

2021 Annual Meeting

November 17-21 | VIRTUAL MEETING

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Late-Breaker Abstract Presentation Schedule

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Late-Breaker Abstract Session 15

Late-Breakers in Malaria

Meeting Room 9

Thursday, November 18, 11 a.m. - 12:15 p.m.

CHAIR

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

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

11 a.m.

LB-5120

Cerebral Malaria-related Heme and Histidine Rich Protein 2 (HRP2)-induced damage in brain organoids is Toll Like Receptor (1 and 2) dependent

Adriana Harbuzariu, Juan C. Cespedes, Annette Nti, Keri O. Harp, Adel Driss, Jonathan K. Stiles
Morehouse School of Medicine, Atlanta, GA, United States

11:07 a.m.

LB-5121

An efficient variant calling pipeline for Plasmodium falciparum whole genome sequencing using GATK version 4

Karamoko Niare¹, Nicholas Hathaway², Isabel Rodriguez-Barraquer³, Bryan Greenhouse³, Jeffrey Bailey¹
¹Department of Pathology and Laboratory Medicine, Brown University, Providence, RI, United States, ²Program in Bioinformatics and Integrative Biology, University of Massachusetts, Worcester, MA, United States, ³EPPICenter Program, Division of HIV, Infectious Diseases, and Global Medicine, Department of Medicine, University of California San Francisco, San Francisco, CA, United States

11:14 a.m.

LB-5122

Modeling the emergence of PfCRT-mediated piperazine-resistant Plasmodium falciparum malaria in Africa

Laura M. Hagenah, Kyra A. Schindler, Jennifer L. Small-Saunders, David A. Fidock
Columbia University, New York, NY, United States

11:21 a.m.

LB-5123

Expanded Safety and Immunogenicity of the Malaria Vaccine Candidate, FMP014 (SAPN-CSP) Formulated in ALFQ Adjuvant in US Naïve Adults

Jack Hutter¹, Paul Robben¹, Kristen Merino¹, Elke Bergmann-Leitner¹, Xiaoyan Zou², Zoltan Beck¹, David Lanar¹, Peter Burkhard³, Viseth Ngauy¹, Jason Regules¹, Gary Matyas¹, Evelina Angov¹
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Navy Medical Research Center, Silver Spring, MD, United States, ³Alpha-O-Peptide AG, Riehen, Switzerland

11:28 a.m.

LB-5124

suPAR as a prognostic marker of Ugandan children at risk of severe and fatal malaria

Veselina Stefanova¹, Michelle Ngai², Andrea Weckman¹, Julie Wright¹, Kathleen Zhong², Chloe R. McDonald², Andrea L. Conroy³, Michael Hawkes⁴, Robert O. Opoka⁵, Kevin C. Kain⁶
¹Department of Laboratory Medicine and Pathobiology, University of Toronto, Toronto, ON, Canada, ²SAR Laboratories, Sandra Rotman Centre for Global Health, University Health Network-Toronto General Hospital, Toronto, ON, Canada, ³Indiana University School of Medicine, Department of Pediatrics, Bloomington, IN, United States, ⁴University of Alberta, Faculty of Medicine, Department of Pediatrics, Edmonton, AB, Canada, ⁵Makerere University, School of Medicine, Department of Paediatrics and Child Health, Kampala, Uganda, ⁶Tropical Disease Unit, Division of Infectious Diseases, Department of Medicine, University of Toronto, Toronto, ON, Canada

Late-Breaker Abstract Session 15

Late-Breakers in Malaria

Meeting Room 9

Thursday, November 18, 11 a.m. - 12:15 p.m.

11:35 a.m.

LB-5125

Perfusion index as an indicator for mortality in children with Plasmodium falciparum severe malaria

Wes Boland¹, Caitlin Boland¹, Paul Bangirana², Dibyadyuti Datta¹, Robert Opoka³, Chandy John¹
¹Ryan White Center for Pediatric Infectious Disease and Global Health, Department of Pediatrics, Indiana University School of Medicine,, Indianapolis, IN, United States, ²Department of Psychiatry, Makerere University College of Health Sciences, Kampala, Uganda, ³Department of Paediatrics and Child Health, Makerere University College of Health Sciences, Kampala, Uganda

11:42 a.m.

LB-5126

Malaria Infection in Pregnancy is Associated with Impaired Intestinal Permeability and Preterm Birth

Julie K. Wright¹, Michelle Ngai², Andrea Weckman¹, Veselina Stefanova¹, Kathleen Zhong², Chloe McDonald², Kevin C. Kain²
¹University of Toronto, Toronto, ON, Canada, ²Sandra Rotman Centre for Global Health, Toronto General Research Institute, University Health Network-Toronto General Hospital, Toronto, ON, Canada

Late-Breaker Abstract Session 55
Late-Breakers in Clinical and Applied Sciences
Meeting Room 9
Friday, November 19, 10:15 a.m. – 11:30 a.m.

CHAIR

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

Jason D. Maguire
Pfizer, White Plains, NY, United States

10:15 a.m.

LB-5127

Pre-transmission assessment survey in two health districts (Boké and Gueckedou) in Guinea after five rounds of MDA

Aissatou Diaby¹, **Lamine Lamah**², Fatoumata Sakho¹, André Géopogui¹, Mamadou Siradiou Baldé¹, Christelly Badila Flore², Abdoul A. Diallo², Abdoul Karim Kamara², Fatou Gueye³, Angel Weng³, Steven D. Reid³, Brian Fuller³, Ernest Mensah⁴, Benoit Dembele⁵, Yaobi Zhang³, Angela Weaver³

¹Ministry of Health, Conakry, Guinea, ²Helen Keller International, Conakry, Guinea, ³Helen Keller International, New York, NY, United States, ⁴FHI 360, Accra, Ghana, ⁵Helen Keller International, Dakar, Senegal

10:22 a.m.

LB-5128

Safety and pharmacokinetics of a single oral dose of moxidectin in subjects aged 4 to 17 years with (or at risk of) onchocerciasis, to identify an optimal dose for treatment of children 4 to 11 years: Early results of an open label study.

Nicholas O. Opoku¹, Mathias D. Ocloo², Melinda Lowe³, Kashyap Patel⁴, Annette C. Kuesel⁵, Sally Kinrade³

¹School of Public Health University of Health and Allied Sciences (UHAS), Hohoe, Ghana, ²Hohoe Municipal Hospital, Hohoe, Ghana, ³Medicines Development for Global Health, Southbank, Australia, ⁴Certara, Parkville, Australia, ⁵World Health Organisation Special Programme for Research and Training in Tropical Diseases (TDR), Geneva, Switzerland

10:29 a.m.

LB-5129

Adapting the Ebola ring vaccination strategy: an innovative sampling design to collect behavioural data to inform outbreak response

Reena H. Doshi¹, Monica K. Fleming¹, Shibani Kulkarni¹, Mbong Eta Ngole², Arsene Baleke Ombeni², Mohamed F. Jalloh³, Neetu Abad¹, Dieula Delissaint Tchoualeu¹, Rigobert Fraterne Muhayangabo², Ruffin Mitume Mutumwa², Stephanie Hans Bateyi Mustafa⁴, Shiromi Perera⁵, Elizabeth Song⁶, Jasmine Powell⁶, Bailey Glenn⁷, Anna Chard¹, Stephanie Garbern⁸, David L. Fitter¹, Dimitri Prybylski¹, Terri Hyde¹, Adam C. Levine⁸

¹Global Immunization Division, Centers for Disease Control and Prevention, Atlanta, GA, United States, ²International Medical Corps, Goma, Democratic Republic of the Congo, ³Division of Global HIV & TB, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Expanded Programme on Immunization, Goma, Democratic Republic of the Congo, ⁵International Medical Corps, Washington, DC, United States, ⁶Brown University, Providence, RI, United States, ⁷James A. Ferguson Emerging Infectious Diseases Research Initiatives for Student Enhancement Fellowship, Atlanta, GA, United States, ⁸Department of Emergency Medicine, Brown University, Providence, RI, United States

10:36 a.m.

LB-5130

The simultaneous emergence of multiple clades of Salmonella Typhi resistant to fluoroquinolones due to QRDR mutations in Blantyre, Malawi

Philip Ashton¹, Priyanka Patel¹, James Meiring¹, Maurice Mbewe¹, Angeziwa Chirambo¹, Zoe Dyson², Kat Holt², Melita Gordon¹

¹Malawi-Liverpool-Wellcome, Blantyre, Malawi, ²London School of Hygiene and Tropical Medicine, London, United Kingdom

Late-Breaker Abstract Session 55**Late-Breakers in Clinical and Applied Sciences**

Meeting Room 9

Friday, November 19, 10:15 a.m. – 11:30 a.m.

10:43 a.m.**LB-5131****CONTINUING EVIDENCE OF VECTOR TRANSMISSION POTENTIAL FOR CHAGAS DISEASE IN EL SALVADOR 2018-2021**

Marvin Stanley Rodriguez¹, Yuko Nitahara², Michelle Cornejo¹, Kevin Siliezar¹, Rafael Grande¹, Ana Gonazalez¹, Kotaro Tasaki³, Yu Nakagama², Yu Michimuko², Yoko Onizuka⁴, Junco Shimada⁴, Eduardo Romero⁵, Ricardo Palacios¹, Carmen Arias⁶, William Mejía⁷, Yasutoshi Kido², Ricardo Cardona⁸
¹Universidad de El Salvador, San Salvador, El Salvador, ²Osaka City University, OSAKA, Japan, ³Nagasaki university, Nagasaki, Japan, ⁴Gunma University, Gunma, Japan, ⁵Ministerio de salud de El Salvador, San Salvador, El Salvador, ⁶Centro Nacional de Investigaciones Científicas de El Salvador, San Salvador, El Salvador, ⁷Centro Nacional de Investigaciones Científicas de El Salvador, San Salvador, El Salvador, ⁸Ministerio de Educación, Ciencia y Tecnología, San Salvador, El Salvador

10:50 a.m.**LB-5132****Identifying the potential value of short-course doxycycline added to WHO's hygiene-based Essential Care Package to improve the physical and quality of life measures of ~1800 patients with lymphedema caused by Lymphatic Filariasis or podoconiosis: Individual placebo-controlled clinical trials in six countries**

Linda B. Debrah¹, Yahathugoda T. Channa², Ute Klarmann-Schulz³, Yaya I. Coulibaly⁴, Suma T. Krishnasastry⁵, Samuel Wanji⁶, Akili Kalinga⁷, Mirani V. Weerasooriya⁸, Abdallah Ngenya⁷, John Horton⁹, Philip J. Budge¹⁰, Inge Kroidl¹¹, Charles Mackenzie¹², Andrew Majewski¹², Sarah Sullivan¹², John Shen¹², Mariana Stephens¹², Joseph Shott¹³, Alexander Y. Debrah¹⁴, Achim Hoerauf³, Eric A. Ottesen¹²
¹Kwame Nkrumah University of Science & Technology, Kumasi, Ghana, ²University of Ruhuna, Galle, Sri Lanka, ³University of Bonn, Bonn, Germany, ⁴International Centers for Excellence in Research, Bamako, Mali, ⁵Government TD Medical College Hospital, Alappuzha, India, ⁶University of Buea, Buea, Cameroon, ⁷National Institute for Medical Research, Dar es Salaam, United Republic of Tanzania, ⁸General Sir John Kotelawala Defense University, Colombo, Sri Lanka, ⁹Tropical Projects, Hitchin, United Kingdom, ¹⁰Washington University of

St. Louis, St. Louis, MO, United States, ¹¹Ludwigs-Maximilian-University, Munich, Germany, ¹²Task Force for Global Health, Decatur, GA, United States, ¹³United States Agency for International Development, Washington, DC, United States, ¹⁴Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

10:57 a.m.**LB-5133****How can a nationally representative biorepository be used for subnational measles and rubella seroprevalence? A cross-sectional serosurvey in Zambia**

Andrea C. Carcelen¹, Amy Winter¹, Francis D. Mwansa², William J. Moss¹, Innocent Chilumba³, Irene Mutale³, Gershon Chongwe⁴, Mwaka Monse⁵, Gina Mulundu⁵, Hope Nkamba⁵, Lloyd Mulenga⁶, Dale A. Rhoda⁷
¹Johns Hopkins University, Baltimore, MD, United States, ²Zambian Ministry of Health, Lusaka, Zambia, ³Tropical Disease Research Center, Ndola, Zambia, ⁴Tropical Disease Research Center, Ndola, Zambia, ⁵University Teaching Hospital, Lusaka, Zambia, ⁶Ministry of Health, Lusaka, Zambia, ⁷Biostat Global Consulting, Worthington, OH, United States

Late-Breaker Abstract Session 59

Late-Breakers in Coronavirus

Meeting Room 9

Friday, November 19, Noon - 1:15 p.m.

