte-Bolmer¹, Geert-Jan van Gemert¹, Danton Ivanochko², Anthony Semesi², Brandon McLeod², Martijn Vos³, Marloes de Bruijn³, Judith Bolscher³, Marta Szabat⁴, Stefanie Vogt⁴, Lucas Kraft⁴, Sherie Duncan⁴, Moses Kamya⁵, Margaret Feeney⁶, Prasanna Jagannathan⁷, Bryan Greenhouse⁶, Robert Sauerwein³, C. Richter King⁸, Randall MacGill⁸, Teun Bousema¹, Jean-Philippe Julien², Matthijs Jore¹

¹Radboud University Medical Center, Nijmegen, Netherlands, ²The Hospital for Sick Children Research Institute, Toronto, ON, Canada, ³TropIQ Health Sciences, Nijmegen, Netherlands, ⁴AbCellera Biologics Inc., Vancouver, BC, Canada, ⁵Infectious Disease Research Collaboration, Kampala, Uganda, ⁶University of California San Francisco, San Francisco, CA, United States, ⁷Stanford University, Stanford, CA, United States, ⁸PATH's Malaria Vaccine Initiative, Washington, DC, United States

LB-5198

Structure guided approach to AMA1-RON2L mRNA vaccine against P. falciparum

Sean Yanik¹, Bianca Loveless², Varsha Venkatesh¹, Elgin Akin¹, Mohamad-Gabriel Alameh³, Martin Boulanger², Drew Weissman³, Prakash Srinivasan¹

¹Johns Hopkins, Baltimore, MD, United States, ²University of Victoria, Victoria, BC, Canada, ³University of Pennsylvania, Philadelphia, PA, United States

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

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LB-5199

Performance of SNP molecular barcodes to determine genetic diversity and population structure of *Plasmodium falciparum* in Africa

Dionne C. Argyropoulos¹, Mun Hua Tan¹, Courage Adobor², Benedicta Mensah², Frédéric Labbé³, Kathryn E. Tiedje¹, **Anita Ghansah**², Karen P. Day¹

¹Department of Microbiology and Immunology, Bio21 Institute and Peter Doherty Institute, The University of Melbourne, Melbourne, Australia, ²Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Ghana, ³Department of Ecology and Evolution, The University of Chicago, Chicago, IL, United States

LB-5200

Malaria Elimination in Tribal Communities An Innovative Approach

Anju Viswan K¹, Roop Kumari², Pradeep Kumar Srivastava³

¹WHO Country Office India (EX), Bastar, India, ²WHO Country Office India, New Delhi, India, ³National Vector Borne Disease Control programme- Ex, Delhi, India

LB-5201

Challenges of under reporting in community level intervention: Experience from implementing Integrated Community Case Management of Malaria, Diarrhea & Pneumonia (iCCM) in Niger state, Nigeria

Chidinma Okolo¹, Frank Oronsaye¹, Temitope Adeyaju¹, Jane Oyilo², Ebenezer Ikechukwu², Nickson Hyeladendu¹, Ipinmoye Temitope¹, Chukwu okoronkwo³, Nnenna Ogbulafor³, Diwe Ekweremadu¹, Sonachi Ezeiru¹

¹Catholic relief services, Abuja, Nigeria, ²Malaria Consortium, Abuja, Nigeria, ³National Malaria Elimination Programme, Abuja, Nigeria

LB-5202

Uptake of Sulfadoxine-pyremethamine-based intermittent preventive treatment in pregnancy (IPTp-SP). A retrospective observational study in two rural districts of Mozambique

Mulamuli Mpofu¹, Gilberto Joaquim Muai¹, Salimone Nhancume¹, Abuchahama Saifodine², Baltazar Candrinho³, Bazghina-werq Semo⁴

¹Integrated Malaria Project, Chemonics International, Maputo, Mozambique, ²U.S. President's Malaria

Initiative, USAID, Maputo, Mozambique, ³National Malaria Control Programme, Ministry of Health, Maputo, Mozambique, ⁴Chemonics International, Washington, DC, United States

LB-5203

Assessing availability, prices, and market share of quality-assured ACTs and RDTs in the private sector in Kenya, Nigeria, and Uganda

Meley Woldeghebriel¹, Natalie Priestly¹, Ezinne Aso², Jimmy Opigo³, Perpetual Uhomoibhi⁴, Juliet Nakiganda¹, Patricia Njiri⁵, Chizoba Fashanu², Abby Ward⁶, Aaron Woolsey⁶, Theodoor Visser⁶
¹CHAI, Kampala, Uganda, ²CHAI, Lagos, Nigeria, ³National Malaria Control Division, Kampala, Uganda, ⁴National Malaria Elimination Program, Abuja, Nigeria, ⁵CHAI, Nairobi, Kenya, ⁶CHAI, Boston, MA, United States

LB-5204

Contribution of CD8T cells to poor reticulocyte response during Severe Malarial Anemia in *P. coatneyi*-infected Rhesus macaques.

Isha Pandey, Amber I. Raja, Sachy Orr Gonzalez, Lynn E. Lambert, Tarik Ouahes, Brandi Butler, Brandi Butler, Ian Moore, Marvin L. Thomas III, Patrick E. Duffy
National Institute of Health, Bethesda, MD, United States

LB-5205

Towards the development of an animal model for *Plasmodium vivax* vaccine challenge

Laura L. Tapia, Melina Florez, Julio Ventocilla, Liz Espada, Carmen Flores-Mendoza, Karin Escobedo-Vargas, Victor Lopez-Sifuentes, Victor Zorrilla, Diana Cedamano, Fredy Villena, Gissella Vasquez, Hugo Valdivia, Brandon K. Wilder
US Naval Medical Research Unit No 6, Lima, Peru

LB-5206

Malaria Elimination Strategic Planning Following High Burden High Impact Approach

Roop Kumari¹, Sagya Singh², Pradeep Kumar Srivastava³
¹WHO Country Office India, Delhi, India, ²NVBDCP, Jharkhand, India, ³NVBDCP-Ex, Delhi, India

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

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LB-5207

Plasmodium falciparum drug-gene interaction network defined by chemogenomic profiling of a mutant library

Murrel F. Saldanha¹, Camilla V. Pires¹, Caroline Simmons¹, Justin Gibbons¹, Jenna Oberstaller¹, Chengqi Wang¹, Min Zhang¹, Thomas D. Otto², Julian C. Rayner³, John H. Adams¹

¹Center for Global Health and Infectious Diseases Research, USF Genomics Program, College of Public Health, University of South Florida, Tampa, FL, United States, ²Institute of Infection, Immunity and Inflammation, MVLS, University of Glasgow, Glasgow, United Kingdom, ³Cambridge Institute for Medical Research, University of Cambridge., Cambridge, United Kingdom

LB-5208

Application of mid-infrared spectroscopy and machine learning for predicting vertebrate blood meals in wild malaria vectors

Emmanuel P. Mwangi¹, Ezekiel Makala¹, Said Abbas¹, Godian Selemani¹, Mario González-Jiménez², Maggy T. Sikulu-Lord³, Prashanth Selvaraj⁴, Klaas Wynne², Francesco Baldini², Simon A. Babayan², Fredros O. Okumu¹

¹Ifakara Health Institute, Morogoro, United Republic of Tanzania, ²University of Glasgow, Glasgow, United Kingdom, ³The University of Queensland, Herston, Australia, ⁴Institute for Disease Modelling, Bellevue, WA, United States

LB-5209

Low replication and absence of transmission of vYF next generation Yellow Fever Vaccine candidate in mosquitoes

MANUEL VANGELISTI¹, Nathalie Mantel¹, Rachel Bellone², Chloe Bohers², Laurence Mousson², Anna-Bella Failloux²

¹sanofi, Lyon, France, ²Institut Pasteur, Paris, France

LB-5210

Evaluation of the Midnight protocol for SARS-CoV-2 Whole Genome Sequencing using MinION : A Preliminary study

Khajohn Joonlasak¹, Sonam Wangchuk², Binay Thapa², Darunee Buddhari¹, Kanyarat Phutthasophit¹, Piyawan Chinnawirotpisan¹, Wudtichai Manasatienkij¹, Thomas S. Cotrone¹, Stefan Fernandez¹, Anthony R. Jones¹, Chonticha Klungthong¹

¹USAMD - AFRIMS, Bangkok, Thailand, ²Royal Centre for Disease Control, Serbithang, Thimphu, Bhutan

LB-5211

Genetic characterization of dengue virus type 3 from the 2019 dengue outbreak in Bhutan

Binay Thapa¹, Sonam Gyeltshen¹, Sangay Zangmo¹, Sonam Wangchuk¹, Piyawan Chinnawirotpisan², Wudtichai Manasatienkij², Thomas S. Cotrone², Anthony R. Jones², Stefan Fernandez², **Chonticha Klungthong**²

¹Bhutan-Royal Centre for Disease Control, Thimphu, Bhutan, ²USAMD-Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand

LB-5212

Everglades virus evolution: Genome sequence analysis of the envelope protein reveals recent mutation and divergence in south Florida wetlands

Monica Valente¹, **Carla N. Mavian**², Dhani Prakoso³, Amy Y. Vittor², Erik M. Blosser⁴, Nabil Abid⁵, Ruiyu Pu², Sarah E. Beachboard², Maureen T. Long², Nathan D. Burkett-Cadena²

¹Columbus Central Veterinary Hospital, Columbus, NJ, United States, ²University of Florida, Gainesville, FL, United States, ³University of Tennessee, Knoxville, TN, United States, ⁴Sutter-Yuba Mosquito and Vector Control District, Yuba City, CA, United States, ⁵University Manouba, Manouba, Tunisia

LB-5213

Imminent threats to polio eradication: how much will it cost to prevent and respond to importations of wild poliovirus?

Megan Auzenbergs, Kaja Abbas, Kathleen O'Reilly
London School of Hygiene and Tropical Medicine,
London, United Kingdom

LB-5214

Antiviral effect of atovaquone against chikungunya virus in Aedes aegypti mosquitoes by tarsal exposure

Leen Delang, Lanjiao Wang, Sanon Aboubakar, Rana Abdelnabi
KU Leuven, Leuven, Belgium

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm
Convention Center - Hall 4A (4th Floor)

LB-5215

Defining mayaro virus pathogenesis and immunity in a rhesus macaque infection model

Whitney C. Weber, Craig N. Krekylwich, Michael C. Denton, Nicole N. Haese, Magdalene M. Streblov, Patricia P. Smith, Miranda B. Fischer, Aaron M. Barber-Axthelm, Kim Chun, Caralyn S. Labriola, Michael K. Axthelm, Jeremy V. Smedley, Daniel N. Streblov
Oregon Health and Science University, Portland, OR, United States

LB-5216

The Utility of a Bayesian Predictive Model Approximation to Forecast Neuro-Invasive West Nile Virus in the United States and Territories, 2022

Maggie S J McCarter

The University of South Carolina, Columbia, SC, United States

LB-5217

Potential of a neotropical monkey species (Saimiri boliviensis) to transmit Zika virus: insights from a within-host mathematical model

Hélène Cecilia¹, Benjamin M. Althouse¹, Nikos Vasilakis², Kathryn A. Hanley¹

¹New Mexico State University, Las Cruces, NM, United States, ²University of Texas Medical Branch, Galveston, TX, United States

LB-5218

Evaluation of Commercial Anti-Dengue Virus IgG Tests to Support Dengue Vaccine Implementation

Freddy Medina¹, Frances Vila¹, Laura E. Adams¹, Jaime Cardona¹, Jessica Carrion¹, Elaine W. Lamirande², Luz N. Acosta¹, Carlos M. De León-Rodríguez¹, Manuela Beltran¹, Demian Grau¹, Vanessa Rivera-Amil³, Angel Balmaseda⁴, Eva Harris⁵, Stephen H. Waterman¹, Gabriela Paz-Bailey¹, Stephen Whitehead¹, Jorge Muñoz-Jordán¹

¹Centers for Disease Control and Prevention, San Juan, PR, United States, ²National Institutes of Health (NIH), Bethesda, MD, United States, ³Ponce Health Sciences University, Ponce, PR, United States, ⁴Sustainable Sciences Institute, Managua, Nicaragua, ⁵University of California, Berkeley, Berkeley, CA, United States

LB-5219

Exploring the potential range of Cache Valley Virus across North America using host, vector, isolates and sero-positive samples.

John Anthony Muller, Krisangel Lopez, Luis E. Escobar, Albert J. Auguste
Virginia polytechnic institute and state university, Blacksburg, VA, United States

LB-5220

Modelling the impact of JNJ-1802, a first-in-class NS4B targeting dengue antiviral, on the dynamics of DENV-2 in vitro

Clare McCormack¹, Olivia Goethals², Nele Goeyvaerts³, Xavier Woot de Trixhe³, Neil M. Ferguson¹, Oliver Ackaert³, Ilaria Dorigatti¹
¹MRC Centre for Global Infectious Disease Analysis, Imperial College London, London, United Kingdom, ²Janssen Global Public Health, Janssen Pharmaceutica NV, Beerse, Belgium, ³Janssen Research & Development, Janssen Pharmaceutica NV, Beerse, Belgium

LB-5221

Modelling the impact of JNJ-1802, a first-in-class NS4B targeting dengue antiviral, on the dynamics of DENV-2 infection in non-human primate and murine models

Clare McCormack¹, Olivia Goethals², Nele Goeyvaerts³, Xavier Woot de Trixhe³, Babs Verstrepn⁴, Ernst Verschoor⁴, Suzanne Kaptein⁵, Johan Neyts⁵, Marnix Van Loock², Neil M. Ferguson¹, Oliver Ackaert³, Ilaria Dorigatti¹
¹MRC Centre for Global Infectious Disease Analysis, Imperial College London, London, United Kingdom, ²Janssen Global Public Health, Janssen Pharmaceutica NV, Beerse, Belgium, ³Janssen Research & Development, Janssen Pharmaceutica NV, Beerse, Belgium, ⁴Department of Virology, Biomedical Primate Research Centre, Rijswijk, Netherlands, ⁵Laboratory of Virology and Chemotherapy, Rega Institute for Medical Research, KU Leuven, Leuven, Belgium

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5222**Machine-learning based Niche Modeling for Identification of Mayaro Virus Risk and Climatic Correlates in the Americas**

Michael Celone¹, Barbara Han², Sean Beeman¹, Alex Potter³, David Pecor³, Bernard Okech¹, Simon Pollett⁴
¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Cary Institute of Ecosystem Studies, Millbrook, NY, United States, ³One Health Branch, Walter Reed Army Institute of Research, Silver Spring, MD, United States, ⁴Infectious Disease Clinical Research Program, Department of Preventive Medicine and Biostatistics, Uniformed Services University of the Health Sciences, Bethesda, MD, United States

LB-5223**Timely detection of an outbreak of Influenza during the midst of COVID-19 in Ghana**

Ivy Asantewaa Asante¹, Yaw Awuku-Larbi¹, Stephen Ofori Nyarko¹, Gifty Mawuli Sarpong¹, Esinam Amenuvor¹, Richard A. Obeng¹, Linda Boatemaa¹, Lorreta Kwasa¹, Samuel Ago¹, Vanessa L. Magnusen¹, Jennifer Wutsika¹, Juliet Wordui¹, Roberta Tackie¹, Isabella Asamoah¹, William Asiedu², Daniel L. Mingle², Edward Owusu Nyarko², Obed B. Ofori³, Dennis O. Laryea³, Franklin Asiedu-Bekoe⁴, Patrick Kuma-Aboagye⁴, Anne Fox⁵, Naiki Attram⁵, Shirley Nimo-Paintsil⁵, William K. Ampofo⁶, Sanders Terre⁶
¹Noguchi Memorial Institute for Medical Research, Lg Accra, Ghana, ²37 Military Hospital, Ghana Armed Forces, Accra, Ghana, ³Disease Surveillance Department, Ghana Health Service, Accra, Ghana, ⁴Public Health Division, Ghana Health Service, Accra, Ghana, ⁵US Naval Medical Research Unit #3, Accra, Ghana, ⁶Noguchi Memorial Institute for Medical Research, Accra, Ghana

LB-5224**Genetic characterization and vector competence of a regional variant of Brazoran virus from Florida**

Philip M. Armstrong, John F. Anderson, Michael J. Misencik, Doug E. Brackney
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

LB-5225**Serological response using ELISA Anti Vi IgG after single dose of Typhoid Conjugate Vaccine****against Salmonella Typhi among children in Hyderabad, Pakistan.**

Sonia Qureshi¹, Farah Naz Qamar¹, Zoya Haq², Tahir Yousafzai¹, Najeeha Iqbal¹, Aneeta Hotwani¹, Najeeb Rahman¹

¹Aga Khan University Hospital, Karachi, Pakistan, ²Liaquat Medical College, Karachi, Pakistan

LB-5226**The Characteristics of Bacteremia among Patients with Acute Febrile Illness Requiring Hospitalization in Indonesia**

Herman Kosasih¹, Pratiwi Soedarmono², Aly Diana¹, Patricia Tauran³, Dewi Lokida⁴, Abu Tholib Aman⁵, Bacht Alisjahbana⁶, Dona Arlinda⁷, Emiliana Tjitra⁷, Ketut Tuti Parwati Merati⁸, Mansyur Arif⁹, Muhammad Hussein Gasem⁹, Nugroho Harry Susanto¹, Nurhayati Lukman¹, Retna Mustika Indah¹, Usman Hadi¹⁰, Vivi Lisdawati¹¹, Karine G Fouth Tchou¹², Aaron Neal¹³, Muhammad Karyana⁷

¹INA-RESPOND, Jakarta, Indonesia, ²Faculty of Medicine, Universitas Indonesia/ Dr. Cipto Mangunkusumo Hospital, Jakarta, Indonesia, ³Faculty of Medicine, Universitas Hasanuddin/ Dr. Wahidin Sudirohusodo Hospital, Makassar, Indonesia, ⁴Tangerang District Hospital, Tangerang, Indonesia, ⁵Faculty of Medicine, Public Health, and Nursing, Universitas Gadjah Mada/ Dr. Sardjito Hospital, Yogyakarta, Indonesia, ⁶Department of Internal Medicine, Faculty of Medicine, Universitas Padjadjaran/ Dr Hasan Sadikin Hospital, Bandung, Indonesia, ⁷National Institute of Health Research and Development (NIHRD), Ministry of Health Republic of Indonesia, Jakarta, Indonesia, ⁸Faculty of Medicine, Udayana University, Sanglah General Hospital, Denpasar, Bali, Indonesia, ⁹Faculty of Medicine, Diponegoro University/ Dr. Kariadi Hospital, Semarang, Indonesia, ¹⁰Faculty of Medicine, Universitas Airlangga/ Dr. Soetomo Hospital, Surabaya, Indonesia, ¹¹Sulianti Saroso Infectious Disease Hospital, Jakarta, Indonesia, ¹²National Institute of Allergy and Infectious Disease (NIAID), National Institutes of Health, Bethesda, MD, United States, ¹³13 National Institute of Allergy and Infectious Disease (NIAID), National Institutes of Health, Bethesda, MD, United States