CHAIR

Noreen A. Hynes

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

Katherine R. Dobbs

Case Western Reserve University, Cleveland, OH, United States

Noon

LB-5242

Genomic Evolution of SARS-CoV-2 Variants After a Year of COVID-19 Pandemic in Ghana

Collins M. Morang^{a1}, Joyce M. Ngoi¹, Dominic S. Amuzu¹, Vincent Appiah¹, Frederick M. Tei-Maya¹, Evelyn B. Quansah¹, Philip M. Soglo¹, Violette V. M'cormack¹, Samirah Saiid¹, Bright K. Yemi¹, Israel Osei-Wusu¹, Deborah N. Mettle¹, Patrick T. Ababio², Paul Owusu-Oduro³, Abdul-Karim Abass⁴, Samuel K. Akoriyea⁴, Emmanuella Amoako⁵, Oliver D. Boakye⁶, Theophilus Odoom², Lawrence Ofori-Boadu⁷, Samuel Armoo⁸, Michael Osei-Atweneboana⁸, Emmanuel Allegye-Cudjoe⁹, Dennis Adu-Gyasi¹⁰, Sylvester Dassah¹¹, Victor Asoala¹¹, Patrick Ansa¹¹, Kwaku P. Asante¹⁰, Richard O. Philips¹², Michael Owusu¹², Joseph A. Oliver-Commey¹³, Edward D. Fenteng², Joe K. Mutungi¹, Nicaise T. Ndam¹⁴, William K. Ampofo¹⁴, Yaw Bediako¹, Peter K. Quashie¹, Lucas N. Amenga-Etego¹, Gordon A. Awandare¹

¹West African Centre for Cell Biology of Infectious Pathogens (WACCBIP), University of Ghana, Accra, Ghana, ²Accra Veterinary Services Directorate, Accra, Ghana, ³LEDing Medical Laboratory, Accra, Ghana, ⁴Tamale Teaching Hospital Intensive Care Unit, Ghana Health Service, Tamale, Ghana, ⁵Cape Coast Teaching Hospital, Cape Coast, Ghana, ⁶Takoradi Veterinary Services Department, Takoradi, Ghana, ⁷Ga East Municipal Hospital, Ghana Health Service, Accra, Ghana, ⁸Biomedical and Public Health Research Unit, Water Research Institute, Council for Scientific and Industrial Research, Accra, Ghana, ⁹Kpong Tamale Veterinary Services Department, Tamale, Ghana, ¹⁰Kintampo Health Research Centre, Kintampo, Ghana, ¹¹Navrongo Health Research Centre, Navrongo, Ghana, ¹²Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, ¹³Ghana Infectious Disease Centre, Accra, Ghana, ¹⁴Noguchi Memorial Institute for Medical Research, University of Ghana, Legon, Accra, Ghana

12:07 p.m.

LB-5243

Genomic surveillance of SARS-CoV-2 in US military compounds in Afghanistan reveals multiple introductions and outbreaks of Alpha and Delta variants of concern.

Irina Maljkovic Berry¹, Jun Hang¹, **Christian Fung¹**, Yu Yang¹, Jesse M. Wickham², Marcus Chibucos¹, Adam Pollio¹, Matthew L. Bezzant², Jay Ghandi¹, Grace C. Hodge², Tao Li¹, Jessica A. Lima², Matthew Conte¹, Patrick W. Kennedy², Grace M. Lidl¹, Jay A. Johannigman², Heather Friberg¹
¹WRAIR, Silver Spring, MD, United States, ²CENTCOM affiliation, CENTCOM affiliation, MD, United States

12:14 p.m.

LB-5244

Development of a rapid and easy-to-perform point-of-care Lateral Flow Immunoassay (LFIA) for the detection of SARS-CoV-2- spike protein in respiratory specimens

Shamim Mohammad, Yuxia Wang, John Cordero, Karin Kindig, Rebecca Bradford
ATCC, Manassas, VA, United States

Late-Breaker Abstract Session 59

Late-Breakers in Coronavirus

Meeting Room 9

Friday, November 19, Noon - 1:15 p.m.

12:21 p.m.

LB-5245

Knowledge, Attitudes, and Beliefs regarding COVID-19 Vaccination and Predictors of Vaccine Hesitancy in North Kivu, Democratic Republic of the Congo

Jasmine Powell¹, Shiromi Perera², **Stephanie Garbern**¹, Elizabeth Song¹, Bailey Glenn³, Mbong Eta Ngole⁴, Arsene B. Ombeni⁴, Rigobert F. Muhayangabo⁴, Ruffin M. Mutumwa⁴, Stephane H. Mustafa⁵, Shibani Kulkarni³, Monica Fleming³, Mohamed F. Jalloh⁶, Neetu Abad³, Dieula D. Tchoualeu³, Anna Chard⁷, David Fitter³, Dimitri Prybylski³, Terri Hyde³, Reena Doshi³, Adam C. Levine¹

¹Brown University, Providence, RI, United States, ²International Medical Corps, Washington, DC, United States, ³Global Immunization Division, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴International Medical Corps, Goma, Democratic Republic of the Congo, ⁵Expanded Programme on Immunization, Goma, Democratic Republic of the Congo, ⁶Division of Global HIV and TB, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁷Influenza Division, Centers for Disease Control and Prevention, Atlanta, GA, United States

12:28 p.m.

LB-5246

Spatial analysis of household COVID-19 transmission in a malaria endemic rural community in Mali, West Africa

Sara Jones¹, John Woodford², Jennifer Kwan³, Abdoulaye Katile⁴, Bourama Kamate⁴, Emily Higbee², Jacquelyn Lane², David Cook², Sara Healy², M'Bouye Doucoure⁴, Amatique Zeguime⁴, Irfan Zaidi², Yai Doritchamou², Alassane Dicko⁴, Patrick Duffy², Issaka Sagara⁴

¹Office of Data Science and Emerging Technologies, National Institute of Allergy and Infectious Diseases, Rockville, MD, United States, ²Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ³Laboratory of Clinical Immunology and Microbiology, National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ⁴Malaria Research and Training Center, Mali-NIAID ICER, University of Sciences, Techniques and Technologies of Bamako, Bamako, Mali

12:35 p.m.

LB-5247

COVID-19 case forecasting based on environmental sewage surveillance in Dhaka, Bangladesh

Stephanie A. Brennhof¹, Isobel M. Blake², Md. Ohedul Islam³, Rashidul Haque³, Mahburur Rahman⁴, Tahmina Shirin⁴, Tania Ferdousi³, Md. Hamim Bhuiyan³, Tonima Rahman³, Tuhinur Arju³, Md. Abdul Kader³, Syed Shahnewaj Siraj Sony³, Sabrina Karim Resha³, Mohammad Raihanul Hoque⁵, Kaiser Sojib⁶, Meerjady Sabrina Flora⁷, Elizabeth T. Rogawski McQuade⁸, Erin Wettstone¹, Lauren Hughlett⁹, Shams El Arifeen¹⁰, Ayesha S. Mahmud¹¹, Mami Taniuchi¹²

¹Division of Infectious Diseases and International Health, University of Virginia, Charlottesville, VA, United States, ²Department of Infectious Disease Epidemiology, School of Public Health, Imperial College London, London, United Kingdom, ³Infectious Disease Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁴Institute of Epidemiology, Disease Control and Research, Dhaka, Bangladesh, ⁵Project Implementation and Monitoring, a2i, Dhaka, Bangladesh, ⁶Data Innovation Cluster, a2i, Dhaka, Bangladesh, ⁷Directorate General of Health Services, Dhaka, Bangladesh, ⁸Department of Epidemiology, Rollins School of Public Health, Emory University, Atlanta, GA, United States, ⁹Biomedical Engineering, University of Virginia, Charlottesville, VA, United States, ¹⁰Maternal and Child Health Division, International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ¹¹Department of Demography, University of California - Berkeley, Berkeley, CA, United States, ¹²Department of Medicine, Division of Infectious Diseases and International Health, Department of Biomedical Engineering, Department of Engineering Systems and Environment, University of Virginia, Charlottesville, VA, United States

12:42 p.m.

LB-5248

Outcomes of COVID-19 among Hospitalized Children and Adolescents: A Retrospective Cohort Study in Six African Countries

Nadia A. Sam-Agudu¹, AFREhealth COVID-19 Research Collaboration Working Group on Children and Adolescents²

¹International Research Center of Excellence, Institute of Human Virology Nigeria, Abuja, Nigeria, ²AFREhealth, African and International Collaborating Institutions, Kumasi HQ, Ghana

Late-Breaker Abstract Session 96

Late-Breakers in Basic Sciences

Meeting Room 9

Saturday, November 20, 11 a.m. - 12:15 p.m.

CHAIR

Wei-Kung Wang
University of Hawaii at Manoa, Honolulu, HI, United States

Justin Yai Doritchamou
NIAID, Rockville, MD, United States

11 a.m.

LB-5375

Wolbachia cifB induces cytoplasmic incompatibility in the malaria mosquito

Kelsey L. Adams, Daniel G. Abernathy, Bailey C. Willett, Emily K. Selland, Maurice A. Itoe, Flaminia Catteruccia
Harvard T.H. Chan School of Public Health, Boston, MA, United States

11:07 a.m.

LB-5376

Gut epithelial dynamics in the process of maturation, blood digestion and infection in mosquitoes

Mabel L. Taracena
Cornell University, Ithaca, NY, United States

11:14 a.m.

LB-5377

The leptospiral PF07598 gene family encodes exotoxins that mediate leptospirosis pathogenesis, and are vaccine and drug targets

Reetika Chaurasia, Alan Marroquin, Alamzeb Khan, Richard W. Pierce, Michael A. Matthias, Joseph M. Vinetz
Yale University, New Haven, CT, United States

11:21 a.m.

LB-5378

Immune response to LinB-13 from *Lutzomyia intermedia* correlates with severity of tegumentary leishmaniasis

Augusto M. Carvalho¹, Sayonara Viana¹, Fabiano Oliveira², Jesus G. Valenzuela², Edgar M. Carvalho¹, Camila I. de Oliveira¹
¹*Gonçalo Moniz Institute, SALVADOR, Brazil*, ²*Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States*

11:28 a.m.

LB-5379

Giardia regulates the innate response of macrophages to lipopolysaccharide

Steven M. Singer, Heriberto DeLeon, Marc Fink, Vanessa Angelova, Samantha Menegas, Danielle Shapiro, Eleanor Miskovsky
Georgetown University, Washington, DC, United States

Late-Breaker Abstract Session 96

Late-Breakers in Basic Sciences

Meeting Room 9

Saturday, November 20, 11 a.m. - 12:15 p.m.

11:35 a.m.

LB-5380

Multi-platform 'Omics analysis of chikungunya pathogenesis from fatal cases

William M. de Souza¹, Marcilio J. Fumagalli², Jeany Delafiori³, Shirlene T. Lima³, Stefanie P. Muraro³, Gabriela F. Souza³, Priscilla P. Barbosa³, Mariana Severo⁴, Thiago C. Silva⁵, Darlan S. Candido⁶, Carla C. Judice³, Leda M. Mello⁷, Mariane T. Menezes⁸, Alice L. Herlinger⁸, Renato S. Aguiar⁹, Fabio T. Costa³, Viviane S. Boaventura¹⁰, Ester C. Sabino⁴, Ricardo Khouri⁵, Rodrigo R. Catharino³, Nuno R. Faria¹¹, José Luiz Proença-Modena³, Scott C. Weaver¹, Luiz Tadeu M. Figueiredo²

¹University of Texas Medical Branch, Galveston, TX, United States, ²University of São Paulo, Ribeirão Preto, Brazil, ³University of Campinas, Campinas, Brazil, ⁴University of São Paulo, São Paulo, Brazil, ⁵Fundação Oswaldo Cruz-Fiocruz, Salvador, Brazil, ⁶University of Oxford, Oxford, United Kingdom, ⁷Central Public Health Laboratory of Ceará State, Fortaleza, Brazil, ⁸Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, ⁹Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, ¹⁰Universidade Federal da Bahia, Salvador, Brazil, ¹¹Imperial College London, London, United Kingdom

11:42 a.m.

LB-5381

Antibody Fc correlates of protection from symptomatic dengue virus infection

Antonio Gregorio Dias Junior¹, Caroline Atyeo², Caroline Loos², Magelda Montoya¹, Vicky Roy², Sandra Bos¹, Parnal Narvekar¹, Leah Katzelnick¹, Guillermina Kuan³, Douglas Lauffenburger⁴, Angel Balmaseda⁵, Galit Alter², Eva Harris¹

¹Division of Infectious Diseases and Vaccinology, School of Public Health, University of California, Berkeley, Berkeley, CA, United States, ²Ragon Institute of MGH, MIT, and Harvard, Cambridge, MA, United States, ³Centro de Salud Sócrates Flores Vivas, Ministerio de Salud, Managua, Nicaragua, ⁴Massachusetts Institute of Technology, Cambridge, MA, United States, ⁵Laboratorio Nacional de Virología, Centro Nacional de Diagnóstico y Referencia, Ministerio de Salud, Managua, Nicaragua

Poster Session 14
Poster Session A
Late-Breakers in Basic Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

Coronavirus.....#LB-5000 through LB-5008
Arthropods/Entomology#LB-5009 through LB-5027
Malaria#LB-5028 through LB-5049

LB-5000

The Analysis of reporting delays in disease incidence: Methods and results for forecasting COVID-19 cases

Yunus Abdulhameed Abdussalam¹, Jacob B. Aguilar², Samuel Roberts¹, James Kercheville¹, Juan B. Gutiérrez¹

¹The University of Texas at San Antonio, San Antonio, TX, United States, ²Saint Leo University, Saint Leo, FL, United States

LB-5001

The introduction of SARS-CoV-2 P.1 lineage and COVID-19 vaccination contributed to a change in the epidemiological profile of Sao Jose do Rio Preto, Sao Paulo, Brazil

Cecilia Artico Banho¹, Lívia Sacchetto¹, Guilherme Rodrigues Campos¹, Cíntia Bittar², Fábio Sossai Possebon³, Leila Sabrina Ullmann³, Beatriz de Carvalho Marques¹, Gislaire Ceslestino da Silva¹, Marília Mazzi Moraes¹, Maisa Carla Parra¹, Andreia Francesli Negri⁴, Ana Carolina Boldrin⁴, Michela Dias Barcelos⁴, Helena Lage Ferreira⁵, Paula Rahal², João Pessoa Araújo Jr.³, Jamie A. Cohen⁶, Cliff C. Kerr⁶, Benjamin M. Althouse⁶, Nikos Vasilakis⁷, Maurício Lacerda Nogueira¹

¹Faculdade de Medicina de Sao Jose do Rio Preto, Sao Jose do Rio Preto, Brazil, ²São Paulo State University, Institute of Biosciences, Languages and Exact Sciences, Sao Jose do Rio Preto, Brazil, ³Biotechnology Institute, São Paulo State University, Botucatu, Brazil, ⁴Epidemiological Surveillance Department, Sao Jose do Rio Preto, Brazil, ⁵FZEA-USP, University of São Paulo, Pirassununga, Brazil, ⁶Institute for Disease Modeling, Global Health Division, Bill & Melinda Gates Foundation, Seattle, WA, United States, ⁷University of Texas Medical Branch, Galveston, TX, United States

LB-5002

A genomics dissection of Kenya's COVID-19 waves: Lineage replacement overtime and dominance of imported variants of concern

Gathii Kimita

KEMRI/USAMRD-A, Kisumu, Kenya

LB-5003

Metformin regulates the inflammatory response of human monocytes to SARS-CoV-2 S glycoprotein

Madeleine Morris, Albert Chung, Matthew Palfreeman, Jose Barragan, Jorge Cervantes
Texas Tech University Health Sciences Center El Paso, El Paso, TX, United States

LB-5004

SARS-CoV-2 seroprevalence and socioeconomic vulnerabilities among residents of an urban slum in Salvador, Brazil.

Nivison Ruy R. Nery¹, Juan P. Aguilar Ticona¹, Emília Maria M. de A. Belitardo², Moyra Machado Portilho², Renato Victoriano², Rosângela Oliveira dos Anjos², Lorena Gomes Santos², Daiana de Oliveira², Jaqueline S. Cruz², Mariam O. Fofana³, Guilherme S. Ribeiro¹, Mitermayer Galvão Reis¹, Federico Costa¹, Albert I. Ko³
¹Federal University of Bahia, Salvador, Brazil, ²Gonçalo Moniz Institute, Oswaldo Cruz Foundation, Salvador, Brazil, ³Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States

LB-5005

Only 30% of SARS-CoV-2 Nasopharyngeal Swabs have Sub-genomic RNAs: Implications for Viral Transmission

Esther Omuseni, Carolyne Kifude, John Waitumbi
KEMRI/USAMRD-A, Kisumu, Kenya

Poster Session A

Late-Breakers in Basic Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5006

Lack of evidence of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) spillover in free-living Neotropical non-human primates from two hotspots of COVID-19 in the states of Sao Paulo and Amazonas, Brazil

Livia Sacchetto¹, Barbara Chaves², Edson Costa³, Aline Medeiros³, Marcelo Gordo⁴, Danielle Araujo⁵, Danielle Oliveira⁵, Ana Paula da Silva⁶, Andréia Negri⁶, Edison Luiz Durigon⁵, Kathryn Hanley⁷, Nikos Vasilakis⁸, Marcus Vinicius Lacerda³, Mauricio Nogueira¹
¹*Faculdade de Medicina de São José do Rio Preto, São José do Rio Preto, Brazil,* ²*Fundação de Medicina Tropical Doutor Heitor Vieira Dourado, Manuas, Brazil,* ³*Fundação de Medicina Tropical Doutor Heitor Vieira Dourado, Manaus, Brazil,* ⁴*Universidade Federal do Amazonas, Manaus, Brazil,* ⁵*Universidade de São Paulo, São Paulo, Brazil,* ⁶*Epidemiological Surveillance Department of São José do Rio Preto, São José do Rio Preto, Brazil,* ⁷*New Mexico State University, Las Cruces, NM, United States,* ⁸*The University of Texas Medical Branch, Galveston, TX, United States*

LB-5007

Analyzing and Characterizing SARS-CoV-2 Samples within the Military Health System

Logan J. Voegtly¹, Catherine E. Arnold², Kyle A. Long¹, Bishwo N. Adhikari², Gregory K. Rice¹, Matthew R. Lueder¹, Lindsay A. Glang¹, Andrew J. Bennett¹, Andrea E. Luquette¹, Michael V. Deschenes¹, Dessiree Pena-Gomez¹, Adrian C. Paskey³, Francisco Malagon¹, Regina Z. Cer⁴, Kimberly A. Bishop-Lilly⁴
¹*Leidos Inc, Reston, VA, United States,* ²*Defense Threat Reduction Agency, Fort Belvoir, VA, United States,* ³*Uniformed Services University of Health Sciences, Bethesda, MD, United States,* ⁴*Genomics and Bioinformatics Department, Biological Defense Research Directorate, Naval Medical Research Center, Fort Detrick, MD, United States*

LB-5008

COVID-19 Mass Testing and Sequencing: Experiences from a Laboratory in Western Kenya

John N. Waitumbi
Kenya Medical Research Institute/ United States Army Medical Research Directorate-Africa, Kisumu, Kenya

LB-5009

Mosquito Vector Surveillance in Oklahoma

Christine Abraham¹, Garret Bickley¹, Callie campbell¹, Hayden Jacobs², Caio Martinelle B. Franca¹
¹*Southern Nazarene University, Bethany, OK, United States,* ²*OUHSC College of Public Health, Oklahoma City, OK, United States*

LB-5010

Optimising Insect Egg Longevity to Enhance the Scalability of Vector-borne Disease Management

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

LB-5011

The effect of toxic sugar bait on dengue virus serotype 1 infection in Aedes albopictus

Abdullah A. Alomar, Barry W. Alto
Florida Medical Entomology Laboratory, Vero Beach, FL, United States

LB-5012

Entomological Surveillance of Anopheles mosquitoes in the province of Cuando-Cubango, Angola 2020-2021

Gonçalo Alves¹, Veronica Jalomba¹, Andre Domingos², Ana Feliciano³, Cani Pedro², José Franco Martins², Cátia Marques⁴, Richard Oxborough⁵, Dayton Makusa¹, Chadwick Sikaala⁶, Lizette L. Koekemoer⁷, Ana Direito⁸, Sergio Lopes⁸
¹*The MENTOR Initiative, Luanda, Angola,* ²*National Malaria Control Program, Luanda, Angola,* ³*Provincial Health Department, Menongue, Angola,* ⁴*PSI Angola, Luanda, Angola,* ⁵*Abt Associates Inc. VectorLink Project, President's Malaria Initiative, London, United Kingdom,* ⁶*SADC Malaria Elimination 8, Windhoek, Namibia,* ⁷*Wits Research Institute for Malaria; School of Pathology, Faculty of Health Sciences, University of the Witwatersrand, Johannesburg, South Africa,* ⁸*The MENTOR Initiative, Haywards Heath, United Kingdom*

Poster Session A

Late-Breakers in Basic Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5013

Assessing the impacts of social vulnerability on mosquito abundance, diversity, and ecology in New Orleans, Louisiana

Brendan Carter, Angela Smith, Sarah Michaels, Katherine Theall, Joshua Yukich, Dawn Wesson
Tulane University School of Public Health & Tropical Medicine, New Orleans, LA, United States

LB-5014

First plant-sugar feeding evidence for the malaria vector *Nyssorhynchus darlingi* in Amazonian Peru

Manuela E. Herrera-Varela¹, Juliana A. Morales¹, Milagros Ayarza¹, Diana Leyva¹, Felipe Yon¹, Edgar Manrique¹, Samantha Solis¹, Marlon Saavedra¹, Joseph M. Vinetz², Woodbridge Foster³, **Jan E. Conn**⁴
¹*Universidad Peruana Cayetano Heredia, Lima, Peru*, ²*Yale University, New Haven, CT, United States*, ³*The Ohio State University, Columbus, OH, United States*, ⁴*The Wadsworth Center, NYSDOH, Albany, NY, United States*

LB-5015

wMel Wolbachia genome remains stable in *Aedes aegypti* field populations

Kimberley Dainty
Monash University, Melbourne, Australia

LB-5016

Disparity in the Residual Efficacy of Actellic® 300CS and SumiShield™ 50WG: Results of a Preliminary Assessment After the Operational Application of the Insecticides for Indoor Residual Spraying in Malawi from 2018 to 2020

Leonard C. Dandolo¹, Kondwani Kachali², Monica Mpando², Salome Chitimbe², Justin Jelason², Jules Nahimana¹, Pius Masache³, Jennifer Burnett¹, Monica Bautista³, John E. Gimnig⁴, Miriam Mokuena⁵, Adeline Chan⁶, Jenny Carlson⁷, Yemane Yihdego⁵, Themba Mzilahowa²
¹*US President's Malaria Initiative VectorLink Project, Abt Associates, Lilongwe, Malawi*, ²*Malaria Alert Centre, University of Malawi College of Medicine, Blantyre, Malawi*, ³*US President's Malaria Initiative/U.S. Agency for International Development, Lilongwe, Malawi*, ⁴*Division of Parasitic Diseases and Malaria, Centers for Disease Control and Prevention, Atlanta,*

GA, United States, ⁵*US President's Malaria Initiative VectorLink Project, Abt Associates, Rockville, MD, United States*, ⁶*U.S. President's Malaria Initiative, Entomology Branch, US Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁷*US President's Malaria Initiative/U.S. Agency for International Development, Washington, DC, United States*

LB-5017

The characterization of the mosquito host-range and transmission route of Eilat virus

Renuka E. Elizabeth Joseph¹, Nadya Urakova², Kristine Werling¹, Rebecca Johnson³, Jason Rasgon¹
¹*The Pennsylvania state university, State College, PA, United States*, ²*Leiden university medical center, Leiden, Netherlands*, ³*The Connecticut agricultural experiment station, New Haven, CT, United States*

LB-5018

Microbial diversity of the tropical horse tick (*Dermacentor nitens*) collected from horses in three livestock regions from Colombia.

Andres F. Holguin-Rocha¹, Arley Calle-Tobon², Gissella M. Vasquez³, Helvio Astete³, Karin Escobedo-Vargas³, Victor O. Zorrilla³, Alberto Tobon-Castano², Gabriel Velez-Tobon², L. Paulina Maldonado-Ruiz¹, Soheila Fatehi¹, Yoonseong Park¹, Kristopher Silver¹, Berlin Londono-Renteria¹
¹*Kansas State University, Manhattan, KS, United States*, ²*Universidad de Antioquia, Medellin, Colombia*, ³*U.S. Naval Medical Research Unit No. -6, Lima, Peru*

LB-5019

paRity: An object classification model for mosquito parity studies

Sam Jameson, Tarick Ahmad, Erika Dalliance, Jane De Verges, Brendan Carter, Dawn Wesson
Tulane University, New Orleans, LA, United States

Poster Session A

Late-Breakers in Basic Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5020

Discovery of large chromosomal inversions in the *Aedes aegypti* genome

Jiangtao Liang¹, Andrey Yurchenko², Varvara Lukyanchikova², Ilya Brusentsov², Noah Rose³, Zhijian Tu⁴, Carolyn McBride³, Maria Sharakhova¹

¹Department of Entomology and Fralin Life Science Institute, Virginia Polytechnic and State University, Blacksburg, VA, United States, ²Laboratory of Evolutionary Genomics of Insects, the Federal Research Center, Institute of Cytology and Genetics, Novosibirsk, Russian Federation, ³Department of Ecology and Evolutionary Biology, Princeton University, Princeton, NJ, United States, ⁴Department of Biochemistry and Fralin Life Science Institute, Virginia Polytechnic and State University, Blacksburg, VA, United States

LB-5021

Perceptions and Preferences for Mosquito Control Strategies for *Aedes aegypti* in Peñuelas, Puerto Rico

Valerie Madera-Garcia, Kathleen R. Walker, Elizabeth T. Jacobs, Katherine Ellingson, Kacey C. Ernst
University of Arizona, Tucson, AZ, United States

LB-5022

Dehydration as a factor that impacts vector competence of mosquitoes

Jaime Manzano¹, Christopher J. Holmes², Gerard Terradas¹, 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-5023

Zika virus infects *Aedes aegypti* ovaries

Dilip K. Nag, Anne Payne, Constantin Dieme, Alexander Ciota, Laura Kramer
Wadsworth Center, New York State Department of Health, Slingerlands, NY, United States

LB-5024

Effect of Mosquito Salivary Proteins in Human Endothelial Physiology and Angiogenesis

Nicole D. Robben, Jessica Burger, Andres F. Holguin-Rocha, Pablo D. Becerra, Berlin Londono-Renteria
Kansas State University, Manhattan, KS, United States

LB-5025

Signals of evolutionary selection within distinct and diverging populations of *An. minimus* in Cambodia - a whole genome survey of selection within this important Southeast Asian vector