LB-5227**Improved genomic characterization of clinical bacterial isolates of unknown identification in Florida using hybrid assemblies from short- and long-read sequencing platforms**

Tassy Joseph-Saincome Bazile, Maxwell Hogshead, Jason Blanton, Sarah Schmedes
Florida Bureau of Public Health Laboratories, Jacksonville, FL, United States

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5228

Prevalence of ocular Chlamydia trachomatis infection in Amhara region, Ethiopia after 8 years of trachoma control interventions

Scott D. Nash¹, Ambahun Chernet², Paul Weiss³, Andrew W. Nute¹, Mulat Zerihun², Eshetu Sata², Demelash Gessese², Kimberly A. Jensen¹, Zebene Ayele², Berhanu Melak², Taye Zeru⁴, Abdulkarim Mengistu⁵, Adisu Abebe⁵, Fikre Seife⁶, Zerihun Tadesse², E. Kelly Callahan¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³Emory University, Atlanta, GA, United States, ⁴Amhara Public Health Institute, Bahir Dar, Ethiopia, ⁵Amhara Regional Health Bureau, Bahir Dar, Ethiopia, ⁶Ministry of Health, Addis Ababa, Ethiopia

LB-5229

Community awareness of an upcoming enhanced mass drug administration for trachoma following mobilization efforts: The Enhancing the A in SAFE (ETAS) study, Republic of South Sudan

Phong Le¹, Lochebe Boniface², Andrew R. Deathe¹, Stephen Ohidor², Andrew W. Nute¹, Cathy Zhuang¹, Patrick Odong², Stella Abuba², James Niquette², E. Kelly Callahan¹, Samuel Makoy³, Yak Yak Bol³, Scott D. Nash¹, Angelia M. Sanders¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Juba, South Sudan, ³Ministry of Health, Juba, South Sudan

LB-5230

Baseline trachoma results from the Enhancing the A in SAFE (ETAS) study: a mass drug administration cost and feasibility study, Republic of South Sudan

Andrew R. Deathe¹, Stephen Ohidor², Angelia M. Sanders¹, Samuel Makoy³, Yak Yak Bol³, Andrew W. Nute¹, Phong Le¹, Lochebe Boniface², Stella Abuba², Patrick Odong², Patrick Lokito², Wilson Sebit³, James Niquette², E. Kelly Callahan¹, **Scott D. Nash**¹

¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Juba, South Sudan, ³Ministry of Health, Juba, South Sudan

LB-5231

Molecular Diagnostic Testing to Identify and Characterize Invasive Bartonella spp Infections

David W. McCormick¹, Sara L. Rassouljian-Barrett², Daniel R. Hoogestraat², Dhruva SenGupta², Elizabeth A. Dietrich¹, Brad T. Cookson², Grace E. Marx¹, **Joshua A. Lieberman**²

¹Centers for Disease Control and Prevention, Fort Collins, CO, United States, ²University of Washington, School of Medicine, Seattle, WA, United States

LB-5232

Leveraging data from a longitudinal birth cohort to assign etiology to diarrheal specimens among children

Maria Garcia Quesada¹, James A. Platts-Mills², Jie Liu³, Eric R. Houpt², Elizabeth T. Rogawski McQuade¹
¹Emory Rollins School of Public Health, Atlanta, GA, United States, ²University of Virginia School of Medicine, Charlottesville, VA, United States, ³Qingdao University, Qingdao, China

LB-5233

Vibrio cholerae Rapid Diagnostic Test performance analyses influenced by sample storage conditions at cholera treatment centres in the Democratic Republic of the Congo

Chloe F. Hutchins¹, Hanmeng Xu², Patrick Musole Bugeme³, Tavia Bodisa⁴, Junior Bulabula-Penge⁴, Amanda Debes³, Juan Dente Hulse³, François Edidi-Atani⁴, Fabrice Mambu-Mbika⁴, Baron Kinesha⁵, Faida Kitoga⁴, Espoir Bwenge Malembaka³, Amar Mohamed³, Daniel Mukadi⁴, Esperance Tsiwed⁴, Hugo Kavunga-Membo⁴, Placide Okitayemba Welo⁶, Jackie Knee¹, Andrew Azman³

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Johns Hopkins University, USA, MD, United States, ³Johns Hopkins University, Baltimore, MD, United States, ⁴Institute National Research Biomedical, Goma, Democratic Republic of the Congo, ⁵Johns Hopkins University, Baltimore, Democratic Republic of the Congo, ⁶Programme National d'Elimination du Choléra et de lutte contre les autres Maladies Diarrhéiques, Kinshasa, Democratic Republic of the Congo

LB-5234

Estimating the seroincidence of Vibrio cholerae infection using longitudinal data in Chittagong, Bangladesh

Sonia T. Hegde¹, Taufiqur Rahman Bhuiyan², Taufiqul Islam², Juan Dent Hulse¹, Zahid Hasan Khan², Ishtiakul Islam Khan², Shakeel Ahmed³, Md Mamunur Rashid³, Rumana Rashid³, Emily S. Gurley¹, Ashrafur Islam Khan², Firdausi Qadr², Andrew S. Azman¹

¹Johns Hopkins University, Baltimore, MD, United States, ²icddr, Dhaka, Bangladesh, ³Bangladesh Institute of Tropical and Infectious Diseases, Chattogram, Bangladesh

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5235

Performance Evaluation of Five Rapid At-Home COVID-19 Antigen Tests against the Omicron Variant

Victor A. Sugiharto¹, Stephanie K. Gatrell², Hua-Wei Chen¹, Gabrielle R. Blazek¹, Amanda M. Cherry², Megan Schilling³

¹Henry M Jackson Foundation, Bethesda, MD, United States, ²Leidos, Reston, VA, United States, ³Naval Medical Research Center, Silver Spring, MD, United States

LB-5236

Clinical Behavior and Outcomes of Herpes Zoster infection with SARS-CoV-2 infection. A Systematic Review

Bilal Ahmad¹, Fateen Ata², Pawan Kumar Thada³, Muhammad Ali³, Mohammad Nasser Affas², Jenish Bhandari⁴, Sarosh Sarwar⁵, Hassan Choudry⁶
¹QEHB - University Hospital of Birmingham-NHS trust, Birmingham, United Kingdom, ²Hamad Medical Corporation, Doha, Qatar, ³Faisalabad Medical University, Faisalabad, Pakistan, ⁴SUNY Upstate Medical University, Syracuse, NY, United States, ⁵Fazaia Medical College, Islamabad, Pakistan, ⁶University hospital of Leicester, Leicester, United Kingdom

LB-5237

Developmental outcomes in children exposed to SARS-Cov-2 in utero from a Brazilian cohort study.

Carolina Santos¹, Manoella Alves², Gentil Fonseca Filho³, Artemis Paula⁴, Erianna Macedo⁵, Monise Pontes⁵, Sarah Lima⁵, Fernanda Varela⁵, Andrezza Viana⁵, Aline Silva⁵, Erika Silva⁵, Lília D'Souza-Li¹
¹University of Campinas (UNICAMP), Campinas, SP, Brazil, ²Federal University of Rio Grande do Norte, Natal, RN, Brazil, ³Federal University of Rio Grande do Norte, Santa Cruz, RN, Brazil, ⁴Santos Dumont Institute, Macaíba, RN, Brazil, ⁵Santos Dumont Institute, Macaíba, RN, Brazil

LB-5238

Development and Field Testing of a Host Response Point-of-Care Assay for Triage of COVID-19 Patients

Claire Wilson¹, Bhavya Vashi¹, Melissa Gregory¹, Paul Ngobi¹, Willy Kayondo¹, Proscovia Sekiziyivu¹, Jason Yau², Lauren Wolfe², Chris Myatt², Josh Chenoweth¹, Danielle Clark¹

¹HJF, Bethesda, MD, United States, ²Lightdeck Diagnostics, Boulder, CO, United States

LB-5239

Remote Monitoring of SARS-CoV-2 Infection Using Self-Collected Capillary Blood Biomarkers, Viral Load, and Symptom Severity Scores

Bhavya Vashi, Claire S. Wilson, Joost Brandsma, Melissa K. Gregory, Deborah A. Striegel, Subramaniam Krishnan, Kristen Petrone, Paul W. Blair, Josh G. Chenoweth, Danielle V. Clark

The Austere Environments Consortium for Enhanced Sepsis Outcomes (ACESO), The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Bethesda, MD, United States

LB-5240

SARS-CoV-2 seroprevalence & pregnancy outcomes in Ouelessebouyou, Mali.

Oumar Attaher¹, John Woodford², Mamoudou Samassekou¹, Amatigue Zeguime¹, M'Bouye Doucoure¹, Justin Dortichamou², Jennifer Kwan², Irfan Zaidi², Djibrilla Issiaka¹, Moussa Traore¹, Sidi Mohamed Niambele¹, Halimatou Diawara¹, Gaoussou Santara¹, Ibrahim Soumbounou¹, Oumar Dicko¹, Almahamoudou Mahamar¹, Dominic Esposito³, Kaityln Sadtler⁴, Issaka Sagara¹, Alassane Dicko¹, Patrick Duffy²

¹Malaria Research & Training Center, Faculty of Medicine, Pharmacy and Dentistry, University of Sciences Techniques and Technologies of Bamako, Bamako, Mali, ²Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States, ³Frederick National Laboratory for Cancer Research, National Institutes of Health Frederick, Rockville, MD, United States, ⁴National Institute of Biomedical Imaging and Bioengineering, National Institutes of Health, Bethesda, MD, United States

LB-5241

Impact of Behavior and Public Health Measures on Social Contact Patterns during the COVID-19 Pandemic in Japan

Tomoka Nakamura¹, Koya Ariyoshi², Motoi Suzuki³, Kathleen M. O'Reilly¹

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Nagasaki University School of Tropical Medicine and Global Health, Nagasaki, Japan, ³National Institute of Infectious Diseases, Tokyo, Japan

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5242**Environmental surveillance for SARS-CoV-2 in Karachi_ Correlating sewage SARS-CoV-2 RNA concentration and reported incidence of COVID-19 from a large urban district**

Nadia Ansari¹, Mohammad I. Nisar¹, Fyezah Jehan¹, Saad Omer², Amyn A. Malik², Furqan Kabir¹, Farah Khalid¹, Joshua L. Warren², Abdul M. Kazi¹, Inci Yildirim², Usma Mehmood¹, Windy Tanner², Aamer Ikram³, Muhammad M. Alam⁴, Hussain Kalimuddin¹
¹The Aga Khan University, Karachi, Pakistan, ²Yale Institute for Global Health, Yale University, New Haven, CT, United States, ³National Institute of Health, Islamabad, Pakistan, ⁴World Health Organization, Islamabad, Pakistan

LB-5243**The RICOVA longitudinal cohort study: understanding immunity to COVID-19 in highly exposed urban populations in Quito, Ecuador**

Shazia Ruybal-Pesántez¹, Belén Prado-Vivar², Miguel Ochoa³, Stephanie Santander², Paola Troya², Carolina Merlo⁴, Emily Eriksson¹, Ivo Mueller¹, Augusto Maldonado², Paúl Cárdenas², Marco Fornasini⁴, Manuel Baldeon⁴
¹Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, ²Universidad San Francisco de Quito, Quito, Ecuador, ³Hospital IESS - Sur, Quito, Ecuador, ⁴Universidad Internacional del Ecuador, Quito, Ecuador

LB-5244**Ethnographic study of how government's approach to COVID-19 management influenced community trust and acceptance of preventive measures and vaccination in Ghana**

Matilda Aberese-Ako¹, Mustapha Immurana¹, Maxwell Ayindenaba Dalaba¹, Fidelis E.Y. Anumu¹, Anthony Oforu², Margaret Gyapong¹
¹University of Health and Allied Sciences, Ho, Ghana, ²Ghana Health Service, Accra, Ghana

LB-5245**Adverse impact of long COVID on the well-being of participants from the Sentinel Enhanced Dengue Surveillance System (SEDSS), Puerto Rico - March 2020-January 2022**

Robert Rodríguez-González¹, Verónica M. Frasqueri-Quintana¹, Hannah R. Volkman², Rachel Rodríguez-Santiago¹, Lorreine Rivera-Ortiz¹, Yaidelice Van Daalen-Morales¹, Roselani Franceschi-Pagan¹, Nakar Vargas-Gómez¹, Roberta M. Lugo-Robles², Yashira Maldonado-García², Janice Pérez-Padilla², Gabriela Paz-Bailey², Laura E. Adams², Vanessa Rivera-Amill¹
¹Ponce Health Sciences University/Ponce Research Institute, Ponce, PR, United States, ²Division of Vector Borne Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States

LB-5246**Two years of Genomic Surveillance of SARS-CoV-2 in Ecuador**

Sully Marquez¹, Belen Prado¹, Mateo Carvajal¹, Erika Muñoz¹, Rommel Guevara¹, Juan Jose guadalupe¹, Monica Becerra¹, Bernardo Gutierrez¹, Shazia Ruybal², Gabriel Trueba¹, Michelle Grunauer¹, Patricio Rojas-Silva¹, Veronica Barragan¹, **Paúl Cárdenas¹**
¹USFQ, Quito, Ecuador, ²WEHI, Melbourne, Australia

LB-5247**Post-acute sequelae of COVID-19 (PASC) in outpatients from a southern laboratory in Puerto Rico**

Rachel Marie Rodriguez-Santiago, Melissa Marzan-Rodriguez, Camille Lugo, Vanessa Rivera-Amill
Ponce Research Institute, Ponce, PR, United States

LB-5248**Interrelationship Between SARS-CoV-2 and Common Cold Coronaviruses Spike and Nucleocapsid Proteins Antibody Response**

Vivek R. Nerurkar¹, Joanne W. Yeung¹, Lauren C. Ching¹, Alanna Tseng¹, Kenji O. Obadia¹, Olivia A. Achonduh-Atijegbe¹, Obase N. Bekindaka¹, Livo F. Esemu², Calixt D. Mbakop³, Diane W. Taylor¹, Rose GF Leke⁴
¹University of Hawaii at Manoa, Honolulu, HI, United States, ²Biotechnology Center, University of Yaoundé I, Yaoundé, Cameroon, ³National Medical Research Institute, Yaoundé, Cameroon, ⁴Biotechnology Center, University of Yaoundé I, Yaoundé I, Cameroon

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm
Convention Center - Hall 4A (4th Floor)

LB-5249

Real-time Next Generation Sequencing Supporting the 2022 14th Ebola Virus Disease Outbreak in Mbandaka, Democratic Republic of Congo

Jean Claude C. Makanagara¹, Pauline Musuamba¹, Gerry Makaya², Francis Mbuyi², Adrienne A. Amuri¹, André Citenga¹, Virgil Tsoni¹, Eddy L. Kinganda¹, Francisca Muyembe¹, Raphael Lumembe¹, Gabriel Kabamba¹, Trésor Kabeya¹, Emmanuel Lokilo¹, Gradi Luakanda¹, François Edidi¹, Nohelia Navarrete², John Klana³, Joel Montgomery³, Catherine Pratt⁴, Jacques Likofata⁵, Celestin Mwanzembe⁶, Placide Mbala K.¹, Steve A. Mundeke¹, Jean Jacques Muyembe¹
¹National Institute for Biomedical Research, Kinshasa, Democratic Republic of the Congo, ²Vysnova Partners, Landover, MD, United States, ³Centers for Diseases Control and Prevention, Atlanta, GA, United States, ⁴University of Nebraska Medical College, Omaha, NE, United States, ⁵Laboratoire Provincial de Santé Publique de Mbandaka, Mbandaka, Democratic Republic of the Congo, ⁶Incident Manager of Ebola Virus disease outbreak response, Ministry of Public Health, Hygiene and Prevention, Kinshasa, Democratic Republic of the Congo

LB-5250

Healthcare utilization for febrile syndromes in northern Tanzania: a randomized multistage population-based cluster survey

Deng B. Madut¹, Matthew P. Rubach¹, Julian T. Hertz¹, Gwamaka William², Timothy A. Peter², Blandina T. Mmbaga², Venance P. Maro², John A. Crump³
¹Duke University, Durham, NC, United States, ²Kilimanjaro Christian Medical Centre, Moshi, United Republic of Tanzania, ³University of Otago, Dunedin, New Zealand

LB-5251

Azithromycin to reduce morbidity following hospital discharge: a secondary analysis of the Toto Bora trial

Mame M. Diakhate¹, Shawon Riffat¹, Patricia B. Pavlinac¹, Hannah E. Atlas¹, Christine J. McGrath¹, Rebecca L. Brander², Liru Meshack³, George Bogonko⁴, Joyce Otieno⁵, Ruth Nduati⁶, Barbra A. Richardson¹, Grace C. John-Stewart¹, Judd L. Watson¹, Benson O. Singa⁵, Kirkby D. Tickell¹
¹University of Washington, Seattle, WA, United States, ²International Food Policy Research Institute, Washington DC, DC, United States, ³Home Bay Teaching and Referral Hospital, Homa Bay,

Kenya, ⁴Kisii Teaching and Referral Hospital, Kisii, Kenya, ⁵Kenya Medical Research Institute (KEMRI), Nairobi, Kenya, ⁶University of Nairobi, Kenyatta National Hospital, Nairobi, Kenya

LB-5252

Disparities between limited English proficient and English proficient patient satisfaction

Bin H. Huang, Hannah Lee, Hope Pogemiller
University of Minnesota, Minneapolis, MN, United States

LB-5253

Replicable AI for Microplanning (ramp): democratizing geospatial data science for global health

Matthew Hallas
DevGlobal, Edmonds, WA, United States

LB-5254

Evaluating the impact of health campaign digitization across diverse campaigns in Benin, Nigeria, and the Democratic Republic of Congo

Tatchémè Filémon Tokponnon¹, Mariam Okê¹, Robin Altaras²
¹Tropical Health, Porto-Novo, Benin, ²Tropical Health, London, United Kingdom

LB-5255

Successful launch of a cluster-randomized trial to Evaluate the efficacy of Wolbachia-Infected Aedes aegypti mosquitoes in reducing the incidence of Arboviral infection in Brazil - EVITA

Mauro M. Teixeira¹, Sofia B. Pinto², Matthew Collins³, Adla B M Teixeira¹, Matt D T Hitchings⁴, Shoshanna Jiang⁵, Mauricio L. Nogueira⁶, Ellie Butler³, Michelle Wiles³, Olivia Coleman⁵, Gail E. Potter⁷, Nadine G. Rouphe⁸, Gregory A. Deye⁷, Walt Jones⁷, Cameron P. Simmons², Luciano A. Moreira⁸, Carolina Camillo², Michele Martins², Taayne M. Ramiro⁶, Fatima Brant¹, Derek A T Cummings⁴, Albert I. Ko⁹, Srilatha Edupuganti³
¹Federal University of Minas Gerais, Belo Horizonte, Brazil, ²World Mosquito Program, Monash University, Melbourne, Australia, ³Emory University, Atlanta, GA, United States, ⁴University of Florida, Gainesville, FL, United States, ⁵The Emmes Company, LLC, Rockville, MD, United States, ⁶Medical School of São Jose do Rio Preto, São Jose do Rio Preto, Brazil, ⁷National Institutes of Health, Rockville, MD, United States, ⁸Instituto René Rachou, Fiocruz, Belo Horizonte, Brazil, ⁹Yale School of Public Health, New Haven, CT, United States

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm
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LB-5256

Mobile Apps for the Research Data Lifecycle

Jesse T. Krisher, Caleb J. Ruth
Research Allies, LLC, Denver, CO, United States

LB-5257

Applying Biosurveillance Methodology to Conduct Site Feasibility for a Phase 3 Tuberculosis Vaccine Trial

Falgune K. Parekh¹, Wai-Ling Mui¹, Ashley Tseng¹, Joy Toro², Taylor Craig³, Carole Mitnick⁴, Gheorghis Belaj⁵
¹EpiPointe, Cary, NC, United States, ²FHI Clinical, Raleigh-Durham-Chapel Hill Area, NC, United States, ³FHI Clinical, Raleigh-Durham-Chapel Hill Area, NC, United States, ⁴Harvard Medical School, Dept of Global Health and Social Medicine, Boston, MA, United States, ⁵FHI Clinical, Raleigh-Durham-Chapel Hill area, NC, United States

LB-5258

Community Health Workers' response to epidemic-prone diseases in low-and middle-income countries: A systematic review

Eunji Cho, Lucy Paintain, **Sham Lal**
London School of Hygiene and Tropical Medicine, London, United Kingdom

LB-5259

Is Tele-diagnosis an option for the morphological identification of parasites?