Brandy St. Laurent¹, Nick Harding², Kirk Rockett², Sonia Goncalves¹, Alistair Miles¹, Dominic Kwiatkowski¹, Eleanor Drury¹

¹Wellcome Sanger Institute, Cambridge, United Kingdom, ²University of Oxford, Oxford, United Kingdom

LB-5026

Are mite ectoparasites a possible biological control mechanism for triatomine vectors of Chagas disease?: Evidence from a preliminary field investigation in the Southwestern United States

Hanna Waltz¹, Kyndall C. Dye-Braumuller¹, Mary K. Lynn¹, Stephen A. Klotz², Justin O. Schmidt³, Alvaro Romero⁴, Stanley Rodriguez⁵, Ricardo Palacios⁵, Michelle Cornejo⁵, Melissa S. Nolan¹

¹Arnold School of Public Health, University of South Carolina, Columbia, SC, United States, ²Department of Medicine, University of Arizona College of Medicine, Tucson, AZ, United States, ³Southwestern Biological Institute, Tucson, AZ, United States, ⁴College of Agriculture, Consumer and Environmental Sciences, New Mexico State University, Las Cruces, NM, United States, ⁵Centro de Investigación y Desarrollo en Salud, Universidad de El Salvador, San Salvador, El Salvador

LB-5027

Biochemical characterization of *Aedes aegypti* Piwi4 structural features necessary for RNA binding and nuclear localization

Adeline E. Williams¹, Gaurav Shrivastava², Ines Martin-Martin², Sundar Ganesan², Apostolos G. Gittis², Paola Carolina Valenzuela-Leon², Ken E. Olson¹, Eric Calvo²

¹Colorado State University, Fort Collins, CO, United States, ²NIH/NIAID, Rockville, MD, United States

Poster Session A

Late-Breakers in Basic Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5028

A district-focused approach to subnational malaria elimination in Madagascar

Andriamamonjy Fanomezana¹, Sandy Ralisata², Patrick Raoliarison², Voahangy Razanakotomalala¹, Celestin Razafinjato¹, Jocelyn Razafindrakoto³, **Jehan Ahmed⁴**, Cara Smith Gueye⁴

¹National Malaria Control Program, Antananarivo, Madagascar, ²PMI Impact Malaria, Antananarivo, Madagascar, ³US President's Malaria Initiative, USAID, Antananarivo, Madagascar, ⁴PMI Impact Malaria, Washington, DC, United States

LB-5029

Utilization of positive malaria rapid diagnostic tests (mRDTs) for tracking, confirmation, speciation, and quantification by microscope examination in Zanzibar

Safia Mohammed Ali

Zanzibar Malaria Elimination Program, Zanzibar, United Republic of Tanzania

LB-5030

**Growth stage inhibition reversibility of the heme-
artemisinin adduct & other antimalarial drugs in
a pulse dose model in *P. falciparum* culture**

Victoria A. Balta¹, Wenchuan Ma², Jeffrey D. Rimer², Peter G. Vekilov², David J. Sullivan¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²University of Houston, Houston, TX, United States

LB-5031

A sub-national analysis of trends and drivers of malaria burden in the northern and central provinces of Mozambique

Baltazar Candrinho¹, Dominic Lucero², Sheila Ogoma², Eliza Walwyn-Jones², Nina Firas², Ana Rita Chico², Guidion N. Mathe¹, Arantxa Roca-Feltrer³, Rose Zulliger⁴, Abuchahama Saifodine⁴, Eva de Carvalho⁵, James Colborn²

¹National Malaria Control Program, Maputo, Mozambique, ²Clinton Health Access Initiative, Boston, MA, United States, ³Malaria Consortium, London, United Kingdom, ⁴US President's Malaria Initiative, USAID, Washington, DC, United States, ⁵World Health Organization, Maputo, Mozambique

LB-5032

Protecting Patients From Malaria Using a Data Analytics Application to Redistribute Health Commodities in Zambia

Darwin Chimenge¹, Christopher Mpundu², Mwiche Trevor Lungwe¹, Chiti Nseluka¹

¹GHSC-PSM, Lusaka, Zambia, ²Ministry of Health, Chongwe District Health Office, Lusaka, Zambia

LB-5033

Adapting monitoring and supervision approaches in a disruptive environment using SMS, WhatsApp, and electronic data collection tools for monitoring and supervision, GF Malaria Grant in Nigeria

Chinedu Chukwu¹, Joshua Emeni², Isaac Adejo¹, Melis Esi¹, Victoria Erinle¹, Mariah Boyd-Boffa³, Thomas Hall⁴, Sonachi Ezeiru⁵, Frank Oronsaye¹, Diwe Ekweremadu⁵, Perpetua Uhomobhi⁶, Chukwu Okoronkwo⁶, Festus Okoh⁶, Bolakale Kawu Issa⁶, James Ssekitooleko⁷

¹Management Sciences for Health, Abuja, Nigeria, ²Management Sciences for Health, Taraba, Nigeria, ³Management Sciences for Health, Medford, MA, United States, ⁴Management Sciences for Health, Arlington, VA, United States, ⁵Catholic Relief Services, Abuja, Nigeria, ⁶National Malaria Elimination Programme, Abuja, Nigeria, ⁷Global Fund to Fight AIDS, Tuberculosis and Malaria, Geneva, Switzerland

LB-5034

Assessing trends in severe malaria in children under 5 comparing malaria drug consumption data and hospital admission records, Liberia, 2015-2020

Eric Diboulo¹, D. Levi Hinneh², Victor S. Koko², O. Joseph Alade², Julius Gilayeneh², Oliver Pratt², Luke L. Bawo³, Jessica Kafuko⁴, Mamadou O. Diallo⁵, Agneta Mbithi⁶, Brittany Schriver Iskarpatyoti⁷, Yazoumé Yé⁸

¹U.S. President's Malaria Initiative Measure Malaria, Monrovia, Republic of Liberia- University of North Carolina at Chapel Hill/ICF, USA, Chapel Hill, NC, United States, ²National Malaria control Program (NMCP), Monrovia, Liberia, ³Health information systems, monitoring and evaluation and research unit (HMER), MOH, Monrovia, Liberia, ⁴U.S. President's Malaria Initiative, U.S. Agency for International Development (USAID), Monrovia, Republic of Liberia, Monrovia, Liberia, ⁵U.S. President's Malaria Initiative, US Centers for Disease Control and Prevention, Monrovia, Republic of Liberia, Monrovia, Liberia, ⁶U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, USA, Chapel Hill, NC, United States, ⁷U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill, USA., Chapel Hill, NC, United States, ⁸U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Chapel Hill, NC, United States

Poster Session A

Late-Breakers in Basic Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5035

Role model approach to explore caregiver administration of seasonal malaria chemoprevention drugs to children aged 3-59 months: results from a mixed methods multi-country study in Burkina Faso, Chad and Togo

Laura Donovan¹, Kevin Baker¹, Erica Viganò¹, Adama Traore², Cheick Compaore², Beakgoube Honoré³, Narcisse Tounaikok³, Fantche Awokou⁴, Muhammad Shafique⁵
¹Malaria Consortium, London, United Kingdom, ²Malaria Consortium, Ouagadougou, Burkina Faso, ³Malaria Consortium, N'Djamena, Chad, ⁴Malaria Consortium, Lomé, Togo, ⁵External consultant, Islamabad, Pakistan

LB-5036

Assessing Trends in Malaria Testing Practices Using Routine Data, Guinea, 2015-2021

Anne Griggs
U.S. President's Malaria Initiative, U.S. Centers for Disease Control and Prevention, Conakry, Guinea

LB-5037

Combining transgenesis with paratransgenesis to fight malaria

Wei Huang¹, Joel Vega-Rodriguez², Christopher Kizito¹, Sungjae Cha¹, Marcelo Jacobs-Lorena¹
¹Johns Hopkins University, Baltimore, MD, United States, ²National Institute of Allergy and Infectious Diseases, ROCKVILLE, MD, United States

LB-5038

Rollout of District Health Information Software 2 (DHIS2) Implementation and Improvement of Malaria Data Quality, Analysis, and Use in Madagascar

Fanor FJ JOSEPH¹, Moussa Mly Ly¹, Steve Ollis¹, Joëlson Zafiarimanga Ramboanasolondrainibe¹, Mamisoa Rasolo Ranaivonirina², Luc Narda Randrianahasina², Lova Avotra Ralijaona³, Brittany Schriver Iskarpatyoti⁴
¹John Snow Inc, Arlington, VA, United States, ²Ministère de la Santé Publique, Antananarivo, Madagascar, ³USAID/Madagascar, Antananarivo, Madagascar, ⁴University of North Carolina, Durham, NC, United States

LB-5039

Evaluation of a parasite-density based pooled targeted amplicon deep sequencing (TADS) method for molecular surveillance of P. falciparum drug resistance genes in Haiti

Swarnali Louha, Camelia Herman, Mansi Gupta, Dhruviben Patel, Julia Kelly, Je-Hoon M. OH, Janani Guru, Jean F. Lemoine, Michelle A. Chang, Eric Rogier, Eldin Talundzic
Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5040

Achieving improvements in malaria behaviors and behavioral determinants through integrated social and behavior change activities in Tanzania Mainland

Mark Lwakatare¹, Waziri Nyoni¹, Theresia Mrema¹, Prisca Rwezahura¹, Joseph Msofe¹, Godfrey Mwanakulya¹, Naomi Serbantez², Lulu Msangi²
¹FHI 360, DAR ES SALAAM, United Republic of Tanzania, ²U.S. President's Malaria Initiative, United States Agency for International Development, DAR ES SALAAM, United Republic of Tanzania

LB-5041

Innovations to prevent COVID-19 transmission during indoor residual spraying to control malaria transmission in Mudzi and Mutoko Districts, Zimbabwe

Tendayi Muchenje¹, Shadreck Sande¹, Wilson Chauke², Joseph Mberikunashe², Amen Gumbo¹, Hieronymo Masendu¹, Isaac Chikono¹, Peter Troell³, Christie Billingsley⁴, Regis Magauzi⁴, Bradley Longman⁵, Tiffany Clark⁵, Carmen Vilanova de Denys¹
¹PMI VectorLink Project, Abt Associates, Harare, Zimbabwe, ²National Malaria Control Program, Harare, Zimbabwe, ³U.S. President's Malaria Initiative, US Centers for Disease Control and Prevention, Harare, Zimbabwe, ⁴U.S. President's Malaria Initiative, USAID, Harare, Zimbabwe, ⁵PMI VectorLink Project, Abt Associates, Rockville, MD, United States

LB-5042

Highly parallel immunization to diversify malaria DNA vaccine responses

Sean C. Murphy¹, Brad C. Stone¹, Martha Sedegah²
¹University of Washington, Seattle, WA, United States, ²U.S. Naval Medical Research Center, Bethesda, MD, United States

Poster Session A

Late-Breakers in Basic Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5043

Low Sequence Heterogeneity of Plasmodium falciparum Isolates Imported to Ontario, Canada from West Africa over a 10-year Period with Increased Molecular Markers of Resistance to Proguanil

Akshat Pai¹, Rachel Lau², Michelle D. Dong³, Jason Kwan³, Ruwandi Kariyawasam⁴, Eric Shao³, Filip Ralevski², Andrea K. Boggild³

¹*Institute of Medical Science, University of Toronto, Toronto, ON, Canada*, ²*Public Health Ontario Laboratories, Toronto, ON, Canada*, ³*Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada*, ⁴*Division of Diagnostic & Applied Medicine, Department of Laboratory Medicine & Pathology, Faculty of Medicine & Dentistry, University of Alberta, Edmonton, AB, Canada*

LB-5044

A machine learning approach in predicting the high-risk area for P. knowlesi infections in association with environmental variations in Peninsular Malaysia

Wei Kit Phang¹, Mohd Hafizi Abdul Hamid², Jenarun Jelip², Rose Nani Mudin², Ting-Wu Chuang³, Yee Ling Lau¹, Mun Yik Fong¹

¹*University of Malaya, Kuala Lumpur, Malaysia*, ²*Ministry of Health Malaysia, Putrajaya, Malaysia*, ³*Taipei Medical University, Taipei, Taiwan*

LB-5045

Determination of Recrudescence vs. Reinfection, Complexity of Infection and Parasite Population Structure in Plasmodium falciparum Malaria using Genome-wide Molecular Inversion Probes in Ahero, Kenya

Zachary R. Popkin-Hall¹, David J. Giesbrecht², Oksana Kharabora¹, Ann M. Moormann³, Boaz Odwar⁴, Hoseah Akala⁴, John Michael Ong'echa⁴, Jeffrey A. Bailey², Jonathan J. Juliano¹

¹*University of North Carolina, Chapel Hill, NC, United States*, ²*Brown University, Providence, RI, United States*, ³*University of Massachusetts Medical School, Worcester, MA, United States*, ⁴*Kenya Medical Research Institute, Kisumu, Kenya*

LB-5046

Why sulfadoxine-pyrimethamine (SP) sensitive malaria parasites have not returned in Peru two decades after SP withdrawal? The role of Pfdhfr 50R mutation.

Carola J. Salas¹, Nessma A. Mahmoud², Pierre M. Ngougoue³, Christian Tsoungui², Stephen E. Lizewski¹, Christie A. Joya¹, Hugo O. Valdivia¹, David J. Bacon⁴, Kristan A. Schneider²

¹*US Naval Medical Research Unit No. Six, Lima, Peru*, ²*University of Applied Sciences, Mittweida, Germany*, ³*University of Applied Sciences, Mittweida, Germany*, ⁴*Military Infectious Disease Research Program, Fort Detrick, MD, United States*

LB-5047

mRNA vaccines expressing malaria transmission blocking antigens induce functional immune response in mice

Puthupparampil V. Scaria

NIH, Bethesda, MD, United States

LB-5048

Improving distribution of insecticide treated mosquito nets in Zanzibar through the DHIS2 Chandarua Kliniki Dashboard

Mavere Tukai¹, Mwinyi Issa Khamis², Alfred Mchau³

¹*Guidehouse, Dar es Salaam, United Republic of Tanzania*, ²*Zanzibar Malaria Elimination Program, Zanzibar, United Republic of Tanzania*, ³*VillageReach, Dar es Salaam, United Republic of Tanzania*

LB-5049

Binding and protection of human monoclonal antibody combinations specific for the central repeat and C-terminal domains of the Plasmodium falciparum circumsporozoite protein

Lawrence Tsuchun Wang¹, Lais S. Pereira¹, Arne Schön², Neville K. Kisalu¹, Rachel Vistein¹, Marlon Dillon¹, Brian G. Bonilla¹, Alvaro Molina-Cruz¹, Patience K. Kiyuka¹, Carolina Barillas-Mury¹, Azza H. Idris¹, Joseph R. Francica¹, Robert A. Seder¹

¹*NIH, Bethesda, MD, United States*, ²*Johns Hopkins University, Baltimore, MD, United States*

Poster Session 14
Poster Session A
Late-Breakers in Clinical and Applied Sciences
Thursday, November 18, 11 a.m. - 12:30 p.m.

Global Health.....	#LB-5050 through LB-5067
Kinetoplastida.....	#LB-5068 through LB-5080
Malaria	#LB-5081 through LB-5096
One Health: Interface of Human Health/Animal Diseases	#LB-5097 through LB-5104
Pneumonia, Respiratory Infections and Tuberculosis	#LB-5105 through LB-5112
Protozoa	#LB-5113 through LB-5119

LB-5050

Lifestyle Interventions for Neuropathic Pain in Leprosy

Layla Ahmed¹, Michael Klowak¹, Afia Birago¹, Arghavan Omid¹, Mark Lachman¹, Bethel Samson¹, Anacaona Hernandez¹, Milca Meconnen¹, Mahmud Sam¹, Adhiyat Najam¹, Anjola Ogunsia¹, Rachel Lau², Shveta Bhasker¹, Mariyam Mohammed¹, Ikeade Adeyinka¹, Raesham Mahmood³, Yashvi Bharwada¹, Andrea K. Boggild¹

¹Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ²Public Health Ontario Laboratories, Toronto, ON, Canada, ³Institute of Medical Science, University of Toronto, Toronto, ON, Canada

LB-5051

Undiagnosed SARS-CoV-2 infection and cardiovascular events in patients with acute MI but with no COVID-19 Symptoms

Zubair Akhtar¹, Fahmida Chowdhury¹, Mohammad Abdul Aleem¹, Probir Kumar Ghosh¹, Mahmudur Rahman², Mustafizur Rahman¹, Mohammad Enayet Hossain¹, A K M Monwarul Islam³, Mir Jamal Uddin³, C. Raina MacIntyre⁴, Sara Cajander⁵, Ole Frobert⁵
¹icddr, Dhaka, Bangladesh, ²Global Health Development/EMPHNET, Dhaka, Bangladesh, ³National Institute of Cardiovascular Diseases Dhaka (NICVD), Dhaka, Bangladesh, ⁴University of New South Wales, Sydney, Australia, ⁵Orebro University, Orebro, Sweden

LB-5052

Clinical characteristics and health seeking behaviors among high-risk children 2-23 months with acute diarrhea presenting to facilities in Western Kenya

Hannah E. Atlas¹, Emily L. Deichsel², Churchil O. Nyabinda³, Christine J. McGrath¹, Judd L. Watson¹,

Patricia B. Pavlinac¹, Benson O. Singa³

¹University of Washington, Seattle, WA, United States, ²University of Maryland, Baltimore, Baltimore, MD, United States, ³Centre for Clinical Research, Kenya Medical Research Institute, Nairobi, Kenya

LB-5053

Combining SMC campaign with EPI monitoring to maximize efforts: a way towards improving value for money

Djeneba Coulibaly-Traore¹, Eugene Kaman Lama², Soua Goumou¹, Chrestien Yameni³, Suzanne Van Hulle⁴

¹Catholic Relief Services, Conakry, Guinea, ²Program National de Lutte Contre le Paludisme, Conakry, Guinea, ³Catholic Relief Services, Dakar, Senegal, ⁴Catholic Relief Services, Baltimore, MD, United States

LB-5054

Health Risks, Nutrition-Related Knowledge, and Supplement Use Among the Filipino Diaspora: Initial Results from UCL Pinoy Food and Health 2020 [UCL Study 18363/001]

Marianne Jennifer Datiles, Vivienne Lo, Michael Heinrich
 University College London, London, United Kingdom

Poster Session A**Late-Breakers in Clinical and Applied Sciences**

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5055**Implications and consequences of belief in SARS-CoV-2 transmission by mosquitoes in the Americas**

Timothy De Ver Dye¹, Adriana Troyo², José Pérez Ramos¹, Esteban Avendaño¹, Carmen Di Mare³, Fabio Sanchez², Eugenia Corrales-Aguilar², Juan Barrios⁴
¹University of Rochester School of Medicine and Dentistry, Rochester, NY, United States, ²Universidad de Costa Rica, San José, Costa Rica, ³Universidad de Ciencias Médicas, San José, Costa Rica, ⁴University of Barcelona, Barcelona, Spain

LB-5056**Exploring hospital readiness for implementing the National TB infection control guidelines in two public tertiary care hospitals, Bangladesh**

Md Saiful Islam¹, Sayeeda Tarannum², Sayera Banu², Kamal Ibne Amin Chowdhury², Arifa Nazneen², Abrar Ahmad Chughtai¹, Holly Seale¹
¹University of New South Wales, Sydney, Australia, ²International Centre for Diarrheal Diseases Research, Bangladesh, Dhaka, Bangladesh

LB-5057**Lifestyle Interventions for Neuropathic Pain: Evaluation of the HEALM Quality Assessment Tool**

Michael Klowak¹, Celine Lecce¹, Ranie Ahmed¹, Raesham Mahmood¹, Aquilla Reid¹, Ikeade Adeyinka¹, Rachel Lau², Shaleesa Clarke¹, Shveta Bhasker¹, Mariyam Mohammed¹, Katherine Tan¹, Jahmar Hewitt¹, Andrea K. Boggild¹
¹Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ²Public Health Ontario Laboratories, Toronto, ON, Canada

LB-5058**Estimating population ITN access at the council level in Tanzania using stock & flow models**

Hannah Koenker¹, Matt Worges², Peter Gitanya³, Frank Chacky³, Benjamin Kamala⁴, Deodatus Mwingizi⁴, David Dadi⁴, Naomi Serbantez⁵, Joshua O. Yukich²
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Program, Ministry of Health, Community Development, Gender, Elderly, and Children, Dar es Salaam, United Republic of Tanzania, ⁴PMI Tanzania Vector Control Activity, Johns Hopkins University Center for Communication Programs, Dar es Salaam, United Republic of Tanzania, ⁵U.S. President's Malaria Initiative, USAID, Dar es Salaam, United Republic of Tanzania

LB-5059**Climate change and human health in sub-Saharan Africa: Predicted disease trends**

Olivia S. Macfadden¹, Paul G. Ashigbie², Betty Nabatte³, Jonathan M. Spector²
¹Swiss Tropical And Public Health Institute, Basel, Switzerland, ²Novartis Institute for Tropical Diseases, Emeryville, CA, United States, ³Vector Control Division, Ministry of Health, Kampala, Uganda

LB-5060**Comparing the Seasonality of Dengue and Malaria in Thailand**

Reiden Magdaleno¹, Kevin M. Bakker²
¹University of Michigan, Ann Arbor, MI, United States, ²University of Michigan School of Public Health, Department of Epidemiology, Ann Arbor, MI, United States

LB-5061**A novel framework based on a set of ten quality standards to measure the quality and program performance of seasonal malaria chemoprevention delivery**

Madeleine Marasciulo¹, Helen Counihan², Blanka Homolova², Sol Richardson², Olatunde Adesoro³, Matthieu Baudry², Christian Rassi²
¹Malaria Consortium, Raleigh, NC, United States, ²Malaria Consortium, London, United Kingdom, ³Malaria Consortium, Abuja, Nigeria

LB-5062**Impact and scale-up of an open-source digital geospatial platform in Sokoto State, Nigeria**

Christina M. Riley¹, Taiwo Ibinaiye², Shiwan Dlakwa², Okoro Buchi³, Poppy Farrow⁴, Frazer Bwalya¹, Anna Winters¹
¹Akros Inc, Lusaka, Zambia, ²Malaria Consortium, Abuja, Nigeria, ³National Malaria Elimination Program, Abuja, Nigeria, ⁴Malaria Consortium, London, United Kingdom

Poster Session A

Late-Breakers in Clinical and Applied Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5063

Depression and anxiety in discharged post COVID-19 patients: a prospective study

Andrea Aracely Romero Moguel, Xavier Rios-Covian Molina, Ana Cecilia Canto Costal, Nina Mendez-Dominguez, Roberto Cambranes, Roberto Carlos Pech-Argüelles, Jorge Carlos Guillermo, Rafael Martinez-Hernandez

Hospital Regional de Alta Especialidad de la península de Yucatán, Mérida, Mexico

LB-5064

Second Generation Health Posts: Impact on access to primary health care in rural Rwanda

Donald S. Shepard¹, Katherine R. Rowlands¹, Yara A. Halasa-Rappel¹, Wu Zeng², Sabine F. Musange³

¹Brandeis University, Waltham, MA, United States, ²Georgetown University, Washington, DC, United States, ³National University of Rwanda School of Public Health, Kigali, Rwanda

LB-5065

Rapid Diagnostic Test for Buruli Ulcer: Innovative Technology to Detect Mycolactone in Wound Swab Extracts.

Marina Siirin¹, Bijan Pedram¹, Louisa Warryn², Jessica Porter³, Rie Yotsu⁴, Marta Fernandez-Suarez⁵, Timothy Stinear³, Israel Cruz-Mata⁵, Dziejzom Komi de Souza⁵, Gerd Pluschke², Marco Biamonte¹

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LB-5066

Evaluating immunogenicity of a birth dose of Hepatitis B vaccine in the Democratic Republic of Congo

Samantha E. Tulenko¹, Patrick Ngimbi², Kashamuka Mwandagilirwa², Noro L. Ravelomanana², Martine Tabala², Malongo Fathy², Bienvenu Kawende², Charles Mbendi³, Christophe Luhata⁴, Ravi Jhaveri⁵, Gavin Cloherty⁶, Didine Kaba², Marcel Yotebieng⁷, Jonathan B. Parr⁸, Peyton Thompson⁹

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Chapel Hill, NC, United States, ²Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, ³Department of Gastroenterology, University Hospital, Kinshasa, Democratic Republic of the Congo, ⁴Expanded Programme on Immunisation, Kinshasa, Democratic Republic of the Congo, ⁵Department of Pediatrics, Division of Infectious Diseases, Northwestern University Feinberg School of Medicine, Chicago, IL, United States, ⁶Abbott Laboratories, Abbott Park, IL, United States, ⁷Division of General Internal Medicine, Department of Medicine, Albert Einstein College of Medicine, Bronx, NY, United States, ⁸Division of Infectious Diseases, Department of Medicine, University of North Carolina - Chapel Hill, Chapel Hill, NC, United States, ⁹Division of Infectious Diseases, Department of Pediatrics, University of North Carolina, Chapel Hill, Chapel Hill, NC, United States

LB-5067

De-colonizing Global Health in U.S. Undergraduate Tropical Medicine Courses - report on a pilot exercise

Fartuun Sheygo, Rebekah Reynolds, Class of 2021 Microbiology 460, Sean C. Murphy
University of Washington, Seattle, WA, United States

LB-5068

Reactivation of New World Tegumentary Leishmaniasis Following Iatrogenic Immunosuppression: A Systematic Review of Secondary Prophylaxis

Ikeade Adeyinka¹, Katherine Tan¹, Ruwandi Kariyawasam², Angelica Vidal¹, Milca Miconnen¹, Bethel Samson¹, Mahmud Sam¹, Aisha Khatib¹, Avinash Mukkala³, Celine Lecce¹, Christian Lecce¹, Shveta Bhasker¹, Eric Shao¹, Anacaona Hernandez¹, Raesham Mahmood³, Andrea K. Boggild¹

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LB-5069

Transfusion Transmitted Leishmaniasis: Leishmania Detection in the Blood Supply and Associated Risk Factors

Alexandra Atayde¹, Shareese Clarke¹, Ruwandi Kariyawasam¹, Rachel Lau², Olamide Egbewumi¹, Andrea K. Boggild¹

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Poster Session A

Late-Breakers in Clinical and Applied Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5070