Mark Fox, Sarah Grace Sapp, **Vitaliano A. Cama**
CDC, Atlanta, GA, United States

LB-5260

Post-mortem interval has no impact on diagnostic performance of minimally invasive autopsy

Natalia Rakislova¹, Juan Carlos Hurtado¹, Miguel Martinez¹, Fabiola Fernandes², Lorena Marimon¹, Cesaltina Lorenzoni³, Quique Bassat¹, Clara Menéndez¹, **Jaumeordi**¹
¹Barcelona Institute for Global Health, Barcelona, Spain, ²Maputo Central Hospital, Maputo, Spain, ³Maputo Central Hospital, Maputo, Mozambique

LB-5261

Impact of conflict and COVID-19 pandemic on the health services: opportunities for health system strengthening in North Shewa zone, Ethiopia

Clara Pons-Duran¹, Abdulhalik Workicho², Bezawit Mesfin Hunegnaw², Mesfin Hunegnaw², Tefera Biteye², Chalachew Bekele², Sebastien Haneuse¹, Anne R. Sites¹, Lisanu Tadesse², Delayehu Bekele², Grace J. Chan¹
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LB-5262

Factors associated with persistent transmission of Lymphatic Filariasis in 3 districts in Tanzania

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LB-5263

Accounting for biases in phone ownership and travel when quantifying population mobility

Natalya Kostandova¹, Christine Prosper², Simon Mutembo², Chola Nakazwe Daka³, Harriet Namukoko³, Bertha Nachinga³, Gershom Chongwe⁴, Innocent Chilumba⁴, Kalumbu H. Matakala⁵, Gloria Musukwa⁵, Mutinta Hamahuwa⁵, Irene Mutale⁴, Webster Mufwambi⁴, Edgar Simulundu⁵, Phillimon Ndubani⁵, Alvira Z. Hasan², Shaun A. Truelove¹, Amy K. Winter⁶, Andrea C. Carcelen², Bryan Lau¹, William J. Moss¹, Amy Wesolowski¹
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Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5264

A cluster-randomized trial comparing door to door vs fixed point delivery of azithromycin distribution for child mortality

Ahmed M. Arzika¹, Ramatou Malik¹, Abdou Amza², Karamba Alio¹, Nasser Gallo¹, Abdel N. Harouna¹, Diallo Beidi¹, Elodie Lebas³, Brittany Peterson³, Emily Colby³, William Nguyen³, Zijun Liu³, Meagan Fitzpatrick⁴, Benjamin F. Arnold³, Jeremy D. Keenan³, Tom M. Lietman³, Kieran S. O'Brien³

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LB-5265

Identifying potential exemplars in reducing zero-dose children: a novel approach and opportunity for accelerating progress in childhood vaccination

Nancy Fullman¹, Gustavo C. Correa², Gloria Ikilezi¹, David E. Phillips¹, Heidi Reynolds²

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LB-5266

A geostatistical study of formal care access rates for childhood illnesses in Nigeria

Ezra Gayawan¹, Tolu A. Okitika², Tasmin L. Symons², Punam Amratia², Daniel J. Weiss², Peter W. Gething², Ewan Cameron²

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LB-5267

Comparison of Four Smartphone Camera Systems to an SLR Camera System for Trachoma Images

Fahd Naufal¹, Christopher J. Brady², Beatriz Muñoz¹, Harran Mkocho³, Sheila K. West¹

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LB-5268

PAM - the Participant Allocation Manager

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LB-5269

Understanding Travelers' Perceptions and Responses Towards Emergent Mosquito-Borne Diseases

Elizabeth Pellecer Rivera¹, Sandra De Urioste-Stone¹, Allison Gardner¹, Andrea Caprara², Lorena Estrada³, Linda Silka¹, Laura Rickard¹

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LB-5270

High Prevalence of Hookworm spp. Observed in Indigenous Humans and Dogs Residing in Rural Coastal Ecuador

Audrey P. DeGroot¹, Manuel Calvopina², Joseph Eisenberg¹, Gwennyth Lee¹, William Cevallos³, Karen Levy⁴

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LB-5271

Helminth antigens differentially modulate the activation of CD4+ and CD8+ T lymphocytes of convalescent COVID-19 patients

Tomabu Adjobimey¹, Julia Meyer¹, Vedrana Terkeš², Marijo Parcina¹, Achim Hoerauf¹

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Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm
Convention Center - Hall 4A (4th Floor)

LB-5272**Helminth exposure and antibody response to Ebola vaccine: a cross sectional study of EBL2001, EBL2002 and EBL3001 trials**

Houreratou BARRY¹, Edouard Lhomme², Mathieu Surénaud³, Moumini Nouctara¹, Cynthia Robinson⁴, Viki Bockstal⁴, Innocent Valea⁵, Serge Somda⁶, Nicolas Meda⁷, Brian Greenwood⁸, Rodolphe Thiebaut², Christine Lacabartz³

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LB-5273**Factors associated with never treatment and acceptability of mass drug administration for the elimination of lymphatic filariasis in Guyana, 2021**

Claudia Duguay¹, Reza Niles², Charles R. Thickstun¹, Horace Cox², Annastacia Sampson², Jean SF Alexandre³, Nathely Caleb-Mars³, Ana Morice³, Ronaldo GC Scholte³, Alison Krentel¹

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LB-5274**Shaping mosquito immunity via microbiota manipulation**

Ottavia Romoli¹, Hervé Blanc, Lionel Frangeul, Maria Carla Saleh
Institut Pasteur, Paris, France

LB-5275**A Methodological Framework for Economic Evaluation of Operational Response to Vector-Borne Diseases based on Early Warning Systems**

Yesim Tozan¹, Maquins O. Sewe², Sooyoung Kim³, Joacim Rocklöv⁴

¹NYU School of Global Public Health, New York, NY, United States, ²Umeå University Department of Public Health and Clinical Medicine, Epidemiology and Global Health, Umeå, Sweden, ³NYU School of Global Public Health, New York, NY, United States, ⁴Umeå University, Department of Public Health and Clinical Medicine, Epidemiology and Global Health, Umeå, Sweden

LB-5276**Assessing the association between Aedes larval indices and dengue risk in Kalutara District, Sri Lanka: hierarchical time series analysis form 2010 to 2019**

Prasad Liyanage¹, **Yesim Tozan²**, Hasitha Arawinda Tissera³, Hans J. Overgaard⁴, Joacim Rocklöv⁵
¹National Institute of Health Science, Ministry of Health, Kalutara, Sri Lanka, ²New York University School of Global Public Health, New York, NY, United States, ³Epidemiology Unit, Ministry of Health, Colombo, Sri Lanka, ⁴Faculty of Science and Technology, Norwegian University of Life Sciences, Ås, Norway, ⁵Heidelberg Institute of Global Health & the Interdisciplinary Center for Scientific Computing, University of Heidelberg, Heidelberg, Germany

LB-5277**Combined Assessment of Cutaneous Leishmaniasis Magnitude and Associated Factors among Patients Attending Dermatology Outpatient Clinic of Ayder Comprehensive Specialized Hospital, Mekele, Ethiopia**

Eyerusalem Chankaye Seifu

Eka Kotebe General Hospital, Addis Ababa, Ethiopia

LB-5278**Prevalence and intensity of soil-transmitted helminth infections in five districts in Uganda following 20 years of deworming: Incorporating evidence to guide deworming activities**

Beinamaryo Prudence

Ministry of Health, Kampala, Uganda

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm
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LB-5279

Adaptive vector surveillance survey design using Bayesian Decision Theory: employing information theoretic techniques to inform statewide surveillance and control initiatives

B. K. M. Case¹, Kyndall C. Dye-Braumuller², Chris Evans³, Huixuan Li², Lauren Rustin³, Melissa S. Nolan²
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LB-5280

Impact of anthelmintic treatment and reinfection patterns in single and co-infections with Schistosoma and soil-transmitted helminths in a co-endemic focus of the Democratic Republic of Congo

Joule Ntwan Madinga¹, Clémentine Roucher², Sylvie Linsuke¹, Marie Hermy², Sylvain Baloji¹, Niko Speybroeck³, Pascal Lutumba¹, Katja Polman²
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LB-5281

Advancing approaches to disease integration programming

Diana Yousef¹, Dr Alan Brooks²
¹Global Institute for Disease Elimination, Abu Dhabi, United Arab Emirates, ²Bridges to Development, Geneva, Switzerland

LB-5282

Zanzibar Malaria and NTD Integrated Vector Management: From Silos to Synergies

Dr Fatma Kabole, Dr Mohamed Ali, Mohammed Saleh, Sophia Mohamed, Mwinyi Issa Khamis, Bakar Khatib
Zanzibar Ministry of Health, Zanzibar, United Republic of Tanzania

LB-5283

Clinical validation of rapid diagnostic test for Buruli Ulcer to detect mycolactone in wound swabs

Marina Siirin¹, Louisa Warryn², Hycenth Numfor³, Valérie Flore Donkeng⁴, Sara Eyangoh⁴, Aka N'Guetta⁵, Apia Kouame Basile⁵, Aubin Yao⁶, Luc Gontran Yeboue⁶, Rie Yotsu⁷, Dziejdom Komi de Souza⁸, Gerd Pluschke², Marco Biamonte¹
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LB-5284

Improving Trachoma Mass Drug Administration (MDA) in pastoralist and mobile populations in Moroto district in Uganda; Findings from a Data Quality Assessment (DQA)

Joyce Achan¹, Raphael Opon², Edwin Mayoki¹, Stephen Begumisa¹, Edridah Muheki², Elizabeth Plunkett³, Elizabeth Sutherland³, Alex Rutagwabeyi¹, Ivan Ankunda², Stella Agunyo¹, Stephen Otim⁴, Caroline Apuun⁴, Hans Lokale⁴, Alfred Mubangizi²
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LB-5285

Defining malaria transmission risk profiles at the subnational level in Sierra Leone using health facility data

Stanley Muoghalu¹, Musa Sillah-Kanu², Ronald Carshon-Marsh², Agneta Mbithi¹, Yazoumé Yé¹
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Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5286

Understanding provider-perceived factors influencing access to intermittent preventive treatment in pregnancy: a qualitative study of healthcare providers and administrators in Liberia

Wahdae-mai Harmon-Gray¹, Jethro W.S. Zawolo², Victor S. Koko³, Odell W. Kumeh³, Laura A. Skrip¹, Jessica M. Kafuko⁴, Birhanu S. Getahun², Mamadou O. Diallo⁵

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LB-5287

The creation of effective pan-African genetically attenuated Plasmodium falciparum sporozoite (PfSPZ) vaccines using experimental genetic crosses.

Lucia Pazzagli¹, Nastaran Rezakhani¹, Bethany Jenkins², Chakshu Gandhi³, Asha Pati², Ankit Dwivedi³, Yonas Abebe², Ehud Inbar², Joana C. Silva³, Ashley M. Vaughan¹, B. Kim Lee Sim²

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LB-5288

A case study on SMC coverage in security challenged areas of Kaduna, Katsina, and Niger states of Nigeria: Successes and missed opportunities.

Temitope Ipinmoye

Catholic Relief Services, Abuja, Nigeria

LB-5289

Estimating the malaria prevention impact of new nets: epidemiological results from piloted dual active ingredient insecticide-treated net distribution in Nigeria

Okefu Oyale Okoko¹, Peder Digre², Ali Onoja³, Dele Babarinde³, Ibrahim Abdulrahman¹, Christelle Gogue⁴, Christen Fornade⁵, Joseph Wagman⁴, Perpetua Uhomoibhi¹

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LB-5290

Detection of P. malariae using a new rapid isothermal amplification lateral flow assay

Ashenafi Assefa Bahita¹, Kevin K. Wamae², Jessica T. Lin², Jonathan B. Parr²

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LB-5291

Three-years (2019-2021) longitudinal monitoring of malaria transmission intensity in three health districts of Burkina Faso with standard, PBO, and dual active ingredient ITN deployment

Madou Tapsoba¹, Joseph Wagman², Antoine Sanou¹, Soumanaba Zongo¹, Hyacinthe K. Toe¹, René N. Kinda¹, Fatoumata Cissé¹, Gauthier Tougri³, Christelle Gogue², N'Fale Sagnon¹, Adama Gansané¹, Christen Fornade⁴, Moussa W. Guelbeogo¹

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LB-5292

Evaluating new dual active ingredient insecticide-treated nets in Nigeria: use, access, and barriers

Sylvanus Otikwu¹, Janet Ogundairo¹, Jenny Shannon², Kyra Arnett², Kelly Davis³, Ali Onoja¹, Dele Babarinde¹, Okefu Oyale Okoko⁴, Christen Fornade⁵, Joseph Wagman³, Perpetua Uhomoibhi⁴

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Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5293

Malaria prevention: evaluation of the reasons for non-use of dual active ingredient insecticide-treated mosquito nets in three health districts: Banfora, Gaoua and Orodara in Burkina Faso

Moubassira Kagone¹, Kyra Arnett², Fatou Ouattara¹, Aboubacar Fofana¹, Samy Poda¹, Siaka Débé¹, Jenny Shannon², Kenzie Tynuv³, Moussa Guelbeogo¹, N'Fale Sagnon¹, Gauthier Tougri⁴, Christelle Gogue³, Christen Fornadel⁵, Joseph Wagman³, Adama Gansané¹
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LB-5294

Determinants of dual active ingredient and PBO insecticide-treated net utilization in Mozambique, Nigeria, and Burkina Faso

Julia Mwesigwa¹, Christelle Gogue², Peder Digre³, Kenzie Tynuv², Kyra Arnett³, Baltazar Candrinho⁴, Hannah Koenker⁵, Okefu Oyale Okoko⁶, Perpetua Uhomoibhi⁶, Siaka Debe⁷, Adama Gansané⁷, Kammerle Schneider³, Christen Fornadel⁸, Joseph Wagman²
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LB-5295

Mapping of malaria detection through demographic surveillance in Bangladesh

Mohammad Sharif Hossain, Mohammad Shafiul Alam, Sabeena Ahmed, Ching Swe Phru, Wasif Ali Khan
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LB-5296

Effects of dual active ingredient insecticide-treated bed nets on malaria prevalence in children aged 6-59 months: Preliminary results of a pilot study in Burkina Faso

Harouna Soré¹, Christelle Gogue², Siaka Debe¹, René N. Kinda¹, Adama Ganou¹, Casimir Tarama¹, Gauthier Tougri³, N'Fale Sagnon¹, Joseph Wagman², Christen Fornadel⁵, Moussa W. Guelbeogo¹, Adama Gansané¹
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LB-5297

New, dual-active ingredient insecticide-treated nets in Rwanda: access, use and barriers

Chantal M. Ingabire¹, Joseph Singirankabo¹, Jenny Shannon², Kenzie Tynuv³, Kyra Arnett², Emmanuel Hakizimana⁴, Yvette Muyirukazi⁴, Christen Fornadel⁵, Joseph Wagman³, Aimable Mbituyumuremyi⁴
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LB-5298

Estimating Seasonal Malaria Chemoprevention Coverage, Four Health Zones, Benin, 2021

Camille Bignon Houetohossou¹, Hindéwé Edgard William Houndjo¹, Sakariahou Kpanou¹, Elijah Egwu², Hortense Kossou³, Patrick Condo⁴, Ahmed Saadani Hassani⁴, Cyriaque Dossou Affoukou¹
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LB-5299

Human to mosquito transmission of P. falciparum during controlled human malaria infection in Malian adults

Issaka Sagara¹, Bourama Kamate¹, Abdoulaye Katile¹, Bayaya Haidara¹, Amadou Niangaly¹, John Woodford², Jen C. C. Hume², Ousmane Poudiougou¹, Bakary Traore¹, Daman Sylla¹, Adama Sacko¹, Moussa Bamba Kanoute¹, Amatigue Zeguime¹, Irfan Zaidi², Balla Diarra¹, Karim Bengaly¹, Amagana Dolo¹, Mahamadou S. Sissoko¹, B. Kim Lee Sim³, Stephen L. Hoffman³, Jörg J. Möhrle⁴, Markus Gmeiner⁵, Patrick E. Duffy², Matthew McCall⁵, **Katharine A. Collins⁵**
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Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

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LB-5300

Identification of biomarkers associated with placenta suffering among pregnant women in Benin, a malaria-endemic area

Nadine Fievet¹, Gwladys Bertin², Manfred Accombrassi³, Laura Courtois², Gilles Cottrell², Robinson Dégbégnî⁴, Darius Sossou², Bertin VIANOU², Emmanuel Yovo⁵, Gino Agbota², Muriel Andrieu⁶, Karine Bailly⁶, Charles-Henry Cottard⁷, Nicaise Ndam², Achille Massougbodji⁵, Valérie Briand⁸
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LB-5301

Safety and Protective Efficacy against Plasmodium falciparum Malaria of PfSPZ Vaccine in Children in Bancoumana, Mali.