Ethnopharmaceuticals for the Treatment of Cutaneous Leishmaniasis of the Old World

Shveta Bhasker¹, Ruwandi Kariyawasam², Michael Klownik³, Priyanka Challa¹, Eric Shao¹, Jason Kwan¹, Hira Raheel¹, Swana Kopalakrishnan¹, Arghavan Omid¹, Emma Hagopian¹, Tianna Chong-Kit¹, Anjola Ogunsina¹, Olamide Egbewumi¹, Sonia Igboanugo¹, Paul Dunn¹, Shareese Clarke¹, Amanda Pereira¹, Andrea K. Boggild¹

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LB-5071

The Influence of Infection by Different Leishmania braziliensis Isolates on the Pathogenesis of Disseminated Leishmaniasis

Edgar M. Carvalho

Federal University of Bahia/FIOCRUZ-BAHIA, Salvador, Brazil

LB-5072

Effectiveness of Mobile Application for monitoring Cutaneous Leishmaniasis treatment in Colombia

Alexandra Cossio¹, Alejandra Maria Del Castillo¹, Andrés Navarro², Martha Milena Bautista¹, Maria del Mar Castro¹, Patricia Yaneth Castaño-Grajales¹, Yeison Hawer Gutiérrez-Poloche¹, Neal Alexander¹, Nancy Gore Saravia¹

¹Centro Internacional de Entrenamiento e Investigaciones Médicas, CIDEIM, Cali, Colombia, ²Universidad Icesi, Cali, Colombia

LB-5073

Mass Balance, Pharmacokinetics and Excretion of Acoziborole, a Potential Novel Treatment for Human African Trypanosomiasis, Following Single Oral Dose to Healthy Subjects

Jean-Yves Gillon¹, Francois Simon¹, Sharan Sidhu², Mathieu Louis¹, Delphine Launay¹, Sandra Rembray¹, Valérie Wauthier³, Lotte Van Andel⁴, Sabrina Loyau⁵, Antoine Tarral¹

¹DNDi, Geneva, Switzerland, ²Quotient, Nottingham, United Kingdom, ³SGS Belgium SA, Wavre, Belgium, ⁴TNO, Leiden, Netherlands, ⁵PhinC Development, Evry, France

LB-5074

Antileishmanial activity of selected Palestinian medicinal plants

Omar Hamarsheh, Ahmad Amro

Al-Quds University, Abu Dies, Palestinian Territory

LB-5075

Analysis in the need of improvement in the health care system for Chagas disease in Japan

Inés María Iglesias Rodríguez¹, Sachio Miura²,

Takuya Maeda³, Clara Vásquez Velásquez⁴, Sumihisa Honda⁵, Kazuo Imai⁶, Taeko Naruse⁷, Kenji Hirayama⁸
¹School of Tropical Medicine and Global Health, Nagasaki University, Nagasaki, Japan, ²NPO-MAIKEN, Tokyo, Japan, ³Department of Microbiology, Saitama Medical University, Saitama, Japan, ⁴Department of Parasitology, Graduate School of Medicine, Osaka City University, Osaka, Japan, ⁵Department of Nursing Sciences, Graduate School of Biomedical Science, Nagasaki University., Nagasaki, Japan, ⁶Department of Infectious Disease and Infection Control, Saitama Medical University, Saitama, Japan, ⁷Department of Protozoology, Institute of Tropical Medicine (NEKKEN), Nagasaki University, Nagasaki, Japan, ⁸Department of Immunogenetics, NEKKEN, Nagasaki University, Nagasaki, Japan

LB-5076

Accuracy of Diagnostics in New World Tegumentary Leishmaniasis: A Systematic Review

Ruwandi Kariyawasam¹, Melissa Phuong², Rachel Lau³, Robert Chris⁴, Eric Shao⁴, Camille Renee⁴, Sonia Igboanugo⁴, Tianna Chong-Kit⁴, Rahel Zewude⁴, Hira Raheel⁴, Sharmistha Mishra⁵, Andrea K. Boggild⁴

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Poster Session A

Late-Breakers in Clinical and Applied Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5077

Ethnopharmaceuticals for the Treatment of Cutaneous Leishmaniasis of the New World

Jason Kwan¹, Shveta Bhasker¹, Ruwandi Kariyawasam², Michael Klowak³, Anjola Ogunsin¹, Olamide Egbewumi¹, Sonia Igboanugo¹, Shareese Clarke¹, Paul Dunn¹, Avinash Mukkala³, David Harris¹, Andrea K. Boggild¹
¹Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ²Division of Diagnostic & Applied Medicine, Department of Laboratory Medicine & Pathology, Faculty of Medicine & Dentistry, University of Alberta, Edmonton, AB, Canada, ³Institute of Medical Science, University of Toronto, Toronto, ON, Canada

LB-5078

A Systematic Review of Virulence Factors in Old World Leishmania species

Osaru Omoruna, Avinash N. Mukkala, Ruwandi Kariyawasam, Eric Shao, Priyanka Challa, Michael Klowak, Shareese Clarke, Jamie Sookhoo, Dylan Kain, Tianna Chong-Kit, Olamide Egbewumi, Andrea K. Boggild
Tropical Disease Unit, Toronto General Hospital and University of Toronto, Toronto, ON, Canada

LB-5079

Acoziborole, a new single-dose oral treatment for sleeping sickness: results of pivotal phase II/III study in adult patients

Antoine Tarral¹, Victor Kande Betu Ku Meso², Mariama Camara³, Wilfried Mutombo Kalonji⁴, Digas Ngolo Tete⁴, Sandra Rembray¹, Adeline Pretre¹, Olaf Valverde Mordt¹, Medard Ilunga Wa Kyhi⁵, Joseph Makaya², Felix Akwaso Masa², Lewis Kaninda Badibabi², Papy Kavunga Lukula², Sylvain Mutanda Kalonji², Augustin Kasongo Bonama², Hugues Embana Mankiara², Ricardo Mokilifi Nanganyonyi², Vincent Kobo Muanza², Ernest Mulenge², Aimée Fifi Nzeza Bambuwo², Bruno Scherrer⁶, Nathalie Strub-Wourgaft¹
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LB-5080

Reactivation of Old World Tegumentary Leishmaniasis Following Iatrogenic Immunosuppression: A Systematic Review of Secondary Prophylaxis

Angelica Vidal¹, Katherine Tan¹, Ruwandi Kariyawasam², Ikeade Adeyinka¹, Raesham Mahmood³, Aisha Khatib¹, Avinash Mukkala³, Celine Lecce¹, Christian Lecce¹, Shveta Bhasker¹, Eric Shao¹, Andrea K. Boggild¹
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LB-5081

Effect of malaria parasites infection on CD4 cells, haemopoietic cells & haemopoietic factors

Emmanuel C. Amadi¹, Emmanuel A. Eze², Vincent N. Chigor³, Chukwuemeka C. Nwangwu¹, Adaora J. Amaechi¹
¹Enugu State University of Science and Technology, GRA, Enugu, Nigeria, ²University of Nigeria, Nsukka, Enugu state, Nigeria, ³University of Nigeria, Nsukka, Enugu state, Nigeria

LB-5082

Taking malaria microscopy training of laboratory technicians into reference hospitals in Côte d'Ivoire

Jean Louis Assa¹, Mamadou Toure¹, Assienin N'Guessan², Méa Antoine Tanoh², Colette Kokrasset Yah², Serge Brice Assi², Mamadou Silue¹, Eric N. Akattia¹, Renion Saye³, Julie Buekens³, Jordan M. Smith³, Charlotte Eddis⁴
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Poster Session A

Late-Breakers in Clinical and Applied Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5083

Mosquito net knowledge, ownership, use, acceptability and preferences among primary caregivers of children U5, pregnant women and household heads in Cote d'Ivoire

Edouard C. Balogoun¹, Manasse N. Kassi¹, Philomène A. Beda¹, Serge B. Assi², Jacob Y. Agniman¹, Florence Kadjo-Kouadio³, Michel N'da-Ezoa⁴, Aristide E. Kouadio¹, Joel Koffi¹, Apollinaire N. Kouadio¹, Paul Bouey⁵, Sara Canavati⁵, Eric Swedberg⁵
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LB-5084

Prevalence of subclinical Plasmodium falciparum infection among pregnant women and infants in Montserrado and Margibi Counties, Liberia

Kumblytee L. Johnson¹, **David M. Cook**², Dehkontee Dennis¹, Esther Akpa², Moses Badio¹, Nannie Kenyen¹, Dorothy Mangou¹, Louvina Sumbo¹, Julie Blie¹, John Fayiah³, Elvis Towalid³, Michael Chea³, George Smith¹, Nuemeni Cope¹, John McCullough¹, Victor S. Koko⁴, Jillian Neal², Irfan Zaidi², Jennifer Kwan², Bruce Swihart², Fatorma K. Bolay³, Mosoka Fallah¹, Patrick E. Duffy²
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LB-5085

Zooprophylaxis-Aided Ivermectin-Based Vector Elimination (ZAIIVE), a Randomized Village-Based Entomological Trial, Central Viet Nam

Estee Y. Cramer¹, Nguyen Xuan Quang², Jeffrey C. Hertz³, Do Van Nguyen⁴, Huynh Hong Quang⁴, Ian Mendenhall⁵, Andrew A. Lover¹
¹University of Massachusetts - Amherst, Amherst, MA, United States, ²Institute for Malariology, Parasitology and Entomology, Ministry of Health, Quy Nhon, Viet Nam, ³U.S. Naval Medical Research Unit TWO, Singapore, ⁴Institute for Malariology, Parasitology and Entomology, Ministry of Health, Quy Nhon, Viet Nam, ⁵Programme in Emerging Infectious Diseases, Duke-NUS Medical School, Singapore

LB-5086

To what extent are the antimalarial markets in African countries ready for a transition to Triple Artemisinin-based Combination Therapies?

Freek de Haan

Utrecht University, Utrecht, Netherlands

LB-5087

Factors predicting adherence to day 2 and day 3 seasonal malaria chemoprevention administration in four Sahelian countries

Taiwo Ibinaiye, Chibuzo Oguoma, Aadaeze Aidenagbon, Olabisi Ogunmola, Olusola Oresanya, Sol Richardson
Malaria Consortium, Maitama, Nigeria

LB-5088

Coverage of Antenatal Care and Intermittent Preventive Treatment in Pregnancy in San Mali

Kassoum Kayentao¹, Sory I. Diawara¹, Julie R. Gutman², Samba Diarra¹, Celia Woodfill³, Jules Mihigo⁴, Moussa Niangaly¹, Moussa Djimde¹, Mohamed Keita¹, Balla Bagayogo¹, Abraham Tembely¹, Mamadou Samake¹, Almamy Traore¹, Aissata Ongoiba¹, Fady Toure¹, Abdoulaye Djimde¹, Boubacar Traore¹
¹University of Sciences, Techniques, and Technologies of Bamako, Bamako, Mali, ²Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, USA, Atlanta, GA, United States, ³President's Malaria Initiative, Centers for Disease Control and Prevention, Bamako, Mali, ⁴President's Malaria Initiative, United States Agency for International Development, Bamako, Mali, Bamako, Mali

LB-5089

The Outreach Training and Supportive Supervision Plus approach improves provider skills and district performance in delivering quality malaria services in Côte d'Ivoire

Colette Kokrasset Yah¹, Jacques Agnon¹, Xavier Bogui¹, Mea Antoine Tanoh¹, Eric Akattia², Jean Louis Assa², Mamadou Silue², Charlotte Eddis³, Jacques K. N'Dri⁴, Mathurin Dodo⁵, Cyprien Nioble⁴, Katherine Wolf⁵
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Poster Session A

Late-Breakers in Clinical and Applied Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5090

Intercurrent Flaviviral Viremia and Plasmodium vivax and Plasmodium ovale Infections in Ill-Returned Travelers to Ontario

Raesham Mahmood¹, Katherine Tan², Ruwandi Kariyawasam³, Rachel Lau⁴, Andrea K. Boggild²
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LB-5091

Evaluating Malaria Transmission Intensity and Malaria Control Interventions Usage Across RTS,S Malaria Vaccine Evaluation Sites in Four Sub-Saharan African Countries: Results from Three Cross-Sectional Surveys Prior to Vaccine Introduction Conducted Between 2016-2019

Latif Ndeketa¹, the Epi-Malaria-005 study group
¹Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi

LB-5092

Community Engagement for a Successful Mass Drug Administration Campaign to Reduce Malaria Incidence in Southeast Senegal

Tidiane Gadiaga¹, Siré Sagna¹, Bayal Cissé¹, Boubacar Diallo¹, Urbain Ithiar Bonang¹, Alioune Badara Gueye², Fatou Ba³, Seynabou Gaye³, Ibrahima Diallo³, Doudou Sene³, Tidiane Ndoeye⁴, Aminata Colle Lo⁵, Abdoulaye Diallo⁵, Sylla Thiam⁵, Elhadji Ba Konko Ciré⁵, Elhadji Diouf⁶, Michelle E Roh⁶, Cara Smith-Gueye⁶, Tabitha Kibuka⁷, Roly Gosling⁶, Michelle S Hsiang⁶, **Jean Louis Ndiaye**⁵

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LB-5093

Preclinical Development of the Nanoparticle Malaria Transmission Blocking Vaccine Pfs230D1-EPA/Matrix-M™ Adjuvant

Kelly M. Rausch¹, David L. Narum¹, Irfan Zaidi¹, Jenny M. Reimer², Emma K. Barnafo¹, Lynn Lambert¹, Sachy Orr-Gonzalez¹, Tarik Ouahes¹, Brandi Butler¹, Raul Herrera¹, Karine Reiter¹, Deepika Seethamraju¹, Richard Shimp¹, Olga Muratova¹, Nada Alani¹, Jennifer Hume¹, Nicholas J. MacDonald¹, Daming Zhu¹, Puthupparampil V. Scaria¹, Gale Smith³, Greg M. Glenn³, Patrick E. Duffy¹

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LB-5094

Outreach ANC in Côte d'Ivoire leads to improvements in the coverage of IPTp3 in pregnant women

Antoine Mea Tanoh¹, Colette Kokrasset Yah¹, Jacques Agnon¹, Monne Thérèse Bleu¹, Mamadou Sillue², Jean Louis Assa², Eric N. Akattia², Henri Kpai², Erve Marius Onane², Katherine Wolf³, Charlotte Eddis⁴
¹National Malaria Control Program, Ministry of Health, Abidjan, Côte D'Ivoire, ²PMI Impact Malaria, PSI, Abidjan, Côte D'Ivoire, ³PMI Impact Malaria, Jhpiego, Baltimore, MD, United States, ⁴PMI Impact Malaria, PSI, Washington, DC, United States

LB-5095

Status of malaria microscopy quality assurance in Zanzibar: baseline results from malaria service and data quality improvement (MSDQI) assessment

Goodluck Tesha¹, Stella Makwaruzi¹, Sigsibert Mkude², Chonge Kitojo³, Naomi Serbantez³, Joseph Shija⁴, Kanuth Dimoso², Saidi Mgata², Katherine Wolf⁵, Charlotte Eddis⁶, Joseph Mugasa²

¹PMI Impact Malaria, Jhpiego, Dar es salaam, United Republic of Tanzania, ²PMI Impact Malaria, PSI, Dar es salaam, United Republic of Tanzania, ³U.S. President's Malaria Initiative, USAID, Dar es salaam, United Republic of Tanzania, ⁴Zanzibar Malaria Elimination Program, Zanzibar City, United Republic of Tanzania, ⁵PMI Impact Malaria, Jhpiego, Baltimore, MD, United States, ⁶PMI Impact Malaria, PSI, Washington, DC, United States

Poster Session A

Late-Breakers in Clinical and Applied Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5096

Initial Evaluation of Three Different Doses of Point-of-Injection (POI) Conjugated Pfs230D1-EPA Formulated with Matrix-M™ Adjuvant

Daming Zhu¹, Holly McClellan¹, Weili Dai¹, Brendon Carnell¹, Jenny Jenny M. Reimer², Kelly M. Rausch¹, David L. Narum¹, Gale Smith³, Greg M. Glenn³, Patrick E. Duffy¹

¹Laboratory of Malaria Immunology and Vaccinology, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, United States, ²Novavax AB, Uppsala, Sweden, ³Novavax, Inc., Gaithersburg, MD, United States

LB-5097

LmInfiltrinas New Targets for Vaccination

Abdulaziz Alouffi¹, Mashal Almutairi²

¹King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia, ²College of Pharmacy, Department of Pharmacology, King Saud University, Riyadh, Saudi Arabia

LB-5098

Bovine fascioliasis A silent threat to human health in Amazonas, Peru

Clavel Diaz Quevedo, José Américo Saucedo Uriarte, Julio Sandoval Bances, Rafael Tapia Limonchi, Stella M. Chenet Carrasco, Juan R. Tejedo
Universidad Nacional Toribio Rodríguez de Mendoza de Amazonas, Chachapoyas, Peru

LB-5099

Linking rattiness, geography and environmental degradation to spillover Leptospira infections in marginalised urban settings

Max T. Eyre¹, Fábio N. Souza², Ticiania S. Carvalho-Pereira³, Nivison Nery Jr.⁴, Daiana de Oliveira³, Jaqueline S. Cruz³, Gielson A. Sacramento³, Hussein Khalil⁵, Kathryn Hacker⁶, Elsie A. Wunder Jr⁷, James E. Childs⁷, Mitermayer G. Reis⁸, Mike Begon⁹, Peter J. Diggle¹, Albert I. Ko⁷, Emanuele Giorgi¹, Federico Costa³

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Philadelphia, PA, United States, ⁷Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, ⁸Fiocruz, Salvador, Brazil, ⁹Department of Evolution, Ecology and Behaviour, University of Liverpool, Liverpool, United Kingdom

LB-5100

Communicating increased risk for rabies transmission in Haiti to travelers

Amber Kunkel¹, Jesse Blanton², Ashley Brown², Michelle Decentececo³, Jeffrey B. Nemhauser², Brett W. Petersen⁴, Emily Pieracci³, Robin Rinker², Ryan Wallace⁴, Zoe Zelaya³

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LB-5101

Horsing Around with IPAC Measures: When Paradigms Abhor a Vacuum

Camille Renee, Sonia Igboanugo, Dylan Kain, Andrew Peregrine, Evan Belsky, Andrea K. Boggild
Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada

LB-5102

Gaming4Health - Developing serious games to control Taenia solium

Chiara Trevisan¹, Martin Valcke², Kabemba Evans Mwape³, Pierre Donry⁴, Sarah Gabriël⁵

¹Department of Veterinary Public Health and Food Safety, Ghent University & Department of Biomedical Science, Institute of Tropical Medicine, Antwerp, Belgium, ²Department of Educational Studies, Ghent University, Ghent, Belgium, ³Department of Clinical Studies, School of Veterinary Medicine, University of Zambia, Lusaka, Zambia, ⁴Department of Biomedical Science, Institute of Tropical Medicine, Antwerp, Belgium, ⁵Department of Veterinary Public Health and Food Safety, Ghent University, Belgium, Merelbeke, Belgium

Poster Session A

Late-Breakers in Clinical and Applied Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5103

GPS tracking of free-range pigs in rural communities in Zambia: an explorative study towards future ring treatment strategies for *Taenia solium*

Inge Van Damme¹, Ian Pray², Kabemba Evans Mwape³, Chiara Trevisan⁴, Fien Coudenys¹, Victor Vaernewyck¹, Pierre Dorny⁵, Seth O'Neal², Sarah Gabriël¹

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LB-5104

Environmental Contamination of Gastrointestinal Parasites and Their Relation to Poverty in the Southern U.S.

Sally M. Yan¹, Roumen B. Iordanov¹, Nicholas S. Herrera¹, Mark D. Bailey¹, Catherine Flowers², Christine C. Blackburn³, Rojelio Mejia¹

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LB-5105

Soluble T cell immunoglobulin and mucin-domain containing protein 3 in children hospitalized with pneumonia in resource-limited settings

Usman Ahmed¹, Jeremy Soo¹, Andrea Conroy², Sophie Namasopo³, Robert Opoka⁴, Ravi Bhargava⁵, Michael Hawkes¹

¹Department of Pediatrics, University of Alberta, Edmonton, AB, Canada, ²Ryan White Center for Pediatric Infectious Disease & Global Health, Indianapolis, IN, United States, ³Department of Pediatrics, Jinja Regional Referral Hospital, Jinja, Uganda, ⁴Department of Paediatrics and Child Health, Mulago Hospital and Makerere University, Kampala, Uganda, ⁵Department of Radiology and Diagnostic Imaging, University of Alberta, Edmonton, AB, Canada

LB-5106

Performance of biomarkers of immune and endothelial activation to risk stratify Mozambican children with pneumonia

Núria Balanza¹, Clara Erice², Michelle Ngai³, Chloe R. McDonald³, Andrea Weckman³, Julie Wright³, Melissa Richard-Greenblatt⁴, Bàrbara Baro¹, Rosauero Varo¹, Lola Madrid¹, Sozinho Acácio⁵, Miguel Lanaspá¹, Kevin C. Kain³, Quique Bassat¹

¹ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, ²Johns Hopkins School of Medicine, Baltimore, MD, United States, ³Sandra-Rotman Centre for Global Health, Toronto General Research Institute, University Health Network-Toronto General Hospital, Toronto, ON, Canada, ⁴Department of Pathology and Laboratory Medicine, University of Pennsylvania, Pennsylvania, PA, United States, ⁵Centro de Investigação em Saúde de Manhiça, Manhiça, Mozambique

LB-5107

Factors associated with unfavorable tuberculosis first-line treatment in Bamako, Mali.

Bassirou Diarra¹, Mahamadou Kone¹, Yeya dit Sadio Sarro¹, Mohamed Tolofoudie¹, Amadou Somboro¹, Boureima Degoga¹, Gagni Coulibaly¹, Fatimata A. Diallo¹, Antieme Combo Togo¹, Moumine Sanogo¹, Bocar Baya¹, Katy Shaw-Saliba², Seydou Doumbia¹, Souleymane Diallo¹

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LB-5108

Anticipating the future: prognostic tools as a complementary strategy to improve care for patients with febrile illnesses in resource-limited settings

Arjun Chandna¹, Jennifer Osborn², Quique Bassat³, David Bell⁴, Sakib Burza⁵, Valérie D'Acremont⁶, B. Leticia Fernandez-Carballo², Kevin C. Kain⁷, Mayfong Mayxay⁸, Matthew O. Wiens⁹, **Sabine Dittrich**²

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Poster Session A

Late-Breakers in Clinical and Applied Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5109

Interleukin-18 binding protein in children hospitalized with pneumonia in low-resource settings

Emily Konrad¹, Jeremy Soo¹, Andrea L. Conroy², Sophie Namasopo³, Robert O. Opoka⁴, Michael T. Hawkes¹

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LB-5110

Prevalence Of Latent TB Infection Among Critically Ill COVID-19 Population In a Tertiary Teaching Hospital In Mexico

SANTIAGO MONTIEL, Benjamin Valente
Centro Médico ABC, CIUDAD DE MEXICO, Mexico

LB-5111

Effect of TiO₂ in an in vitro granuloma system for M. tuberculosis

Victoria K. Nguyen¹, Jose Barragan¹, So-Yoon Lee², Jorge Cervantes¹

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LB-5112

Options for improving uptake of isoniazid preventive therapy for tuberculosis patients in Bamako/Mali

Antieme Combo Georges Togo¹, Mohamed Tolofoudie¹, Amadou Somboro¹, Bassirou Diarra¹, Yeya Sadio Sarro¹, Hawa Baye Drame², Saliba Katy³, Souleymane Diallo¹, Seydou Doumbia¹, Mariam Sylla⁴
¹University Clinical Research Center (UCRC), University of Sciences, Techniques and Technologies of Bamako (USTTB), Bamako, Mali, Bamako, Mali, ²University Clinical Research Center (UCRC), University of Sciences, Techniques and Technologies of Bamako (USTTB), Bamako, Mali, Bamako, Mali, ³Collaborative Clinical Research Branch, Division of Clinical Research, NIAID/NIH, Bethesda, MD, USA, Bethesda, BC, United States, ⁴Department of pediatric of University Teaching Hospital of Gabriel Toure, Bamako, Mali, Bamako, Mali

LB-5113

Treatment of Intestinal Protozoa in Pregnancy: A Systematic Review of Maternal, Fetal and Infant Outcomes

Sonia Igboanugo¹, Sufiat Fusigboye¹, Saniya Mansuri¹, Rachel Lau², Swana Kopalakrishnan¹, Celine Lecce¹, Robert Chris¹, Aisha Khatib¹, Sharmistha Mishra¹, Andrea K. Boggild¹

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LB-5114

Long COVID Syndrome and Toxoplasma gondii Reactivation: a Thinkable Link

LIDIA LAZAR¹, Ionela Neagoe², Corina Constatin³, Suzana Cilievici¹

¹University of Medicine & Pharmacy "Carol Davila"; Colentina University Hospital, Bucharest, Romania, ²University of Medicine & Pharmacy "Carol Davila"; Cantacuzino Institute- Parasitology Department Colentina University Hospital, Bucharest, Romania, ³Colentina University Hospital, Bucharest, Romania

LB-5115

Inactivation of Cryptosporidium Oocysts for Use in Immunological and Molecular Assay Applications

Robert E. Molestina, Biniam Hagos
ATCC, Manassas, VA, United States

LB-5116

Could malaria striggers extrapulmonary tuberculosis?

Fatou K. Ndiaye, Mamadou A. Diallo
Cheikh Anta Diop University, Dakar, Senegal

Poster Session A

Late-Breakers in Clinical and Applied Sciences

Thursday, November 18, 11 a.m. - 12:30 p.m.