Mahamadoun Hamady Assadou MAIGA¹, David M. Cook², Issaka Sagara¹, Kourane Sissoko¹, Amatique Zeguime¹, Zeguime¹, Mahamadou Soumana Sissoko¹, Sadio Koni Diarra¹, Seydou Sankare¹, Sintry Sanogo¹, John Woodford², Judith Epstein², Joel Goldberg², Aye Sousa², Peter Billingsley³, Kim Lee Sim Lee Sim³, Thomas Richie³, Stephen L. Hoffman³, Patrick E. Duffy²
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LB-5302

Establishment of the Blood-stage CHMI Model with P. falciparum in Tanzania

Ally Olotu¹, Sarah Silk², Jordan R. Barrett², Florence Milando¹, Saumu Mchau¹, Enock Kessy¹, Prisca Kweyamba¹, Neema Balige¹, Omary Z. Hassan¹, Omary Juma¹, Bakari M. Bakari¹, Mohamed Mohamed¹, Brian Tarimo¹, Hania Msami¹, Tunu Mwamlima¹, Wilmina

Kalinga¹, Aivan Mtaka¹, Nassoro Lilolime¹, Sarah Mswata¹, Latipha Mohamed¹, Leah Bategereza¹, Mabula J. Kasubi³, Jo Salkeld², Doris Quinkert², Alison M. Lawrie², Jee-Sun Cho², Simon J. Draper², Angela M. Minassian²

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LB-5303

Impact of pre-treatment mutations on the clearance and cure of P. falciparum malaria in Asian and African patients treated with ganaplacide-lumefantrine in a Phase II clinical trial

Cornelis Winnips¹, **Celine Risterucci**¹, Hazem Ahmed¹, Christian Nsanzabana²
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LB-5304

Quantifying impact of malaria in pregnancy on maternal anemia and its determinants

Sequoia I. Leuba¹, Robert Verity¹, Matt Cairns², Julie R. Gutman³, Kassoum Kayentao⁴, Simon Kariuki⁵, Harry Tagbor⁶, Meghna Desai³, Brian Greenwood², Patrick G. T. Walker¹
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Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5305

Expanded cross-sectional measurements of *Plasmodium falciparum* malaria disease burden using a multiplex bead-based serological assay, Nigeria, 2018

Jonathan Schultz¹, Colleen Leonard², Dean Sayre³, Scott Lee⁴, Chad Heilig⁴, Biodun Ogunniyi⁵, Perpetua Uhomoibhi⁶, Ado Abubakar⁵, Nnaemeka Iriemenam⁷, McPaul Okoye⁷, Mateusz Plucinski³, Laura Steinhardt², Eric Rogier²

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LB-5306

Phase I laboratory and Phase II experimental hut evaluation of a new candidate deltamethrin-chlorfenapyr mixture insecticide-treated net (PermaNet Dual)

Thomas Syme¹, Boris N'dombidje², Martial Gbegbo², Corine Ngufor¹

¹London School of Hygiene & Tropical Medicine, London, United Kingdom, ²Centre de Recherche Entomologique de Cotonou, Cotonou, Benin

LB-5307

Applying an effective coverage cascade to measure gaps in case management of *P. vivax* malaria, improve coverage, and maximize impact in Cambodia

Dysoley Lek¹, Somaya Iqbal², Bunmeng Chhun², Narann Top Samphor³, Sokomar Nguon³, Sovann Peng⁴, Julia C. Dunn², Hoi Ching Cheung², Yucheng Tsai², Sovannaroth Siv⁵, Rekol Huy⁵

¹National Centre for Parasitology, Entomology and Malaria Control; School of Public Health, National Institute of Public Health, Phnom Penh, Cambodia, ²Clinton Health Access Initiative, Phnom Penh, Cambodia, ³University Research Co., LLC (URC), Phnom Penh, Cambodia, ⁴Catholic Relief Services,

Phnom Penh, Cambodia, ⁵National Centre for Parasitology, Entomology and Malaria Control, Phnom Penh, Cambodia

LB-5308

Artemisinin-based combination treatment failure in patients returning from Sub-Saharan Africa with *P. falciparum* malaria

Eli Schwartz¹, Julia Vainer², Yael Paran³, Ron Dzikowski⁴, Tamar Grossman²

¹Sheba Medical Center, Ramat-Gan, Israel, ²Public Health Laboratories, MOH, Jerusalem, Israel, ³Tel Aviv Medical Center, Tel-Aviv, Israel, ⁴Hadassah Medical Center, Jerusalem, Israel

LB-5309

Misclassification of Severe Malaria at Community Health Center and First-level Referral Health Facilities in Mali

Diadier Diallo¹, Sekou T. Kouata¹, Boubacar Doucoure², Beh Kamate³, Madina Konate², Seybou Coulibaly², Ignace Traoré¹, Assitan Coulibaly², Diahara Traoré², Assita Koné², Jean-Marie N'Gbichi¹, Lavanya Gupta⁴, Aliou Diallo⁵, Lansana Sangaré⁵, Jules Mihigo⁶, Debbie Gueye⁷, Yazoumé Yé¹

¹U.S. President's Malaria Initiative Measure Malaria, University of North Carolina and ICF, Chapel Hill, NC, United States, ²National Malaria Control Program, Bamako, Mali, ³U.S. President's Malaria Initiative Impact Malaria and PSI, Bamako, Mali, ⁴U.S. President's Malaria Initiative Measure Malaria, University of North Carolina, Chapel Hill, NC, United States, ⁵U.S. President's Malaria Initiative, Bamako, Mali, ⁶U.S. President's Malaria Initiative, Lagos, Nigeria, ⁷U.S. President's Malaria Initiative, Washington, DC, United States

LB-5310

Prevalence of *Plasmodium falciparum* mdr1 and kelch13 mutations among pregnant women in a high malaria transmission area in the middle belt of Ghana

David K. Dosoo¹, Brian Greenwood², Jeff Bailey³, Dorcas Atibilla¹, Karamoko Niare³, Seth Owusu-Agyei⁴, Daniel Chandramohan², Kwaku P. Asante¹

¹Kintampo Health Research Centre, Kintampo, Ghana, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³Brown University, Providence, RI, United States, ⁴University of Health and Allied Sciences, Ho, Ghana

Poster Session B Presentations

Tuesday, November 1, 2022, Noon - 1:45 pm

Convention Center - Hall 4A (4th Floor)

LB-5311

Evaluation of pLDH antigen based rapid diagnostic test prototype for the detection of malaria in a multi species endemic area in Indonesia

Rukhsana Ahmed¹, Seda Yerlikaya², Ewurama DA Owusu², Nadia Fadila³, Leily Trianty³, Agatha M. Pupitasari³, Theda Lukito¹, Ristya Amalia³, Pinkan P. Kariodimedjo³, Hidar Hidar³, Fahir A. Nisa³, Jeanne R. Poespoprodjo⁴, Enny Kenangalem⁴, Helena Burdam⁴, Leonardo Prayoga⁴, Rintis Noviyanti³, Sabine Dittrich²
¹Clinesia CRO, Jakarta, Indonesia, ²Foundation of Innovative Diagnostics, Geneva, Switzerland, ³Eijkman Institute for Molecular Biology, Jakarta, Indonesia, ⁴Timika Research Facility, Timika, Indonesia

LB-5312

Emerging evidence from large controlled human malaria infection trials supports previously identified RTS,S biomarkers associated with protection

Rachel L. Spreng¹, **Kelly E. Seaton**¹, S. Moses Dennison¹, Lynn Lin¹, Sir Tauria L. Hilliard¹, Alexander Carnacchi¹, Gillian Q. Horn¹, Milite Abraha¹, Elizabeth Feeney¹, Siam Shabbir¹, Lu Zhang¹, Valerie Bekker¹, Sarah V. Mudrak¹, Sheetij Dutta², Scott Gregory³, C. Richter King³, Ulrike Wille-Reece³, Neville Kisalu³, Erik Jongert⁴, Georgia D. Tomaras¹
¹Duke University, Durham, NC, United States, ²Walter Reed Army Institute of Research, Silver Spring, MD, United States, ³PATH Malaria Vaccine Initiative, Washington, DC, United States, ⁴GlaxoSmithKline, Brussels, Belgium

LB-5313

Age-stratified Schistosomiasis prevalence and sero-prevalence in rural and urban settings in Madagascar

Raphael M. Zellweger

International Vaccine Institute, Seoul, Republic of Korea

LB-5314

Predicting persistent hotspots of Schistosoma transmission to guide preventive chemotherapy programs

Benjamin J. Singer¹, Jean T. Coulibaly², Hailey J. Park¹, Jason R. Andrews³, Isaac I. Bogoch⁴, **Nathan C. Lo**¹
¹University of California, San Francisco, San Francisco, CA, United States, ²Université Félix Houphouët-Boigny, Centre Suisse de Recherches Scientifiques en Côte d'Ivoire, Swiss Tropical and Public Health Institute, University of Basel, Abidjan/Basel, Côte d'Ivoire, ³Stanford University, Stanford, CA, United States, ⁴University of Toronto, Toronto, ON, Canada

LB-5315

Antigen seropositivity for schistosomiasis from population-based integrated sero-surveys in North Darfur, Sudan

Andrew W. Nute¹, Zeinab Abdalla², Phong Le¹, Hassan Ahmed Hassan³, Angelia M. Sanders¹, Gregory S. Noland¹, Sara Lavinia Brair², Balgesa E. Elshafie³, Scott D. Nash¹
¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Khartoum, Sudan, ³Federal Ministry of Health, Khartoum, Sudan

LB-5316

Development of serological assays for Clonorchis sinensis and Opisthorchis viverrini liver fluke infection

Vashti Irani¹, Santosh George¹, Gabrielle Farulla-Bastian¹, Yevgeniy Studentsov¹, Jeremy Schonhorn¹, Hung Nguyen², **Andrew Levin**¹
¹Kephera Diagnostics, LLC, Framingham, MA, United States, ²Institute of Ecology and Biological Resources, Hanoi, Vietnam

Poster Session 102

Poster Session C Presentations

Wednesday, November 2, 2022, 11 am - 12:45 pm

Convention Center - Hall 4A (4th Floor)

Late-Breakers in Basic Sciences

Basic Sciences - Coronavirus#LB-5324 through LB-5335
Basic Sciences - Cestodes#LB-5336 through LB-5337
Basic Sciences - Helminths – Nematodes.....#LB-5338 through LB-5343
Basic Sciences – Malaria#LB-5344 through LB-5366
Basic Sciences - Molecular Parasitology#LB-5367 through LB-5381

Late-Breakers in Clinical and Applied Sciences

Clinical and Applied Sciences - Arthropods/Entomology#LB-5382 through LB-5389
Clinical and Applied Sciences - Global Health#LB-5390 through LB-5409
Clinical and Applied Sciences - Integrated Control Measures for
Neglected Tropical Diseases (NTDs).....#LB-5410 through LB-5419
Clinical and Applied Sciences - Malaria#LB-5420 through LB-5447
Clinical and Applied Sciences - One Health: The Interconnection
between People, Animals, Plants and Their Shared Environment #LB-5448 through LB-5462
Clinical and Applied Sciences - Viruses (all other viruses)#LB-5463 through LB-5480
Clinical and Applied Sciences - Water, Sanitation, Hygiene and
Environmental Health#LB-5481 through LB-5488

LB-5324

Mobility and preventive behaviors during the COVID-19 pandemic among participants in a community cohort in Ponce, Puerto Rico

Dania Rodriguez¹, Chelsea Major¹, Liliana Sánchez-González¹, Vanessa Rivera-Amill², Melissa Briggs-Hagen³, Sharon Saydah³, Gabriela Paz-Bailey⁴, Laura E. Adams¹

¹Division of Vector-borne Diseases, Centers for Disease Control and Prevention, San Juan, Puerto Rico, ²Ponce Health Sciences University, Ponce Research Institute, Ponce, Puerto Rico, ³Division of Viral Diseases, Respiratory Viruses Branch, Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5325

Behavioral & social determinants of COVID-19 vaccine acceptance among healthcare workers and community members to improve communication strategies in the Democratic Republic of the Congo: A Longitudinal Analysis

Casey Morgan Luc¹, Dalau Mukadi Nkamba², Nicole Hoff³, Sylvia Tangney³, Angelica Barrall³, Skylar Martin³, Nicholas Ida³, Kamy Musene⁴, Gloire Mbaka Onya⁴, Adva Gadoth³, Brooke Aksnes¹, Robert Perry¹, Melissa Dahlke¹, Reena Doshi¹, Richard Luce⁵, Nancy Ortiz¹, Didine Kaba², Anne Rimoin³

¹Global Immunization Division, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, ³UCLA Fielding School of Public Health, Los Angeles, CA, United States, ⁴UCLA-DRC Research Program, Kinshasa, Democratic Republic of the Congo, ⁵Division of Global Health Protection, Center for Global Health, Centers for Disease Control and Prevention, Kinshasa, Democratic Republic of the Congo

LB-5326

Characterizing SARS-CoV-2 infected hospitalized patients identified through hospital-based influenza surveillances in Bangladesh, March 2020-May 2022

Md Ariful Islam, Md Zakiul Hassan, Md Kaousar Ahmmed, Zubair Akhtar, Tanzir Ahmed Shuvo, Probir Kumar Ghosh, Mohammad Abdul Aleem, Syeda Mah-E-Muneer, Mohammed Ziaur Rahman, Fahmida Chowdhury
International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh

Poster Session C Presentations

Wednesday, November 2, 2022, 11 am - 12:45 pm
Convention Center - Hall 4A (4th Floor)

LB-5327

Optimization of the bioanalysis of vaccine-induced cell-mediated immune responses in global clinical trials

Jacqueline S. Eacret, Roy Helmy, Sheri A. Dubey
Merck & Co., West Point, PA, United States

LB-5328

Coordination of laboratory diagnosis of Covid-19 in Ghana by the Noguchi Memorial Institute for Medical Research (NMIMR): Experiences and Lessons learnt

JOHN K. ODOOM¹, Ivy A. Asante¹, Evelyn Y. Bonney¹, Evangeline Obodai¹, Joseph HK Bonney¹, James Aboagye², Mildred Adusei-Poku¹, Dennis Laryea³, Franklin Asiedu-Bekoe⁴, George B. Kye², Helena Lamptey¹, Michael Ofori¹, Dorothy Yeboah-Manu¹, Abraham K. Anang¹, William K. Ampofo¹
¹NOGUCHI MEMORIAL INSTITUTE FOR MEDICAL RESEARCH, LEGON, Ghana, ²NOGUCHI MEMORIAL INSTITUTE FOR MEDICAL RESEARCH & UNIVERSITY OF GHANA MEDICAL CENTRE, LEGON, Ghana, ³DISEASE SURVEILLANCE DEPARTMENT, KORLE-BU, Ghana, ⁴GHANA HEALTH SERVICE, ACCRA, Ghana

LB-5329

Genomic and Virological Characterization of SARS-CoV-2 Variants in a Subset of U.S. Military Personnel from March 2020 to June 2022

Andrea E. Luquette¹, Robin H. Miller¹, Christopher Singh¹, Jennetta Green¹, Matthew R. Lueder¹, Catherine E. Arnold¹, Logan J. Voegtly¹, Kyle A. Long¹, Gregory K. Rice¹, Haven L. Miner¹, Lindsay Glang¹, Andrew J. Bennett¹, Francisco Malagon¹, Regina Z. Cer¹, Stephen M. Egan², Darci R. Smith¹, Kimberly A. Bishop-Lilly¹
¹Naval Medical Research Center, Biological Defense Research Directorate, Frederick, MD, United States, ²U.S. Naval Medical Research Unit (NAMRU-3), Camp Lemonnier, Djibouti

LB-5330

Duration of SARS-CoV-2 RNA detection among participants with incident infections in a community cohort in Ponce, Puerto Rico

Chelsea G. Major¹, Dania M. Rodríguez¹, Neal Alexander², Liliana Sánchez-González¹, Tatiana

Morales-Ortiz³, Carolina Torres¹, Nicole Medina-Lopes¹, Gilberto A. Santiago¹, Jorge L. Muñoz-Jordan¹, David Mabey², Melissa A. Rolfes⁴, Laura E. Adams¹, Vanessa Rivera-Amill³, Gabriela Paz-Bailey¹

¹Division of Vector Borne Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States, ²London School of Hygiene and Tropical Medicine, London, United Kingdom, ³Ponce Health Sciences University and Saint Luke's Episcopal Hospital Consortium, Ponce, PR, United States, ⁴Centers for Disease Control and Prevention COVID-19 Emergency Response Team, Atlanta, GA, United States

LB-5331

A Mixed Methods Study of COVID19 Vaccine Hesitancy in Botswana

Nabila F. Youssouf¹, Gyula Petranyi², Ruvandhi R. Nathavitharana², Rebecca Zash², Laura M. Bogart³, Sara U. Schwanke Khilji¹, Claire Zeigler⁴, Esther Seloilwe⁵, Mosepele Mosepele⁵
¹Botswana Harvard AIDS Partnership, Gaborone, Botswana, ²Beth Israel Deaconess Medical Center, Boston, MA, United States, ³RAND Corporation, Santa Monica, CA, United States, ⁴Oregon Health & Science University, Portland, OR, United States, ⁵University of Botswana, Gaborone, Botswana

LB-5332

Estimating the effect of introducing digital immunity passport (Tawwakina) to mitigate COVID-19 spread in Saudi Arabia

Donal Bisanzio¹, Richard Reithinger¹, Sami Almudarra², Reem F. Alsukait³, Faisal Kattan⁴, Di Dong⁵, Yi Zhang⁵, Sameh El-Saharty⁵, Hala Almosawi¹, Christopher H. Herbst⁵, Ada Alqunaibet⁶
¹RTI International, Washington, DC, United States, ²Ministry of Health of Saudi Arabia, Riyadh, Saudi Arabia, ³College of Applied Medical Sciences, King Saud University, Riyadh, Saudi Arabia, ⁴Ministry of Economy and Planning, Riyadh, Saudi Arabia, ⁵World Bank, Washington, DC, United States, ⁶Saudi Public Health Authority, Riyadh, Saudi Arabia

LB-5333

Transmission of SARS-CoV-2 Omicron variant BA.1.1 from an infected human host to its companion pet cat in Lima, Peru

Alejandra Garcia Glaessner, Diana Juarez, Patricia Barrera, Gabriela Salmon, Mariana Leguia
Pontificia Universidad Catolica del Peru, Lima, Peru

Poster Session C Presentations

Wednesday, November 2, 2022, 11 am - 12:45 pm
Convention Center - Hall 4A (4th Floor)

LB-5334

Genomic Surveillance of SARS-CoV-2 in Humans and Animals in Peru

Alejandra Garcia Glaessner¹, Diana Juarez², Patricia Barrera¹, Gabriela Salmon-Mulanovich¹, Breno V. Muñoz Saavedra¹, Katherine Jamanca Abalos¹, Keliee Vilcahuaman Mendizabal¹, Anghelina Villar Davila², Martin Montes², Maribel Huaranga³, Maria Paquita Garcia³, Mariana Leguia¹
¹Pontificia Universidad Católica del Peru, Lima, Peru, ²Clinica San Felipe, Lima, Peru, ³Instituto Nacional de Salud, Lima, Peru

LB-5335

Development and validation of a molecular diagnostic for SARS CoV-2 subgenomic (sg) RNA indicates that sgRNAs are not appropriate markers of the infectious state

Diana Juarez¹, Alejandra Garcia¹, Patricia Barrera¹, Gabriela Salmon-Mulanovich¹, Anghelina Villar², Martin Montes², Maribel Huaranga³, Maria Garcia³, Mariana Leguia¹
¹Pontificia Universidad Católica del Peru, Lima, Peru, ²Clinica San Felipe, Lima, Peru, ³Instituto Nacional de Salud del Peru, Lima, Peru

LB-5336

Longitudinal analysis of changes in size and volume cyst, liver enzymes and plasmatic albendazole sulfoxide levels in patients with hepatic hydatid disease

Jaime Rosales¹, Luis Tello², Raul Montalvo³, **Raul Enriquez**¹, Hugo Garcia¹, Saul Santivañez⁴
¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Instituto Regional de Enfermedades Neoplásicas del Centro, Junin, Peru, ³Hospital Daniel Alcides Carrion, Huancayo, Peru, ⁴Universidad Nacional del Centro del Peru, Huancayo, Peru

LB-5337

Development of antigenic recombinant proteins from Echinococcus granulosus: vaccine candidate against canine echinococcosis

Janet Acosta¹, Luis M. Jara², Manuela R. Verastegui¹, Martin Obregon³, Faride Altamirano-Zevallos⁴, Nicasio Valencia⁵, Luis A. Gomez-Puerta⁴, Cesar M. Gavidia⁴
¹Laboratorio de Investigación en Enfermedades Infecciosas, LID, Universidad Peruana Cayetano

Heredia, Lima, Peru, ²Facultad de Medicina Veterinaria y Zootecnia, Universidad Peruana Cayetano Heredia, Lima, Peru, ³Facultad de Ciencias Biológicas, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁴Facultad de Medicina Veterinaria, Universidad Nacional Mayor de San Marcos, Lima, Peru, ⁵Facultad de Ciencias e Ingeniería, Universidad Nacional de Huancavelica, Huancavelica, Peru

LB-5338

Brugia malayi exosomes: Comparison of extracellular vesicle isolation methods for analysis by mass spectrometry

Devyn A. Yates, Lucia S. Di Maggio, Reid Townsend, Gary J. Weil, Peter U. Fischer
Washington University School of Medicine, St. Louis, MO, United States

LB-5339

Bma-LAD-2 as a potential therapeutic target for lymphatic filariasis

Allison Segard¹, Alexander F. Flynn¹, William Tolbert², Marzena Pazgier², Sasisekhar Bennuru³, Tim K. Mauge⁴, Thomas B. Nutman³, Edward Mitre¹
¹Department of Microbiology and Immunology, Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Department of Medicine, Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ³Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ⁴Laboratory for Biological Ultrastructure, Department of Biology, University of Maryland, Silver Spring, MD, United States

LB-5340

Identification of Novel Therapeutics Against Human Schistosomiasis

Sevan Alwan
UT Health at San Antonio, San Antonio, TX, United States

LB-5341

Prevalence and intensity of soil-transmitted helminth infections in Narok County, Kenya: Evidence from programme monitoring

Kristin Sullivan
Task Force for Global Health, Decatur, GA, United States

Poster Session C Presentations

Wednesday, November 2, 2022, 11 am - 12:45 pm
Convention Center - Hall 4A (4th Floor)

LB-5342

First Assembly of a *Necator americanus* genome from an isolate in Ghana

Joseph R. Fauver¹, Kaylee Herzog¹, Lisa M. Harrison², Emma Allen², Dickson Osabutay³, Michael E. Wilson³, Michael Cappello²
¹University of Nebraska Medical Center, Omaha, NE, United States, ²Yale School of Medicine, New Haven, CT, United States, ³University of Ghana, Legon, Ghana

LB-5343

Identification of persistent hotspots of schistosomiasis after multiple rounds of treatment: findings from Togo, Benin and Senegal

Anna Elizabeth Phillips¹, Monique Dorkenoo², Ines Dosso³, Franck Sintondji³, Rose Monteil⁴, Luke Klein¹, Achille Kabore¹, Diana Stukel¹
¹Family Health International (FHI 360), Washington DC, DC, United States, ²University of Lome, Lome, Togo, ³Family Health International (FHI 360), Cotonou, Benin, ⁴Family Health International (FHI 360), Dakar, Senegal

LB-5344

DISTRIBUTION MODEL OF HEALTH PRODUCTS AT THE LAST MILE IN INACCESSIBLE AREAS

Mourchidath Adjoke ADEGBINDI¹, Ghislaine DJIDJOHO¹, Chloe PEEBLES²
¹CHEMONICS, COTONOU, Benin, ²CHEMONICS, COLOMBIA, Colombia

LB-5345

Comparison of genetic diversity and population structure in *Plasmodium falciparum* symptomatic and asymptomatic infections in selected Ghanaian communities.

Selassie Majola Sawyerr Kumordjie¹, George Sarfo Boateng², Ozkan Aydemir³, Quratul ain Issahaque¹, Patrick Marsh⁴, Deborah Chin⁴, Fareed Arthur⁵, Anita Ghansah¹, Jeff Bailey⁴, Bright Adu¹
¹Noguchi Memorial Institute, Accra, Ghana, ²North Dakota State University, Fargo, ND, United States, ³University of Massachusetts, Boston, MA, United States, ⁴Brown University, Providence, RI, United States, ⁵Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

LB-5346

Primary-amine reactive pH-sensitive fluorescent dyes can readily distinguish adherent versus phagocytosed *Plasmodium falciparum* infected red cells in image and flow cytometric-based phagocytic assays

Aidan Biondi¹, Emily Y. Liang², Nicole A. Casale³, Piseth Koy⁴, Christian P. Nixon⁵
¹Brown University, Providence, RI, United States, ²Center for International Health Research, Brown University, Brown University, RI, United States, ³University of Rhode Island, Providence, RI, United States, ⁴Community College of Rhode Island, Providence, RI, United States, ⁵Center for International Health Research, Brown University, Providence, RI, United States

LB-5347

A Targeted Approach to Treatment of Malaria: A Myosin Inhibitor Blocks Multiple Stages of the *Plasmodium* Lifecycle

Darshan Trivedi¹, **Anastasia Karabina¹**, Gustave Bergnes¹, Alice Racca¹, Stephanie Ouchida¹, Heba Wander¹, Seongwon Jung¹, Nimisha Mittal², Tonnie Huijs³, Marianna Akey⁴, David L. Sibley⁴, Sergio Wittlin⁵, TCGLS in vitro biology team⁶, Koen Dechering³, Elizabeth Winzeler², Benoit Laleu⁷, Annamma Spudich¹, Kathleen Ruppel¹, Suman Nag¹, James A. Spudich¹
¹Kainomyx, Inc, Palo Alto, CA, United States, ²University of California San Diego, La Jolla, CA, United States, ³TropIQ Health Sciences, Nijmegen, Netherlands, ⁴Washington University, St. Louis, MO, United States, ⁵Swiss Tropical and Public Health Institute, Basel, Switzerland, ⁶TCG Life Sciences Ltd, Kolkata, India, ⁷Medicines for Malaria Venture, Geneva, Switzerland

LB-5348

Identification of antigens and cognate antibodies that are important for protection conferred by radiation-attenuated *Plasmodium falciparum* sporozoite vaccination

Suzanne McDermott, Vy Pham, Maxwell Tracy, Kenneth Stuart
Seattle Children's Research Institute, Seattle, WA, United States

Poster Session C Presentations

Wednesday, November 2, 2022, 11 am - 12:45 pm
Convention Center - Hall 4A (4th Floor)

LB-5349

Development of monoclonal anti-PfGARP antibodies for the treatment of *P. Falciparum* malaria

Jenna Zuromski, Helen Zhang, Jonathan Kurtis
Brown University, Providence, RI, United States

LB-5350

Optimizing protocols for large-scale production of gametocytes

Amel O. A. Ahmed, Standwell C. Nkhoma, Robert E. Molestina, Timothy T. Stedman
BEI Resources, ATCC, Manassas, VA, United States

LB-5351

Low Frequency of Non-Falciparum Malaria Species Circulating in Nnewi District, Southeast Nigeria

Moses N. Ikegbunam¹, Vincent C. Duru¹, Emmanuel Enyi¹, Nwasolu Obidi¹, Charles O. Esimone¹, Oriero C. Eniyou², Alfred Amambua-Ngwa²
¹Nnamdi Azikiwe University, Awka, Nigeria, ²MRC Unit The Gambia at LSHTM, Banjul, Gambia

LB-5352

Validation of in silico predicted *P. vivax* Duffy Binding protein MHC class II restricted peptides

Sai Lata De¹, Krisztian Csomos², Justin Nicholas¹, Francis B. Ntumngia¹, John Adams¹
¹University of South Florida, TAMPA, FL, United States, ²University of South Florida, St Petersburg, FL, United States

LB-5353

Asymptomatic carriage of *Plasmodium* parasites is associated with the presence of myeloid-derived suppressor cells

Balotin Fogang¹, Anne Jensen², **Lauren Lajos**³, Chris-Marco Nana-Mbianda¹, Mary Abite⁴, Celine Slam², Christiane Donkeou¹, Sylvie Kemleu⁵, Douglas H. Cornwall², Mellina T. Srey², Rosette Megnekou¹, Lawrence Ayong⁶, Tracey Lamb²
¹Department of Animal Biology and Physiology of the University of Yaoundé I, Yaounde, Cameroon, ²Department of Pathology, University of

Utah, Salt Lake City, UT, United States, ³Department of Pediatrics and Department of Pathology, University of Utah, Salt Lake City, UT, United States, ⁴Department of Biochemistry, University of Douala, BP 24157, Douala, Cameroon, ⁵Department of Medical Laboratory Sciences, University of Buea, Buea, Cameroon, ⁶Molecular Parasitology Laboratory, Centre Pasteur du Cameroun, Yaounde, Cameroon

LB-5354

Simultaneous treatment of malaria and its co-evolved genetic disorder sickle cell anaemia

Innocent Safeukui¹, Russell E. Ware², Narla Mohandas³, Kasturi Haldar¹
¹University of Notre Dame, Notre Dame, IN, United States, ²Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States, ³New York Blood Center, New York, NY, United States

LB-5355

Country Malaria Risk Profiling for Better Informed Malaria Control Interventions in Cameroon

Eric Diboulo¹, Judith Hedje², Dorothy Fosah Achu³, Jean Pierre Kidwang³, Jean-Marie Tsachoung¹, Moïse Hugue René Abomabo³, Jean Fosso³, Souleymanou Souleymanou⁴, Yazoumé Yé¹
¹U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Chapel Hill, NC, United States, ²U.S. Centers for Disease Control and Prevention, Yaoundé, Cameroon/U.S. President's Malaria Initiative, Yaoundé, Cameroon, Cameroon, Cameroon, ³National Malaria Control Program, Yaoundé, Cameroon, Yaoundé, Cameroon, ⁴U.S. President's Malaria Initiative, Yaoundé, Cameroon /U.S. Agency for International Development, Yaoundé, Cameroon, Yaoundé, Cameroon

LB-5356

Genotypically Duffy Negatives Express a Little Duffy Antigen on Erythrocytes.

Jurgen Bosch¹, Karli R. Redinger¹, Celia Dechavanne², Sebastien Dechavanne², Benoit Gamain², Lenore L. Carias¹, Quentin D. Watson¹, Peter A. Zimmerman¹, Christopher L. King¹
¹Case Western Reserve University, Cleveland, OH, United States, ²Université Sorbonne Paris Cité, Université Paris Diderot, Inserm, National Institute of Blood Transfusion (INTS), Unité Biologie Intégrée du Globule Rouge, Paris, France

Poster Session C Presentations

Wednesday, November 2, 2022, 11 am - 12:45 pm
Convention Center - Hall 4A (4th Floor)

LB-5357

Kdr insecticide resistance mutations in *Nyssorhynchus darlingi* from Amazonian Brazil and Peru

Jan E. Conn

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

LB-5358

The hidden *Plasmodium malariae*/*Plasmodium brasilianum*: the impact of primate malaria on transfusion safety policies.

Mariana Aschar¹, Maria Carmen Arroyo Sanchez¹, Ruth Tamara Valencia-Portillo¹, Maria de Jesus Costa-Nascimento², Sandra C. Montebello³, Alfredo Mendrone-Junior³, Larissa Silva Campos⁴, Thereza Cristina Picado Pinheiro⁴, Afonso José P. Cortez⁵, José Eduardo Levi¹, **Silvia Maria Di Santi¹**
¹USP, São Paulo, Brazil, ²Health Department, São Paulo, Brazil, ³Fundação Pro Sangue, São Paulo, Brazil, ⁴Hemoacre, Rio Branco, Brazil, ⁵Colsan, São Paulo, Brazil

LB-5359

Pre-conception PfSPZ Vaccine: Safety and Efficacy during subsequent pregnancy in Ouélessébougou, Mali

Halimatou Diawara

Icermali, Bamako, Mali

LB-5360

Immunogenicity of a *P. vivax* blood stage nanoparticle Vaccine

Francis Ntumngia¹, Gregory P. Howard², Sai Lata De¹, Samantha Barnes¹, Rhoel R. Dinglasan³, Hai-Quan Mao⁴, John H. Adams¹
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LB-5361

Global genetic diversity of markers for serosurveillance of *Plasmodium vivax* malaria

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LB-5362

Methylene blue enhances the in vitro gametocytocidal antimalarial activity of tafenoquine

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LB-5363

Baseline characteristics of participants in a phase 2 trial in Mali of CIS43LS, a monoclonal antibody against malaria

Aissata Ongoiba¹, Hamadi TRAORE¹, Adama Djiguiba¹, Safiatou Doumbo Niare¹, Adama Ouattara¹, Amatique Zeguime¹, Anne PRESTON², Peter Crompton³, Boubacar Traore¹, Kassoum Kayentao¹
¹ICERMALI/USTTB, BAMAKO, Mali, ²Gap Solutions, ROCKVILLE, MD, United States, ³NIAID,NIH, ROCKVILLE, MD, United States

LB-5364

High rates of indel mutation and mitotic recombination in the malaria parasite *Plasmodium falciparum*

William L. Hamilton¹, Aakanksha Singh², Marc-Antoine Guery², Dominic P. Kwiatkowski¹, Julian C. Rayner³, Antoine Claessens²
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Poster Session C Presentations

Wednesday, November 2, 2022, 11 am - 12:45 pm
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LB-5365**Assessment of the competitive fitness impact of *P. falciparum* AAT1 mutations in the presence of artemisinin partner drugs**

John Kane¹, Katelyn Vendrely Brenneman¹, Katrina A. Button-Simons¹, Xue Li², Sudhir Kumar³, Mackenzie A. C. Sievert¹, Lisa A. Checkley¹, Nelly Camargo³, Meseret T. Haile³, Douglas A. Shoue¹, Ann Reyes², Marina McDew-White², Abeer Sayeed⁴, François H. Nosten⁵, Stefan H. Kappe³, Ian H. Cheeseman⁶, Ashley M. Vaughan³, Timothy J.C. Anderson², Michael T. Ferdig¹
¹Eck Institute for Global Health, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN, United States, ²Disease Intervention and Prevention Program, Texas Biomedical Research Institute, San Antonio, TX, United States, ³Center for Global Infectious Disease Research, Seattle Children's Research Institute, Seattle, WA, United States, ⁴Disease Intervention and Prevention Program, Texas Biomedical Research Institute, San Antonio, TX, United States, ⁵Centre for Tropical Medicine and Global Health, Nuffield Department of Medicine Research building, University of Oxford Old Road campus, Oxford, United Kingdom, ⁶Host-Pathogen Interactions Program, Texas Biomedical Research Institute, San Antonio, TX, United States

LB-5366**Early developmental stages of *Plasmodium falciparum* gametocyte maturation may offer a relative window of susceptibility to opsonic phagocytosis**

Emily Y. Liang¹, Aidan Biondi², Aishwarya Arivudainambi², Elisa Dong², Christian P. Nixon¹
¹Center for International Health Research, Brown University, Providence, RI, United States, ²Brown University, Providence, RI, United States

LB-5367**Apicoplast ribosomal protein S10 V127M enhances artemisinin resistance in a resistant transgenic *Plasmodium falciparum***

Tanyaluck Kampoun¹, Chairat Uthaipibul², Anthony A. Holder³, Somdet Srichairatanakool¹
¹Chiang Mai University, Chiang Mai, Thailand, ²National Center for Genetic Engineering and Biotechnology (BIOTEC), Pathum Thani, Thailand, ³The Francis Crick Institute, London, United Kingdom

LB-5368**Gliding motility and erythrocyte invasion of *Plasmodium falciparum* merozoites**

KAZUHIDE YAHATA¹, Heledd Davies², Masahito Asada³, Thomas Templeton⁴, Moritz Treeck², Osamu Kaneko⁴
¹Division of Molecular Parasitology, PROS, Ehime University, Toon, Japan, ²Signalling in Apicomplexan Parasites Laboratory, The Francis Crick Institute, London, United Kingdom, ³National Research Center for Protozoan Diseases, Obihiro University of Agriculture and Veterinary Medicine, Obihiro, Japan, ⁴Department of Protozoology, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan

LB-5369**Performance of schistosome promoters driving transgene expression of green fluorescent protein at a genome safe harbor of *Schistosoma mansoni***

Eric T. Kenney¹, Karina I. Rivas¹, Wannaporn Ittiprasert¹, Max F. Möscheid², Victoria H. Mann¹, Paul J. Brindley¹
¹The George Washington University, Washington, DC, United States, ²Justus Liebig University Giessen, Giessen, Germany

LB-5370**Host and parasite gene expression during uncomplicated malaria infections**

Kieran Tebben¹, Salif Yirampo², Drissa Coulibaly², Mahamadou Thera², Mark Travassos¹, **David Serre**¹
¹University of Maryland School of Medicine, Baltimore, MD, United States, ²University of Sciences, Techniques and Technologies, Bamako, Mali

LB-5371**Identification of a candidate host receptor for *P. falciparum* EBA181 invasion ligand - role of SLC4A1 in parasite invasion**

Usheer Kanjee, Cyrienne Keutcha, Manish Kumar, Estela Shabani, Camila Franca, Rebecca S. Lee, Manoj T. Duraisingh
Harvard T.H. Chan School of Public Health, Boston, MA, United States

Poster Session C Presentations

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LB-5372

Population genomic variation and structure of schistosome parasites in reemergent hotspots revealed by genomic sequencing of archival miracidia.

Zachary L. Nikolakis¹, Andrea Lund², Kristen J. Wade³, Yang Liu⁴, Bo Zhong⁴, Elizabeth J. Carlton², David Pollock³, Todd A. Castoe¹

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LB-5373

A link between acetyl-CoA metabolism and sexual commitment in Plasmodium falciparum

Barbara Stokes, Marie-Claude Lafitte, Lauriane Sollelis, Matthias Marti
University of Glasgow, Glasgow, United Kingdom

LB-5374

Understanding the role of host protein ART4 in P. falciparum invasion of red blood cells using a novel immortalized and enucleating erythroid cell line

Cyrienne Keutcha, Camila Franca, Usheer Kanjee, Manoj T. Duraisingh
Harvard T.H. Chan School of Public Health, Boston, MA, United States

LB-5375

A newly discovered An. gambiae midgut receptor AGAP008138 facilitates P. falciparum invasion and interacts with a ~34kD parasite protein

Julian Ramelow¹, Guodong Niu², Luka Kostallas³, Prem Chapagain⁴, Jun Li⁵
¹Herbert Wertheim College of Medicine Graduate Program, Florida International University, Miami, FL, United States, ²Department of Biological Sciences, Florida International University, Miami, FL, United States, ³Department of Biochemistry Undergraduate Program, Florida International University, Miami, FL, United States, ⁴Department of Physics and Biomolecular Sciences Institute, Florida International University, Miami, FL, United States, ⁵Department of Biological Sciences and Biomolecular Sciences

Institute, Florida International University, Miami, FL, United States

LB-5376

Trypanosoma congolense resistant to trypanocidal drugs homidium & diminazene & their molecular characterization in Lambwe Kenya

Ivy Okello¹, Eliakunda Mafie², Gillian Eastwood³, Jahashi Nzalawahe², Leonard Mboera⁴, Jean Hakizimana⁵, Kennedy Ogolla⁶

¹Virginia Polytechnic Institute and State University and Sokoine University of Agriculture, Blacksburg, VA, United States, ²Sokoine University of Agriculture, Morogoro, United Republic of Tanzania, ³Virginia Polytechnic Institute and State University, Blacksburg, VA, United States, ⁴SACIDS Foundation for One Health, Africa Centre of Excellence for Infectious Diseases of Humans and Animals in East and Southern Africa, Morogoro, United Republic of Tanzania, ⁵SACIDS Foundation for One Health, Africa Centre of Excellence for Infectious Diseases of Humans and Animals in East and Southern Africa, Morogoro, United Republic of Tanzania, ⁶Kenya Agricultural & Livestock Research Organization, Biotechnology Research Institute, Kikuyu, Kenya

LB-5377

CRISPR-Cas nuclease-based assays for rapid detection of malaria biomarkers: various applications of an emerging diagnostic technology

Holly Barkwill, Heather Painter
US Food & Drug Administration, Center for Biologics & Evaluation Research, Division of Bacterial, Parasitic & Allergenic Products, Office of Vaccines Research & Review, Laboratory of Mucosal Pathogens and Cellular Immunology, Silver Spring, MD, United States

LB-5378

Involvement of stress in the Schistosoma mansoni and Biomphalaria glabrata relationship and the effect of stress inhibitor drugs on the host-pathogen interaction

Oumsalama Elhelu¹, Clarence Lee¹, Matty Knight²
¹Howard University, Washington, DC, United States, ²The University of the District of Columbia, Washington, DC, United States

Poster Session C Presentations

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LB-5379

Multidiagnostic platform for molecular surveillance of tropical parasitic diseases in native communities from Amazonas, Peru

Cecilia Pajuelo-Reyes¹, Angelica Vigil-Correa¹, Luis M. Rojas², Juan R. Tejedo¹, Rafael Tapia-Limonchi³, Stella M. Chenet³

¹Universidad Nacional Toribio Rodriguez de Mendoza, Chachapoyas, Peru, ²Laboratorio Referencial, Dirección Regional de Salud de Amazonas, Chachapoyas, Peru, ³INICIB, Universidad Ricardo Palma, Lima, Peru

LB-5380

Synthetic peptides candidates for serological detection of *Trypanosoma cruzi*

Ceili M. Zuta-Chamoli¹, Maria E. Melo², Vanessa Gomes-Fraga², Ricardo A. Machado-de-Ávila³, Carlos Chávez-Olorteguí², Stella M. Chenet¹, Juan Tejedo¹, Rafael Tapia-Limonchi¹

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LB-5381

Highly activated, inflammatory CD8⁺ T-cells bearing the gamma-delta T-cell receptor are associated with severity of Chagas disease cardiomyopathy.

Walderez O. Dutra, Pedro Paulo Lucinda, Eula Neves, Carolina Koh, Juliana Estanislau, Nayara Medeiros, Silvana Araujo, Kenneth Gollob, Maria do Carmo Nunes UFMG, Belo Horizonte, MG, Brazil

LB-5382

Atypical presentation of *Anaplasma phagocytophilum* and Lyme disease co-infection in a pediatric patient: CASE REPORT in the United States

Kiriam Escobar Lee¹, Brenda I. Anosike²
¹Department of Pediatrics, Children's Hospital at Montefiore, Albert Einstein College of Medicine, Bronx, NY, United States, ²Department of Pediatrics,

Children's Hospital at Montefiore, Albert Einstein College of Medicine, Antimicrobial Stewardship program, Division of Pediatric Infectious Diseases, Bronx, NY, United States

LB-5383

Examining seasonal variation in *Plasmodium* infection and GSTe2 insecticide resistance allele rates in *Anopheles funestus* mosquitoes from Nchelenge District, Zambia

Paprika Berry, Mary E. Gebhardt, Hannah Markle, Erin Barnett, Douglas E. Norris, William J. Moss Johns Hopkins Bloomberg school of Public Health, Baltimore, MD, United States

LB-5384

Increasing the Usability of Disease Forecasts through Efficient Workflows and Effective Reports: Redesigning the ArboMAP West Nile Virus Forecasting System

Dawn M. Nekorchuk¹, Anita Bharadwaja², Julia Field³, Caio Martinelle B. de França⁴, Kimberly Signs³, Sean Simonson⁵, Michael C. Wimberly¹

¹University of Oklahoma, Norman, OK, United States, ²South Dakota Department of Health, Sioux Falls, SD, United States, ³Michigan Department of Health and Human Services, Lansing, MI, United States, ⁴Southern Nazarene University, Bethany, OK, United States, ⁵Louisiana Department of Health, New Orleans, LA, United States

LB-5385

***Wolbachia*-infected *Aedes aegypti* as potential alternatives to insecticide-based dengue control methods in Dhaka, Bangladesh**

Hasan Mohammad Al-Amin¹, Leon E. Hugo¹, Mohammad Shafiul Alam², Nigel W. Beebe³, Gregor J. Devine¹

¹QIMR Berghofer Medical Research Institute, Brisbane, Australia, ²International Centre for Diarrhoeal Diseases Research, Bangladesh (icddr,b), Dhaka, Bangladesh, ³The University of Queensland, Brisbane, Australia

LB-5386

***Wolbachia*-based population suppression through male-biased release**

Andrew Xi, Meichun Zhang, Qiang Sun, Moxun Tang, Zhiyong Xi
Michigan State University, East Lansing, MI, United States

Poster Session C Presentations

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LB-5387

The mosquito abatement district learning tours: Lessons from the American mosquito control model

Elijah Juma

Pan-African Mosquito Control Association, Nairobi, Kenya

LB-5388

The Personal Insect Repellent Kit (PIRK), a promising new passive device for tick control.

Maria V. Murgia¹, Laurie Widder², Catherine A. Hill¹
¹Purdue University, West Lafayette, IN, United States, ²Widder Bros. Inc., New York, NY, United States

LB-5389

A synthetic hydrogel-based system to study mosquito blood acquisition and saliva deposition

Jane E. deVerges¹, Kevin D. Janson², Brendan H. Carter¹, Samuel B. Jameson¹, Erika S. Dalliance¹, Madison K. Royse², Paul Kim², Omid Veisheh², Dawn M. Wesson¹
¹Tulane University, New Orleans, LA, United States, ²Rice University, Houston, TX, United States

LB-5390

Impact, Healthcare Utilization, and Costs of Travel-Associated Arthropod-borne Diseases in International Travelers: A Prospective Study

Yesim Tozan¹, Tyler Y. Headley², Emilie Javelle³, Philippe Gautret³, Martin Grobusch⁴, Lin Hwei Chen⁵, Marta Diez Menendez⁶, Lucia Moro⁷, Federico Gobbi⁷, Adrián Sánchez⁸, Brad Connor⁹, Alberto Matteelli¹⁰, Verena Crosato¹¹, Ralph Huits¹², Michael Libman¹³, Davidson H. Hamer¹⁴
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University Hospital, Barcelona, Spain, ⁹Weill Cornell Medicine and the New York Center for Travel and Tropical Medicine, New York, NY, United States, ¹⁰Clinic of Infectious and Tropical Diseases, University of Brescia, and District Health Department, Brescia, Italy, ¹¹Department of Infectious and Tropical Diseases, University of Brescia and ASST Spedali Civili of Brescia, Brescia, Italy, ¹²Department of Infectious Tropical Diseases and Microbiology, IRCCS Sacro Cuore Don Calabria Hospital, Negrar di Valpolicella, Verona, Italy, ¹³J.D. MacLean Centre for Tropical Diseases, Montreal, QC, Canada, ¹⁴Boston University School of Public Health, Boston, MA, United States

LB-5391

Reduced sampling diminishes the cost of minimally invasive autopsy in stillbirths with no effect on accuracy

Jaume Ordi¹, Natalia Rakislova¹, Lorena Marimon¹, Fabiola Fernandes², Miguel Martínez¹, Juan Carlos Hurtado¹, Cesaltina Lorenzoni², Mamudo R Ismail², Carla Carrilho², Quique Bassat¹, Clara Menéndez¹
¹Barcelona Institute for Global Health, Barcelona, Spain, ²Maputo Central Hospital, Maputo, Mozambique

LB-5392

Optimizing the diagnosis of Meningitis

Alfredo Juan Chiappe¹, Juan Carlos Gómez de la Torre², Juan Jose Montenegro-Idrogo¹, Nicanor Mori³, Lizzet Martínez-Dionisio⁴, Luis Alvarado², Renee Newby⁵, Joseph Zunt⁶, Jaime Soria⁷
¹Hospital Nacional Dos de Mayo, Lima, Peru, ²Laboratorio ROE, Lima, Peru, ³Hospital Nacional Daniel Alcides Carrión, Callao, Peru, ⁴Hospital María Auxiliadora, Lima, Peru, ⁵Kaiser Permanente Santa Clara Department of Internal Medicine, Santa Clara, CA, United States, ⁶University of Washington, Seattle, WA, United States, ⁷University of Kentucky, Lexington, KY, United States

LB-5393

Establishing a Memorandum of Understanding to Build More Equitable Research Partnerships With Ebola Survivors in Kenema, Sierra Leone

Nicolette A. Konze¹, Dauda M. Fullah², Jenna N. Bates³, Fudia Sesay², Allieu M. Sheriff², Mohamed S. Bereteh⁴, Hawa Jalloh², Alpha Kallon², Abdulai Kamara⁴, Fatima K. Kamara², Edith M. Koroma², Doris M. Lansana², Siamator Mabay², Margaret McCarthy², Tamecia D. Moore¹, Morie Samai², Nubaha Sayeed¹, Mohamed S. Yillah², Lina M. Moses¹
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Poster Session C Presentations

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LB-5394

Integrating RDT testing in routine cholera surveillance- insights from Democratic Republic of Congo and Bangladesh

Juan Dent Hulse¹, Espoir B. Malembaka¹, Taufiqul Islam², Patrick Bugeme M. Bugeme¹, Ashraf I. Khan², Chloe Hutchins³, Taufiq R. Bhuiyan², Jacqueline Knee³, Justin Lessler⁴, Ishtiakul I. Khan², Karin Gallandat³, Aybüke Koyuncu¹, Sonia T. Hegde¹, Oliver Cumming³, Placide O. Welo⁵, Firdausi Qadri², Andrew S. Azman¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³London School of Hygiene and Tropical Medicine, London, United Kingdom, ⁴University of North Carolina, Chapel Hill, Chapel Hill, NC, United States, ⁵PNECHOL-MD, Community IMCI, Ministry of Health, Kinshasa, Democratic Republic of the Congo

LB-5395

Ethics pertaining to geospatial analysis and its operationalization for public health campaigns: individual confidentiality and community-level stigma

Christina Riley¹, Anna Winters¹, Frazer Bwalya¹, Natalia Blanco Herrera², Manhattan Charurat², Kristen Stafford², Chenfeng Xiong³, Keymanthri Moodley⁴, Alash'le Abimiku⁵

¹Akros, Lusaka, Zambia, ²Institute of Human Virology, University of Maryland School of Medicine, Baltimore, MD, United States, ³University of Maryland, College Park, MD, United States, ⁴Stellenbosch University, Stellenbosch, South Africa, ⁵Institute of Human Virology, Nigeria, Abuja, Nigeria

LB-5396

Extraction free direct detection of monkeypox virus using a field portable thermocycler and real time - PCR assay

Neeraja Venkateswaran, Rebecca Matlick, Sheila Diepold, Kodumudi S. Venkateswaran, William M. Nelson
Tetracore, Inc., Rockville, MD, United States

LB-5397

Gender, equity, and social inclusion (GESI) integration into the Tanzania Neglected Tropical Diseases Control Programme: learning

and experiences from Mlimba District Council (DC)

Isaac Njau¹, George Kabona¹, USAID's Act to End NTDs | East Program²

¹Tanzania Neglected Tropical Disease Control Program, Dodoma, United Republic of Tanzania

LB-5398

Assessment of Immune Responses to Whole Cell and Acellular Pertussis Vaccines in Healthy Infants in Peru Using RNA-seq and Ribosome Profiling

Mariana Leguia¹, Diana Juarez¹, Alejandra Garcia-Glaessner¹, Anton Vila-Sanjurjo², Claudio Lanata³, Ana Gil³, Mayita Alvarez³, Rubelio Cornejo³, Johannes Goll⁴, Will Hooper⁴, Casey Gelber⁴, Leigh Howard⁵, Natalia Jimenez⁵, Kathryn Edwards⁵, Buddy Creech⁵

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LB-5399

Leveraging Evolving Technologies: A Hybrid Approach

Mariam Lule Namaweje, Christopher Whalen, Michael Holdsworth, Bajwa Kanwaldeep, Sara Rudolph, Michael Tartakovsky
National Institutes of Allergy and Infectious Diseases, Rockville, MD, United States

LB-5400

Perceptions toward COVID-19 Vaccines and Factors Associated with Vaccine Acceptance in Khyber Pakhtunkhwa, Pakistan

Zawar Ali¹, Shiromi M. Perera¹, Stephanie C. Garbern², Ghazi Khan³, Khalid Rehman⁴, Bhasham Kotak³, Javed Ali¹

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Poster Session C Presentations

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LB-5401

Advancement of computer vision methods for identification of mosquito and tick vector species

Adam Goodwin¹, Roy Faiman¹, Jewell Brey¹, Sanket Padmanabhan¹, Ghnana Madineni¹, Margaret Glancey¹, Yvonne Linton², Nicole Achee³, John Grieco³, Le Jiang⁴, Tristan Ford¹

¹Vectech, Baltimore, MD, United States, ²Walter Reed Biosystematics Unit, Suitland, MD, United States, ³Notre Dame, South Bend, IN, United States, ⁴Naval Medical Research Center, Silver Spring, MD, United States

LB-5402

A spatial analysis of geographic access to public healthcare facilities in Côte d'Ivoire

Gaëlle Tatiana Sehi¹, Peter M. Macharia², Clarisse A. Hounbedji³, Daniel M. Parker¹

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LB-5403

Mitigating COVID-19 risk in refugee settlements: a qualitative assessment of the lived experience of refugees in Uganda

Robin E. Klabbers¹, Timothy R. Muwonge², Scovia Ajiduru², Rosalind Parkes-Ratanshi³, Phuong Pham⁴, Patrick Vinck⁴, Kelli N. O'Laughlin¹

¹University of Washington, Seattle, WA, United States, ²Infectious Diseases Institute Makerere University, Kampala, Uganda, ³University of Cambridge, Cambridge, United Kingdom, ⁴Harvard University, Cambridge, MA, United States

LB-5404

Identifying gut tissue specific metabolite flux in Pakistani children with environmental enteropathy via contextualized metabolic network modeling

Sana Syed¹, Najeeha T. Iqbal², Kamran Sadiq², Junaid Iqbal², Maryam Hassan¹, Fatima Zulqarnain¹, Philip Fernandes¹, Yash Sharma¹, Fayaz Umran², Sheraz Ahmed², Elizabeth A. Mair³, Lee A. Denson⁴, Yael Haberman⁴, Shahida Qureshi², Asad Ali², Sean Moore¹
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Pakistan, ³Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States, ⁴Cincinnati Children's Hospital Medical Center, Cincinnati, OH, United States

LB-5405

Host-response Transcriptional Biomarkers Accurately Discriminate Bacterial and Viral Infections of Global Relevance

Christopher W. Woods

Duke University Medical Center, Durham, NC, United States

LB-5406

Towards Chagas disease elimination in Guatemala through community engagement and intersectoral collaboration

Margarita Rivera-Arrivillaga¹, **Elizabeth Pellecer Rivera**², José G. Juárez¹, Celia Cerdón-Rosales¹, Pamela M. Pennington¹

¹Universidad del Valle de Guatemala, Guatemala, Guatemala, ²University of Maine, Orono, ME, United States

LB-5407

Evaluation of Gazelle for Point of Care screening of Sickle Cell Disease in Eastern Nigeria

Edward C. Nwanegbo¹, Olivia Mgbemena¹, Cynthia Ndiokwere¹, Anthony Anyanwu², Ijeoma Duru¹, Kelechi Odinaka², TC Ezeofor², Ikechukwu Anyiam³, Jude N. Okoyeh⁴, Stephen Obaro⁵

¹Tropical Disease Intervention Initiative, Owerri, Nigeria, ²Federal Medical Center Owerri, Owerri, Nigeria, ³Comfort Medicare, Owerri, Nigeria, ⁴Neumann University, Aston, PA, United States, ⁵University of Nebraska Medical Center, Omaha, NE, United States

LB-5408

Social status matters: the relationships between inflammatory cytokines, DHEA-S, and cognitive development among children in Philippines

Yeonjin Lee¹, Sangshin Park², Emily McDonald³, Christopher Barry³, Fusun Gundogan³, Veronica Tallo⁴, Mario Jiz⁴, Jonathan D. Kurtis³, Jennifer F. Friedman³
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Poster Session C Presentations

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LB-5409

Identifying Biomarkers to Predict Severe Febrile Illness Outcomes in Tanzanian Children: A Pilot Study

Mai Baalbaki¹, Chayse Jones², Raya Y. Mussa³, Joel Manyahi³, Hendry R. Sawe³, Michael Matthay⁴, Teresa Bleakly Kortz⁵

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LB-5410

Using qualitative methods to establish factors contributing to trachoma recrudescence and low mass drug administration (MDA) coverage in Amudat district

Joyce Achan¹, Stephen Begumisa¹, Gilbert Baayenda², Stella Agunyo¹, Elizabeth Plunkett³, Elizabeth Sutherland³, Jeremiah Ngondi³, S. Elimu⁴, Raphael Opon², Edwin Mayoki¹, Edridah Muheki², Alfred Mubangizi²

¹RTI International, Kampala, Uganda, ²Ministry of Health, Kampala, Uganda, ³RTI International, Washington, DC, United States, ⁴Amudat District Local Government, Amudat, Uganda

LB-5411

Elimination of Lymphatic Filariasis in India - Why morbidity management and disability prevention pillar lagging behind?

Susanta KUMar Ghosh¹, Chaitali Ghosh², Sagya Singh³, **Pradeep Kumar Srivastava**⁴

¹ICMR-National Institute of Malaria Research, Bangalore, India, ²Tata Institute for Genetics and Society, Bangalore, India, ³NVBDCP, Ranchi, Jharkhand, India, ⁴NVBDCP, Delhi, India

LB-5412

Microbial Community Distribution and Core Microbiome in Graded Buruli ulcer and Chronic Tropical wounds

Michael Frimpong¹, Allie Kreitman¹, Bernadette Agbavor², Olivia Dornu², Richard Phillips², Elodie Ghedin¹

¹Systems Genomics Section, Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²Kumasi Centre for Collaborative Research, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

LB-5413

High onchocerciasis-associated morbidity despite 9 years of MDA in an isolated village in Nord Ubangi Province, in the Democratic Republic of the Congo

Michel Mandro-Ndahura¹, Felix Makangila², Robert Colebunders³, Nick Burn⁴, Kelly Yotebieng⁴, Crispin Koba¹, Theo Bongu⁵, Tony Ukety⁶, Jean Safari¹, Thierry Bobanga⁷, Girija Sankar¹

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LB-5414

Role of Social Mobilization Platforms in Improving Directly Observed Therapy during Mass Drug Administration: Learning from Odisha, India.

Rajshree Das, Kiran Agrahari, Ranpal Singh, Shourya Patel, Sudipta Mondal
Project Concern International-India, New Delhi, India

Poster Session C Presentations

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LB-5415

Community Reporting of Chirimachas (*Triatoma infestans*) in Arequipa, Peru: Capability, Opportunity, Motivation & Behavior

Zoe A. Sanchez¹, Raquel Gonçalves², Laura Tamayo², Carlos Condori², Lina Mollesaca², Oswaldo Cornejo², Manuel Ysidro², Roger Quispe², Miguel Alarcon², Ricardo Castillo³, Michael Z. Levy³, Valerie Paz-Soldan¹

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LB-5416

Nationwide assessment of entomological risk factors of dengue and other arboviruses outbreaks in Burkina Faso

Hyacinthe K. TOE¹, Antoine Sanou¹, Soumanaba Zongo¹, Alphonse Traoré¹, Madou Tapsoba¹, Pierre Ouedraogo¹, Siaka Débé¹, Clarisse Bougouma², Seydou Ouattara³, Issaie Medah³, Adama Gansané¹, Moussa W. Guelbéogo¹

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LB-5417

Evolution of trachomatous trichiasis surgery strategies from 2015 to 2021 to eliminate trachoma as a public health problem in Niger

Kadri Boubacar¹, **Hadiara Adamou**², Tchouloum Toudja², Youssouf Yaye², Mohamed Lamine Yattara², Abdou Amza¹, Cleo Stern³, Nadia Ben Meriem³, Steven D. Reid², Angela Weaver³

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LB-5418

TREATMENT ADHERENCE STRATEGY FOR CONGENITAL CHAGAS IN BOLIVIA

María del Carmen Mendiña¹, Freddy Tinajeros², Federico Urquiza¹, Edith Malaga³, Manuela Verastegui³, Natalie Bowman⁴, Robert Gilman⁵

¹Percy Boland Womens Hospital, Santa Cruz, Plurinational State of Bolivia, ²PRISMA-Johns Hopkins University, Santa Cruz, Plurinational State of Bolivia, ³Universidad Peruana Cayetano Heredia, Lima, Peru, ⁴University of North Carolina, North Carolina, NC, United States, ⁵Johns Hopkins University, Baltimore, MD, United States

LB-5419

Evaluation of Dual-Antigen Nanoparticle Vaccine Candidates for Scrub Typhus

Jaeyoung Park¹, Zhiwen Zhang², Tatyana Belinskaya², **Le Jiang**², Julie Champion¹, Chien-Chung Chao²

¹Georgia Institute of Technology, Atlanta, GA, United States, ²Naval Medical Research Center, Silver Spring, MD, United States

LB-5420

Observational analysis to evaluate the impact of new nets in Rwanda: Epidemiological results from piloted new net distributions

Kenzie Tynuv¹, Joseph Singirankabo², Aline Uwimana³, Michee Kabera³, Yvette Muyirukazi³, Christen Fornadel⁴, **Julia Mwesigwa**⁵, Joseph Wagman¹, Aimable Mbituyumuremyi³

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LB-5421

Evolution of spatial and demographic risk of malaria infection following a three-month chemoprevention program in response to severe flooding in rural western Uganda

Erin Xu¹, Varun Goel², Emma Baguma³, Brandon D. Hollingsworth⁴, Amanda Brown-Marusiak⁵, Raquel Reyes⁶, Moses Ntaro³, Edgar M. Mulogo³, Ross M. Boyce⁴

¹UNC School of Medicine, Chapel Hill, NC, United States, ²Department of Geography, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ³Department of Community Health, Faculty of Medicine, Mbarara University of Science & Technology, Mbarara, Uganda, ⁴Institute for Global Health and Infectious Diseases, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ⁵Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ⁶Division of Hospital Medicine, UNC School of Medicine, Chapel Hill, NC, United States

Poster Session C Presentations

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LB-5422

Incremental cost of the switch from standard insecticide-treated nets (ITNs) to next generation ITNs: an economic evaluation

Riley Santiago¹, Peder Digre², Okefu Oyale Okoko³, Emmanuel Obi⁴, Christelle Gogue⁵, Marcy Erskine⁶, Zainab Baba Mai Ali⁶, Idrissa Cissé⁷, David Masiko⁸, Jimmy Opigo⁹, Medard Rukaari⁹, Olivier Lemba Palata¹⁰, Albert Tuyishime¹¹, Ines Juleca Antonio¹², Guira Matilibou¹³, Christen Fornadel¹⁴, Molly Robertson², Joseph Wagman⁵, Joshua Yukich¹
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LB-5423

Assessment of the Malaria Surveillance System in Nigeria

Smita Das¹, Chukwu Okoronkwo², Perpetua Uhomoibhi², Cyril Ademu², Festus Okoh², Olufemi Owoye³, Oluwabambi Tinuoye⁴, Travis Porter¹, Natalie Galles¹, Ibrahim Maikore⁵, Ime Asangans⁶, Ifeoluwa Noiki⁶, Adam Bennett¹, John Miller¹, Erin Owens¹
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LB-5424

High median life of DuraNet® brand insecticide-treated nets in Liberia: results from durability monitoring in two sites, 2018-2021

Stephen Poyer¹, Ibrahima Baber², Yemane Yihdego², Victor S. Koko³, Chrispin Williams³, Tuwuyor Belleh², Patricia Tengen⁴, Bola Olapeju⁵, Sean Blaufuss⁶,

Hannah Koenker⁷, Jessica Kafuko⁸, Tony Hughes⁹, Gabriel Ponce de León⁹, Melissa Yoshimizu¹⁰
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LB-5425

Comparison of malaria infection level in pregnant women with estimates obtained from cross-sectional surveys among children, 2020- 2022, Burkina Faso

Réné Kinda¹, Christelle Gogue², Siaka Debe¹, Adama Ganou¹, Sonia Ilboudo¹, Aldari Sagnon¹, Casimir Tarama¹, Mafama Siribie¹, Gauthier Tougri³, N'Fale Sagnon¹, Moussa W. Guelbeogo¹, Joseph Wagman², Molly Robertson⁴, Adama Gansané¹
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LB-5426

Household level protective effects of seasonal malaria chemoprevention on clinical malaria in The Gambia

Seyi Soremekun¹, Marta Moreno¹, Bakary Conteh², Abdoullah Nyass², Harouna Soumare², Blessed Etoketim¹, Mamadou Ndiath², Umberto D'Alessandro¹, Teun Bousema³, Annette Erhart², Christopher Drakeley¹
¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²MRC Gambia Unit London School of Hygiene and Tropical Medicine, Fajara, Gambia, ³Radboud University, Nijmegen, Netherlands

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LB-5427

Laboratory OTSS Plus Associated with Improved Malaria Microscopy Competency Skills in Sierra Leone

Julie Niemczura¹, Fay Chalobah², Juliet Quee², Anitta Kamara³, Ronald Carshon-Marsh³, Doris Harding⁴, Zikan Koroma⁴, Emmanuel Yamo¹, Rodgers D. Mwinga¹, Julie Buekens¹, Keith Esch⁵, Joseph Mugasa²
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LB-5428

Larviciding operation in São Tomé and Príncipe using the Zzapp mobile app: pilot results and operational lessons

arnon Moshe Houry Yafin¹, **Arbel Vigodny**¹, Alexandra Wharton Smith¹, Michael Ben Aharon¹, Lea Leiman¹, Dani Gluck¹, Feranado Braganca¹, Yonatan Fialkoff¹, Herodes Rompao², João alcantara²
¹Zzapp Malaria, Tel Aviv, Israel, ²Sao Tome, Ministry of Health, CNE, Sao Tome, Sao Tome and Principe

LB-5429

A culture-adapted Plasmodium cynomolgi Berok transgenic parasite expressing chimeric Plasmodium vivax circumsporozoite protein (CSP) for their in vitro and in vivo assessment of CSP-based interventions against P. vivax.

Maya Aleshnick¹, Charlie Jennison², Shreeya Hedge³, Judith Straimer³, Anke Harupa-Chung³, Erika Flannery³, Thomas Martinson¹, Payton Kirtley¹, Jack Schell¹, Sebastian Mikolajczak³, Ashley M. Vaughan², **Brandon Wilder**¹
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LB-5430

Forecasting need and demand for critical malaria commodities in the face of COVID-19 pandemic-related disruptions

Eliza Walwyn-Jones¹, Jessica Floyd¹, Monica Golumbeanu², Punam Amratia³, Clara Champagne², Tasmin Symons³, Salome Muchiri⁴, Nandita Jaitly¹, Abigail Ward⁵, Tara Seethaler⁵, Peter Gething³, Emilie Pothin², Aaron M. Woolsey⁵
¹Clinton Health Access Initiative, London, United Kingdom, ²Swiss Tropical and Public Health Institute, Allschwil, Switzerland, ³Malaria Atlas Project, Telethon Kid's Institute, Perth Children's Hospital, Perth, Australia, ⁴Clinton Health Access Initiative, Nairobi, Kenya, ⁵Clinton Health Access Initiative, Boston, MA, United States

LB-5431

Effects of vaccine dosing schedule and artemether-lumefantrine treatment on the immunogenicity of the transmission blocking vaccine Pfs230D1/AS01

Joel Goldberg¹, Sara Healy¹, Amatigue Zeguime², M'Bouye Doucoure², Abdoulaye Katile², Mahamadoun Hamady Assadou Maiga², Mamady Kone², Kourane Sissoko², Bourama Kamate², Bayaya Haidara², Mahamadou S. Sissoko², Irfan Zaidi¹, Justin Y A Doritchamou¹, Alemush Imeru¹, Jennifer Kwan³, Jen C. Hume¹, Issaka Sagara², Patrick E. Duffy¹
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LB-5432

Placental infection with Plasmodium vivax and P falciparum causative agents of malaria and pregnancy outcomes from Pakistan.

Najia K. Ghanchi¹, Zeeshan Uddin¹, Shiyam S. Tikmani¹, Jean Kim², Imran Ahmed¹, Afia Zafar¹, Sarah Saleem¹, Robert L. Goldenberg³, Elizabeth M. McClure²
¹Aga Khan University, Karachi, Pakistan, ²RTI International, Durham, NC, United States, ³Columbia University, New York, NY, United States

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LB-5433

Magnitude and avidity of Plasmodium falciparum circumsporozoite protein specific IgG3 vaccine-induced antibodies are higher in protected vaccinees in a Controlled Human Malaria Infection clinical trial of malaria vaccine candidate R21

Kelly E. Seaton¹, Rachel L. Spreng¹, Sir Tauria L. Hilliard¹, Alexander Carnacchi¹, Frederick D. Feely III¹, Michelle A. Rojas¹, Sarah V. Mudrak¹, Katie J. Ewer², Adrian V.S. Hill², Georgia D. Tomaras¹
¹Duke University, Durham, NC, United States, ²Jenner Institute, University of Oxford, Oxford, United Kingdom

LB-5434

Symptomatic and Asymptomatic Falciparum Malaria Infections in Zanzibar and Mainland Tanzania are Genetically Similar Both Within and Between Populations.

Sean Connelly¹, Ozkan Aydemir², Mwinyi Msellem³, Billy Ngasala⁴, David Giesbrecht², Nicholas F. Brazeau¹, Chris Hennelly⁵, Zackary Park⁵, Ulrika Morris⁶, Anders Björkman⁶, Andreas Mårtensson⁷, Jessica Lin⁵, Mohamed Al⁸, Jonathan J. Juliano⁵, Jeffrey A. Bailey²
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LB-5435

Investigating the Opportunities for Implementing Larval Source Management for Malaria Control in Rural Tanzania

Betwel John Msugupakulya¹, Prashanth Selvara², Fredros O. Okumu¹, Anne L. Wilson³
¹Environmental Health and Ecological Sciences Department, Morogoro, United Republic of Tanzania, ²Institute for Disease Modeling, Seattle, WA,

United States, ³Department of Vector Biology, Liverpool School of Tropical Medicine, Liverpool, United Kingdom

LB-5436

Investigation into platelet-monocyte aggregate formation and interactions in pediatric Cerebral Malaria.

Iset M. Vera¹, Visopo Harawa¹, Monica Soko², Priscilla Suleman², Patricia Mawindo², Terrie Taylor³, Karl Seydel³
¹University of South Florida, Dept of Internal Med, Tampa, FL, United States, ²Blantyre Malaria Project, College of Medicine, University of Malawi, Blantyre, Malawi, ³Michigan State University, Department of Osteopathic Medical Specialties/Blantyre Malaria Project, East Lansing, MI, United States

LB-5437

Phase 2a Trial of SJ733, with and without Pharmacoboosting, for P. vivax malaria

R. Kiplin Guy¹, Jared Hammill¹, Courtney Hammill¹, Alejandro Llanos-Cuenas², Fabian Gusovsky³, Jeannette Van Der Velde³, Toshiharu Yanagi⁴, Noritsugu Maki⁴
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LB-5438

Identifying serological markers of recent Plasmodium falciparum exposure for precision malaria surveillance

Joanna Vinden¹, Inna Gerlovina¹, Sophia Maxfield¹, Charles Le¹, Kevin Tetteh², Isaac Sswenyana³, Yaobao Liu⁴, Jun Cao⁴, Christopher King⁵, Lenore Carias⁵, Frances Ndungu⁶, Rie Nakajima⁷, Aarti Jain⁷, Chris Drakeley², Phil Felgner⁷, Grant Dorsey¹, Moses Kanya⁸, Ivo Mueller⁹, Isabel Rodriguez-Barraquer¹, Bryan Greenhouse¹
¹UCSF, San Francisco, CA, United States, ²London School of Tropical Medicine & Hygiene, London, United Kingdom, ³Central Public Health Laboratories of the Republic of Uganda, Kampala, Uganda, ⁴Jiangsu Institute of Parasitic Diseases, Wuxi, China, ⁵Case Western Reserve University, Cleveland, OH, United States, ⁶KEMRI-Wellcome Trust Collaborative Programme, Kilifi, Kenya, ⁷UC Irvine, Irvine, CA, United States, ⁸Makerere University, Kampala, Uganda, ⁹The Walter and Eliza Hall Institute, Melbourne, Australia

Poster Session C Presentations

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LB-5439**Rapid Assessment of the Expansion of artemisinin-resistant Plasmodium falciparum kelch13 R561H and first report of G449A in Rwanda using Pooled Nanopore Amplicon Sequencing**

Neeva Wernsman Young¹, Pierre Gashema², Rebecca Kirby¹, David Giesbrecht¹, Tharcisse Munyaneza³, Jean de Dieu Tuyishime², Jonathan J. Juliano⁴, Jeffrey Bailey¹, Corine Karema⁵, Jean-Baptiste Mazarati²

¹Brown University, Providence, RI, United States, ²INES-Ruhengeri, Ruhengeri, Rwanda, ³National Reference Laboratory, Rwanda Biomedical Center, Kigali, Rwanda, ⁴University of North Carolina - Chapel Hill, Chapel Hill, NC, United States, ⁵Quality Equity Health Care, Kigali, Rwanda

LB-5440**Malaria parasitemia is common during pregnancy despite frequent presumptive sulfadoxine-pyrimethamine treatments in Ouélessébougou, Mali.****Aye Diallo**

NIH, Bethesda, MD, United States

LB-5441**ENTOMOLOGICAL MALARIA ASSESSMENT IN KINSHASA, DEMOCRATIC REPUBLIC OF THE CONGO**

Iengu T. BOBANGA¹, Pitshou N. Mampuya¹, Cedric Vulu¹, Melchior Kashamuka², Joseph Atibu², jonathan J. Juliano³, Michael Emch³, Rhoel Dinglasan⁴, Kristin Banek³, Ruthly Francois³, jonathan Parr³, Seth Irish⁵, Antoinette Tshetu⁶

¹university of Kinshasa, Kinshasa, Democratic Republic of the Congo, ²university of Kinshasa, SPHK, Kinshasa, Democratic Republic of the Congo, ³university of North Carolina, Chapel Hill, NC, United States, ⁴University of Florida, Miami, FL, United States, ⁵Swiss tropical institute, Bale, Switzerland, ⁶university of Kinshasa; SPHK, Kinshasa, Democratic Republic of the Congo

LB-5442**Malaria case management within integrated services improves reach of quality malaria care in Northern Nigeria**

Chinwoke Isiguzo¹, Yusuf Suraj², Rachael Hampshire¹, Abdulrasheed Aliyu³, Marta Levitt⁴
¹Palladium, Washington, DC, United States, ²Palladium, Sokoto, Nigeria, ³Palladium, Kebbi, Nigeria, ⁴Palladium, Abuja, Nigeria

LB-5443**A method for the detection of fine scale transmission network structure from genetic, epidemiological, and spatio-temporal data**

Maxwell Murphy¹, Eric Neubauer Vickers¹, Andres Aranda-Diaz¹, Bakary Conteh², Abdullahi Ahmad², Mamadou Ousmane Ndiath², Umberto D'Alessandro², Annette Erhart², Marta Moreno³, Chris Drakely¹, Teun Bousema⁴, Rasmus Nielsen⁵, Bryan Greenhouse¹
¹EPPICenter research program, Division of HIV, ID and Global Medicine, Department of Medicine, University of California, San Francisco, CA, United States, ²Medical Research Council Unit The Gambia at the London School of Hygiene and Tropical Medicine, Fajara, Gambia, ³Department of Infection Biology, London School of Hygiene and Tropical Medicine, London, United Kingdom, ⁴Radboud Institute for Health Sciences, Radboud University Medical Center, Nijmegen, Netherlands, ⁵Department of Integrative Biology and Statistics, University of California, Berkeley, CA, United States

LB-5444**Last Kilometer Care: Building Powerful Partnerships to Eliminate Malaria**

Busiku Hamainza¹, Wongani Zulu², William Feldt³, Daniel Perlman⁴, William Hammond⁴, Derick Pasternak⁴, Wendy Thanassi⁴, Martha Lungu⁵, Abigail Pratt⁶, Robert Porter⁴

¹National Malaria Elimination Centre, Lusaka, Zambia, ²World Vision, Lusaka, Zambia, ³Malaria Partners International & Partners for a Malaria-Free Zambia, Seattle, WA, United States, ⁴Malaria Partners International, Seattle, WA, United States, ⁵Malaria Partners Zambia, Lusaka, Zambia, ⁶Bill and Melinda Gates Foundation, Seattle, WA, United States

LB-5445**Expression of BAFF and BAFF Receptors in dual infection with Epstein Barr Virus and Plasmodium falciparum malaria and the implications on the pathogenesis of endemic Burkitt's Lymphoma**

Bonface Ariera, ROSEMARY RORCHFORD, sidney ogolla
University of Colorado Anschutz medical campus, Aurora, CO, United States

Poster Session C Presentations

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LB-5446

Short-term impact of mass drug administration with dihydroartemisinin-piperazine and primaquine on malaria incidence in southern Senegal

Elhadji Konko Cire Ba¹, **Michelle E. Roh**², Abdoulaye Diallo¹, Tidiane Gadiaga³, Amadou Seck¹, Sylla Thiam¹, Seynabou Gaye⁴, Ibrahima Diallo⁴, Aminata Colle Lo¹, Elhadji Diouf¹, Omar Gallo Ba¹, Alioune Badara Gueye⁵, Paul Milligan⁶, Ari Fogelson⁶, Xue Wu², Tabitha Kibuka², Moustapha Hama², Julie Thwing⁷, Adam Bennett², Roly Gosling⁸, Jimée Hwang⁹, Doudou Sene⁴, Fatou Ba⁴, Bayal Cisse³, Katharine Sturm-Ramirez¹⁰, Michelle Hsiang², Jean Louis Ndiaye¹

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LB-5447

A Meta-Analysis of Immunogenicity of Pre-erythrocytic Malaria Antigen CeITOS in Mice

Elke Bergmann-Leitner, **Evelina Angov**
Walter Reed Army Institute of Research, Silver Spring, MD, United States

LB-5448

A single case of Leptospirosis during the War in Ukraine

Olena Zubach¹, Iryna Pestushko², Yulia Dliaboha³, Oksana Semenyshyn⁴
¹Danylo Halytsky Lviv National Medical University, Lviv, Ukraine, ²Lviv Clinical Hospital of Infectious Diseases, Lviv, Ukraine, ³First Medical Union Lviv Clinical Emergency Hospital, Lviv, Ukraine, ⁴State Institute Lviv Oblast Centre for Diseases Control and Prevention MOH, Lviv, Ukraine

LB-5449

Active Surveillance on the Prevalence of Alpha-gal (galactose-alpha-1,3-galactose) Syndrome in Middle Tennessee

Kevin Liu¹, **Rachel Wofford**², Dawn Newcomb¹, Cosby Stone¹, Abelardo C. Moncayo²
¹Vanderbilt University Medical Center, Nashville, TN, United States, ²Tennessee Department of Health, Nashville, TN, United States

LB-5450

Life-cycle Analysis of a clinical malaria trial in Mali highlights a large carbon footprint associated with electricity use and identifies immediate opportunities for sustainable improvement

Merel Smit¹, Almahamoudou Mahamar², Koualy Sanogo², Patrick W. Okedy², Mohamed A. Yehia², Will Stone³, Chris Drakeley³, Hugo Touw¹, Jeroen Dobbelaere⁴, Martin Farley⁵, Alassane Dicko², **Teun Bousema**¹, Tim Stobernack¹
¹Radboudumc, Nijmegen, Netherlands, ²MRTC, Bamako, Mali, ³LSHTM, London, United Kingdom, ⁴University of Vienna, Vienna, Austria, ⁵UCL, London, United Kingdom

LB-5451

South Carolina ticks do not demonstrate classic 'host specialization' blood feeding patterns: Ticks collected from dogs presenting at animal humane shelters test positive for human blood meals

Laura Witt, Melissa Nolan, Kyndall Dye-Braumuller, Kia Zellars, Lauren Turner
University of South Carolina, Columbia, SC, United States

LB-5452

Estimation of Tularemia Epizootic Process in Kharkiv Oblast for Predicting the Epidemic Situation

Liudmyla Kylypko, Lyubov Makhota, Hanna Sukhorukova, Hennadii Tkach, Yevgenia Semerynska, Valentina Stadnik
Kharkiv Center for Disease Control and Prevention of the Ministry of Health of Ukraine, Kharkiv, Ukraine

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LB-5453

One Health Activities to Reinforce Intersectoral Coordination at Local Levels in India

Jessica Taaffe¹, Rajnish Sharma², Aravindh B. Parthiban³, Jaswinder Singh², Paviter Kaur², Balbir Dhaliwal², JPS Gill², Dhinakar Raj³, Navneet Dhand¹, Falgunee K. Parekh¹
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LB-5454

Chikungunya Viral Kinetics in Human Induced Pluripotent Stem Cell Derived Cardiomyocytes

Elizabeth M. Traverse, Hannah K. Hopkins, Kelli L. Barr
University of South Florida, Tampa, FL, United States

LB-5455

Modeling Chikungunya Virus Pathogenesis in Cerebral Organoids Derived from Human Induced Pluripotent Stem Cells

Hannah K. Hopkins, Elizabeth M. Traverse, Kelli L. Barr
University of South Florida, Tampa, FL, United States

LB-5456

Integrating multiple knowledge systems in zoonotic disease research: a case study of non-human primate filariasis in Guyana

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LB-5457

Causes of Changes in the Etiological Structure of Leptospirosis in Kharkiv Oblast for 1978-2018

Hennadii Tkach, Lyubov Makhota, Yevgenia Semerynska, Valentina Stadnik, Liudmyla Kylypko
Kharkiv Center for Disease Control and Prevention of the Ministry of Health of Ukraine, Kharkiv, Ukraine

LB-5458

Q Fever Serological Monitoring in Farm Animals in Ukraine

Liudmyla Dedok, **Ivan Polupan**, Olha Chechet, Olha Haidei
State Scientific Research Institute of Laboratory Diagnostics and Veterinary and Sanitary Expertise, Kyiv, Ukraine

LB-5459

SC Tick Surveillance: Asian Longhorned Tick study and findings.

Titilayomi Sarah Abiodun, Melissa Nolan, Kyndall Dye-Braumuller, Lidia Gual-Gonzalez, Kia Zellars, Meyer, Meyer, Christopher Evans
University Of South Carolina, Columbia, SC, United States

LB-5460

Florida Kissing Bugs Invade Homes, Feed on Diverse Hosts, and Harbor Trypanosoma cruzi

Norman L. Beatty¹, Chanakya R. Bhosale², Zoe S. White², Carson W. Torhorst², Kristen N. Wilson², Rayann Dorleans², Tanise M.S. Stenn³, Keswick Killets⁴, Rachel Curtis-Robles⁴, Nathan Burkett-Cadena³, Eva Novákova⁵, Gabriel L. Hamer⁴, Sarah A. Hamer⁴, Samantha M. Wisely²
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Poster Session C Presentations

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LB-5461

Drug trafficking and mosquitoes - arbovirus presence in a 'protected' region of Northern Guatemala undergoing rapid deforestation

Gillian Eastwood¹, Alexandra Cumbie¹, Manuel Barrios-Izas²

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LB-5462

Development and validation of a novel and smart Point of Need Reader for rapid detection of multiple biothreat agents

Kodumudi S. Venkateswaran, Jawad Sarwar, Neeraja Venkateswaran, Alex Del Signore, Thomas W. O'Brien, William M. Nelson
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LB-5463

A Systematic Review of Female Reproductive Health Symptoms Following Ebola and Lassa Fever Infection

Crystal Zheng, Madison Drogy, Celia Glezer, Emily Engel, Nell Bond, Keith Pickett, John Schieffelin
Tulane University, New Orleans, LA, United States

LB-5464

Immunogenicity and Safety of a Purified Vero Rabies Vaccine - Serum Free in Comparison with two licensed vaccines, in a Simulated Rabies Post-exposure Regimen in Healthy Adults in France

Andrea C. Pineda-Pena¹, Qian Jiang², Celine Petit¹, Joanna Korejwo¹, Yves Donazzolo³, Mathilde Latreille³, Marie-Claude Homery⁴, Sylvie Pichon¹, Françoise Guinet-Morlot¹, Ada-Maria Minutello¹
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LB-5465

Added value of multiplex serology in Monkeypox outbreak investigation in the Democratic Republic of Congo

Eddy K. Lusamaki¹, Adrienne A. Amuri¹, Lionel Baketana¹, Nicolas Fernandez², Emmanuel L. Lokilo¹, Antoine N. Nkuba¹, Catherine B. Pratt³, Gradi N. Luakanda¹, Elisabeth S. Pukuta¹, Elisabeth Muyamuna¹, Jean-Claude C. Makangara¹, Thierry Kalondji⁴, Justin Masumu¹, Michael R. Wiley³, Ahidjo Ayouba², Jean-Jacques T. Muyembe¹, Placide K. Mbala¹, Martine Peeters², Steve M. Ahuka¹, Eric Delaporte²
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LB-5466

New Challenges Facing Us Today: Occurrence of New Acute Hepatitis of Unknown Origin in the World

Maryna Railyan, Viktor Siemishev, Tetiana Chumachenko
Kharkiv National Medical University, Kharkiv, Ukraine

LB-5467

A novel flow cytometry assay for quantification of antibody-dependent cellular cytotoxicity

Melody J. Morwitzer, Ying Yi Zheng, Mary Masterson, Heather Friberg, Jeffrey R. Currier
Walter Reed Army Institute of Research, Silver Spring, MD, United States

LB-5468

Evaluation of a Novel Multiplex Serologic Assay for Detecting IgG-class Antibodies to Select Arboviruses

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Poster Session C Presentations

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LB-5469

Antibody Fc biophysical features and effector functions are associated with protection from dengue severe disease

Antonio Gregorio Dias Junior¹, José Victor Zambrana², Elias Duarte¹, Sandra Bos¹, Vicky Roy³, Leah Katzelnick⁴, Rosie Aogo⁴, Guillermina Kuan⁵, Angel Balmaseda⁶, Galit Alter³, **Eva Harris**¹

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LB-5470

First-ever outbreak of Marburg virus disease declared in Ghana

Joseph Humphrey Kofi Bonney¹, Patience Lartekai Adams¹, Bright Adu¹, Ivy Asantewa Asante¹, Evelyn Yayra Bonney¹, Deborah Pratt¹, Evangelin Obodai¹, Prince Ketorwoley¹, Mildred Tublu¹, Stella Bour¹, Dennis Laryea², Franklin Asiedu-Bekoe², George Boateng Kyei¹, Sally Ann Ohene³, Gifty Boateng¹, John Kofi Odoom¹, Dorothy Yeboah-Manu¹

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LB-5471

First cases of Monkeypox virus recorded in Ghana

Deborah Pratt

Noguchi Memorial Institute for Medical Research, Accra, Ghana

LB-5472

Acceptability of a Hypothetical Dengue Vaccine and the Potential Impact on Individual Vector Control Behavior in Fortaleza, Brazil

Valerie K. Scott¹, Maria Suely Nogueira Pinheiro², Marcia Machado², Marcia Castro¹

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LB-5473

Dengue virus sequencing with the Oxford Nanopore MinION and benchmarking intrahost mutations for precision tracing of transmission

Matthew Conte¹, Jennifer Potter-Birriel¹, David Barvir¹, Gregory Gromowski¹, Jun Hang¹, Henrik Salje²

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LB-5474

Evidence of Guaroa virus exposure in residents of Cauca, Colombia. 2018

Leidy Yoana Acevedo-Gutiérrez¹, Diana P. Fernandez¹, Marylin Hidalgo², Paola Betancourt-Ruiz², Juliana Gil-Mora², Heidi C. Martinez-Diaz², Luz A. Olaya³, Patricia V. Aguilar¹

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LB-5475

A Literature Review of the Clinical Accuracy of Hepatitis E Diagnostics

Abigail Bernasconi¹, Md Koushik Ahmed², Amanda Debes¹, **Brittany Kmush**²

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LB-5476

Development of subclade targeted Enterovirus D68 replicon RNA vaccines

Nikole L. Warner, Jacob Archer, Damhee Park, Jesse H. Erasmus

HDT Bio, Seattle, WA, United States

Poster Session C Presentations

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LB-5477**Arbovirus Active Surveillance in Ten Health Centers of Panama and Darien Provinces**

Luis Felipe Rivera¹, Genesis Galue¹, Sandra Lopez¹, Kathryn Hanley², Nikos Vasilakis³, Jean Paul Carrera¹
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LB-5478**Transmission routes of infection in humans with thrombocytopenia syndrome from the perspective of evidence-based medicine: a systematic review**

Darae Woo, Hyelan Lee, **Sangshin Park**
University of Seoul, Seoul, Republic of Korea

LB-5479**High seroprevalence of hepatitis E found in children with acute febrile jaundice in the Democratic Republic of Congo**

Sophie Kang¹, Sheila Makiala-Mandanda², Ellen Higginson³, Florian Marks¹
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LB-5480**The burden of asymptomatic dengue infection at two urban sites in Kenya**

Caroline Ichura¹, Amna Tariq¹, Bethel Bayrau¹, Francis M. Mutuku², Bryson Ndenga³, Gladys Agola⁴
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LB-5481**Prevalence and species diversity of Campylobacter in infants and livestock reservoirs in rural households in Eastern Ethiopia**

Arie H. Havelaar¹, Bahar M. Hassen², Amanda E. Ojeda¹, Mussie B. Adhanom², Loic Deblais³, Kedir A. Hassen², Belisa U. Ahmedo², Yenenesh D. Weldesenbet², Jafer K. Amin², Ibsa A. Usmane², Ibsa A. Ahmed², Efraim A. Yusuf², Kunuza A. Umer², Mawardi M. Dawit², Abadir J. Seran², Abdulmuen M. Ibrahim², Kedir T. Roba², Jemal Y. Hassen², Dehao Chen¹, Xiaolong Li¹, Karah Mechlowitz¹, Cyrus Saleem¹, Nitya Singh¹, Yang Yang⁴, Zelalem H. Mekuria⁵, Wondwossen Gebreyes⁵, Nur Shaikh⁶, Mark J. Manary⁶, Getnet Yimer⁷, Nigel P. French⁸, Sarah L. Mckune¹, Gireesh Rajashekara³

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LB-5482**Influence of climate and environment on the effect of water, sanitation, and handwashing interventions for diarrheal disease in rural Bangladesh**

Anna T. Nguyen¹, Jessica A. Grembi¹, Marie Riviere¹, Tejas S. Athni¹, Ayse Ercumen², Audrie Lin³, Yoshika Crider¹, Andrew Mertens³, Leanne Unicomb⁴, Mahbubur Rahman⁴, John M. Colford³, Stephen P. Luby¹, Benjamin F. Arnold⁵, Jade Benjamin-Chung¹
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Poster Session C Presentations

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LB-5483

Device and protocol innovation for high consequence case management in any setting

David Brett-Major¹, Katherine Willet¹, Ylinne Lynch², Mansoor Ahmad³, Kristine Anderson³, Anjum Anwar², Courtney Augustine⁴, Krista Beiermann⁴, Lauryn Burbridge⁴, Brenda Coppola⁵, Brad Huff⁴, Christopher Kratochvil¹, Julio Lara¹, Lauren Longacre¹, John-Martin Lowe¹, Lauren Musil¹, Janet Olivarria⁵, Eladio Pereira⁵, Rachel Prudhomme¹, Elizabeth Rosenman², Morgan Shradar¹, Robin Stuart³, Julie Vance⁴, Mark Vazquez¹, Victoria Wadman¹, Lisa Willard¹, Phillip Williams⁵, Laura Evans², James Lawler¹, M. Jana Broadhurst¹
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LB-5484

Water provision in primary schools: A pilot project to enhance F&E interventions for trachoma

Eshetu Sata¹, Melak Haileleule¹, Awoke Dagne¹, Mulat Zerihun¹, Ayenachew Kerie¹, Kassa Bulcha¹, Zebene Ayele¹, Adisu Abebe², Alamirew Salilew³, Anteneh Kibret⁴, Kimberly A. Jensen⁵, Scott D. Nash⁵
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LB-5485

Barriers to vaccine uptake in an oral mass vaccination campaign against cholera in Uvira, Democratic Republic of Congo

Aybüke Koyuncu¹, Patrick Musole Bugeme¹, Juan Dent Hulse¹, Hanmeng Xu¹, Elizabeth Lee¹, Chloe Hutchins², Jackie Knee², Karin Gallandat², Jaime Saidi

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LB-5486

What makes a shared sanitation facility usable? Evidence from peri-urban Jharkhand

Helen O. Pitchik¹, Anoop Jain², Michaela Kupfer¹, Manoj Parida³, Satyanarayan Mohanty³, Prabin Ghimire⁴, Isha Ray¹

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LB-5487

Drinking water contamination and associated health outcomes in rural Appalachia: A systematic review and meta-analysis

Alasdair Cohen¹, Amanda Darling¹, Hannah Patton¹, Md Rasheduzzaman¹, Rachel Guevara², Joshua McCray², Leigh-Anne Krometis¹

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LB-5488

Formative Research for the Development of the CHoBI7 Cholera Rapid Response Program to Reduce Cholera in Hotspots in Bangladesh

Fatema Zohura¹, Elizabeth D. Thomas², Jahed Masud¹, Md. Sazzadul Islam Bhuyian¹, Tahmina Parvin¹, Shirajum Monira¹, Abu SG Faruque¹, Munirul Alam¹, Christine Marie George¹

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