LB-5117

Accuracy of Diagnostics in Old World Tegumentary Leishmaniasis: A Systematic Review

Anjola Ogunsina¹, Melissa Phuong¹, Rachel Lau², Robert Chris¹, Eric Shao¹, Angela Correia¹, Camille Renee¹, Ruwandi Kariyawasam³, Sonia Igboanugo¹, Tianna Chong-Kit¹, Rahel Zewude¹, Hira Raheel¹, Yosi Ladipo¹, Peola Ellis¹, Sharmistha Mishra¹, Andrea K. Boggild¹

¹Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ²Public Health Ontario Laboratories, Toronto, ON, Canada, ³Division of Diagnostic & Applied Medicine, Department of Laboratory Medicine & Pathology, Faculty of Medicine & Dentistry, University of Alberta, Edmonton, AB, Canada

LB-5118

High-throughput screening of a novel structure-activity library against *N. fowleri* in a newly developed cytopathogenicity assay

Emma V. Troth¹, Jopaul Mathew², Emilio F. Merino¹, Paul R. Carlier², Maria B. Cassera¹, Dennis E. Kyle¹
¹University of Georgia, Athens, GA, United States, ²Virginia Tech, Blacksburg, VA, United States

LB-5119

Validation of a Multiplex Real-time PCR Gastrointestinal Protozoa Panel

Michelle Zhao¹, Kimberly Marks-Beaubrun¹, Jason Kwan¹, Rachel Lau², Filip Ralevski², Amanda Wang², Ruben Cudiamat², Ellen Chen², Krista Orejana², Andrea K. Boggild¹

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Poster Session 58
Poster Session B
Late-Breakers in Basic Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

Bacteriology and Diarrhea	#LB-5134 through LB-5137
Cestodes	#LB-5138 through LB-5142
Helminths - Nematodes.....	#LB-5143 through LB-5148
Malaria	#LB-5149 through LB-5171
Protozoa	#LB-5172 through LB-5173
Trematodes	#LB-5174

LB-5134

Human vitreous humor as a source of extracellular matrix for a Mycobacterium tuberculosis infection in vitro granuloma model

Jeffrey M. Allison¹, Shubhang Bhalla¹, Joel Rodgers¹, Jose Barragan², Jorge Cervantes³
¹Paul L. Foster School of Medicine, El Paso, TX, TX, United States, ²Laboratory for Education in Molecular Medicine, Texas Tech University Health Sciences Center, El Paso, El Paso, TX, TX, United States, ³Paul L. Foster School of Medicine; Laboratory for Education in Molecular Medicine, Texas Tech University Health Sciences Center, El Paso, El Paso, TX, TX, United States

LB-5135

Antimicrobial resistance of Extended Spectrum Beta-Lactamases and Diarrhoeagenic E. coli isolated from diarrhoea patients attending health facilities in Accra, Ghana

Helena Dela¹, Beverly Egyir¹, Ayodele Majekodunmi², Eric Behene¹, Clara Yeboah¹, Dominic Ackah¹, Richard Nare Ngandolo Bongo³, Bassirou Bonfoh⁴, Jakob Zinsstag⁵, Bimi Langbong⁶, Kennedy Kwasi Addo¹
¹Noguchi Memorial Institute for Medical Research, Accra, Ghana, ²University of Ghana, Legon, Accra, Ghana, ³Institut de Recherche en Elevage pour le Développement (IRED), N'djamena, Chad, N'djamena, Chad, ⁴Centre Suisse de Recherches Scientifiques en Côte d'Ivoire (CSRS), Abidjan, Côte d'Ivoire, Côte d'Ivoire, ⁵Department of Epidemiology and Public Health (EPH), Swiss TPH, Basel, Switzerland, ⁶Department of Bacteriology, Noguchi Memorial Institute for Medical Research (NMIMR), University of Ghana, Legon, Accra, Ghana

LB-5136

Detection of antibodies against S. Typhi LPS & HlyE antigens in ileal perforation cases

Junaid Iqbal¹, Maria Fletcher¹, Mehreen Adnan¹, Sadaf Pervaiz¹, Denise Garrett², Jessica Seidman², Richelle Charles³, Farah Qamar¹
¹Aga Khan University, Karachi, Pakistan, ²Sabin Vaccine Institute, Washington, WA, United States, ³Harvard Medical School, Massachusetts, MA, United States

LB-5137

Community-based geographical distribution of Mycobacterium ulcerans VNTR-genotypes from the environment and humans in the Nyong valley, Cameroon.

Francis ZEUKENG¹, Jude Daiga Bigoga¹, Anthony Ablordey²
¹The Biotechnology Centre (BTC), University of Yaoundé I, Yaounde, Cameroon, ²Noguchi Memorial Institute for Medical Research, University of Ghana,, Legon, Accra, Ghana

LB-5138

Identification and functional characterization of the siRNA pathway in Taenia crassiceps.

Raul J. Bobes¹, Julio I. Guerrero-Hernandez¹, Justine Ortega-Mendez², Martin Garcia-Varela¹, **Alejandro Castellanos-Gonzalez**², Juan Pedro Laclette¹
¹Universidad Nacional Autonoma de Mexico, Mexico, City, Mexico, ²UTMB, Galveston, TX, United States

Poster Session B

Late-Breakers in Basic Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5139

Developed a stochastic simulation model to evaluate the annual cost of three classical swine fever and swine cysticercosis by Taenia solium control programs

Juan Calcina¹, Linda Gallegos¹, Rocio Rimac², Eloy Gonzales-Gustavson¹, Manolo Fernandez³, Eliana Icochea¹, **Luis A. Gomez-Puerta**¹, Armando E. Gonzales-Gustavson¹

¹Universidad Nacional Mayor de San Marcos, Lima, Peru, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Farmacologicos Veterinarios SAC (FARVET), Lima, Peru

LB-5140

Modeling and analysis of a stochastic simulation model to evaluate the costs of porcine cysticercosis control programs in Peru

Linda Gallegos¹, Juan Calcina¹, Rocio Rimac², Eloy Gonzales-Gustavson¹, Manolo Fernandez³, Eliana Icochea¹, **Luis A. Gomez-Puerta**¹, Armando E. Gonzalez¹

¹Universidad Nacional Mayor de San Marcos, Lima, Peru, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Farmacologicos Veterinarios SAC (FARVET), Lima, Peru

LB-5141

Salmonella Enteritidis and Newcastle disease virus as vaccine vectors against Taenia solium

Rocio Rimac¹, Steffi Roller², Ana Vargas-Calla², Eliana Icochea², Manolo Fernandez³, **Luis A. Gomez-Puerta**², Armando E. Gonzalez²

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Universidad Nacional Mayor de San Marcos, Lima, Peru, ³Farmacologicos Veterinarios SAC (FARVET), Lima, Peru

LB-5142

Neuronal damage in neurocysticercosis using rat NCC model

Edson Bernal-Teran¹, Dina Patilla¹, Dina Ramirez¹, Danitza Davila¹, Rogger P. Carmen-Orozco¹, Cesar M. Gavidia², Lizbeth Fustamante¹, Gino Castillo¹, Robert H. Gilman³, **Manuela R. Verastegui**¹, Cysticercosis Working group in Peru¹

¹Universidad Peruana Cayetano Heredia, Lima, Peru, ²Universidad Nacional Mayor de San Marcos,

Lima, Peru, ³Johns Hopkins University, Baltimore, MD, United States

LB-5143

The potential of NIR technique in the diagnosis of Trichuris muris infections

Silvia Ciocchetta¹, Paul R. Giacomini², Tharanga N. Kariyawasam³, Paul Visendi⁴, Floyd E. Dowell⁵, Ricardo S. Magalhães⁶, Maggy T. Sikulu-Lord³

¹School of Veterinary Science, Faculty of Science, The University of Queensland, Gatton, Australia, ²Australian Institute of Tropical Health & Medicine, Centre for Molecular Therapeutics, James Cook University, Cairns, Australia, ³School of Public Health, Faculty of Medicine, The University of Queensland, Brisbane, Australia, ⁴Centre for Agriculture and the Bioeconomy, Queensland University of Technology, Brisbane, Australia, ⁵USDA, Agricultural Research Service, Center for Grain and Animal Health Research, Manhattan, KS, United States, ⁶School of Veterinary Science, Faculty of Science, The University of Queensland, Gatton, Australia & Children's Health and Environment Program, UQ Children's Health Research Centre, The University of Queensland, South Brisbane, Australia

LB-5144

High-throughput screening of more than 15,000 known bioactives as anthelmintics

Mostafa A. Elfawal¹, Emily Goetz¹, You-Mie Kim¹, Sergey Savinov², Raffi Aroian¹

¹University of Massachusetts Medical School, Worcester, MA, United States, ²Tufts, Medford, MA, United States

LB-5145

Screening a Drug Scaffold Library for Potent and Broad Spectrum Anti Nematode Drugs

Emily Goetz, Mostafa Elfawal, You Mei Kim, Sergey Savinov, Raffi Aroian

UMass Medical School, Worcester, MA, United States

LB-5146

Exploring the role of IPSE, an abundant parasite egg-secreted protein, in the carcinogenesis related to infection with Schistosoma haematobium

Kenji Ishida, Michael Hsieh

Children's National Hospital, Washington, DC, United States

Poster Session B**Late-Breakers in Basic Sciences**

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5147**Genomes of the Wolbachia endosymbionts from the human filarial parasites Mansonella perstans and Mansonella ozzardi reveal multiple origins of nematode-Wolbachia symbiosis**

Amit Sinha¹, Zhiru Li¹, Catherine B. Poole¹, Laurence Ettwiller¹, Nathália F. Lima², Marcelo U. Ferreira², Fanny F. Fombad³, Samuel Wanji³, Clotilde K. Carlow¹
¹New England Biolabs, Ipswich, MA, United States, ²Department of Parasitology, Institute of Biomedical Sciences, University of São Paulo, São Paulo, Brazil, ³Department of Microbiology and Parasitology, University of Buea, Buea, Cameroon

LB-5148**Genome sequences of the human filarial parasites Mansonella perstans and Mansonella ozzardi**

Amit Sinha¹, Zhiru Li¹, Catherine B. Poole¹, Richard D. Morgan¹, Laurence Ettwiller¹, Nathália F. Lima², Marcelo U. Ferreira², Fanny F. Fombad³, Samuel Wanji³, Clotilde K. Carlow¹
¹New England Biolabs, Ipswich, MA, United States, ²Department of Parasitology, Institute of Biomedical Sciences, University of São Paulo, São Paulo, Brazil, ³Department of Microbiology and Parasitology, University of Buea, Buea, Cameroon

LB-5149**Efficacy and protection of a malaria Prime mRNA-Target vaccine against Plasmodium yoelli infection**

Zach MacMillen¹, Mint Laohajaratsang¹, Amit Khandhar², Jesse Erasmus², Sean Murphy³, Brandon Wilder⁴, James Davie¹, **Marion Avril**¹
¹MalarVx, Inc, Seattle, WA, United States, ²HDT Bio, Seattle, WA, United States, ³University of Washington, Seattle, WA, United States, ⁴Oregon Health Science University, Portland, OR, United States

LB-5150**Markers and mechanisms of immune-mediated clearance of red blood cells during post-artemisinin hemolysis in severe malaria**

Charlotte Chambrion¹, Emilie-Fleur Gautier², Oussama Mouri³, Eric Kendjo³, Aurélie Fricot-Monsinjon⁴, Mallorie Depond⁴, Lucia Angella⁴, Aida Taieb⁵, Nicolas Argy⁶, Sandrine Houze⁷, Jean-François

Timsit⁸, Stéphane Jauréguiberry⁹, Françoise Chartier Botterel¹⁰, Patrick Mayeux², Jean Yves Siriez¹¹, Sébastien Larréché¹², Marc Thellier³, Pierre Buffet¹, Papa Alioune Ndour¹

¹INSERM U1134 INTS. French National Reference Center for Malaria. Université de Paris, Labex GRex, Paris, France, ²Inserm U1016-CNRS UMR8104- Université de Paris, Institut Cochin, Labex GRex, Paris, France, ³AP-HP, Hôpital Pitié Salpêtrière, French National Reference Center for Malaria, Paris, France, ⁴INSERM U1134 INTS. French National Reference Center for Malaria. Labex GRex, Paris, France, ⁵AP-HP, Hôpital Pitié Salpêtrière. French National Reference Center for Malaria, Paris, France, ⁶Hôpital Xavier Bichat-Claude Bernard, French National Reference Center for Malaria, Paris, France, ⁷Hôpital Xavier Bichat-Claude Bernard, Centre National de Référence du Paludisme, Paris, France, ⁸Hôpital Xavier Bichat-Claude Bernard, Paris, France, ⁹Hôpital Bicêtre AP-HP, Paris, France, ¹⁰Hôpital Henri-Mondor AP-HP, Paris, France, ¹¹AP-HP, Hôpital Robert- Debré, Paris, France, ¹²Département de Biologie Médicale, Hôpital d'Instruction Des Armées Bégin, Paris, France

LB-5151**Approach to Implementing Monthly Health Facility Data Triangulation - An Experience Implementing a Pilot in Four Selected States**

Chinedu Chukwu¹, Tomisin Abimbola¹, Isaac Adejo¹, Melis Esi¹, Victoria Erinele¹, Mariah Boyd-Boffa², Thomas Hall³, Sonachi Ezeiru⁴, Frank Oronsaye⁴, Diwe Ekweremadu⁴, Perpetua Uhomoihi⁵, Nnenna Ogbulafor⁵, Bolakale Issa Kawu⁵, Chukwu Okoronkwo⁵, Kassim Talatu⁵

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LB-5152**Producing a Country Malaria Risk Profile to Better Inform Malaria Control Interventions in Liberia**

Eric Diboulo¹, D. Levi Hinnéh², Victor S. Koko², O. Joseph Alade², Julius Gilayeneh², Oliver Pratt², Luke L. Bawo³, Jessica Kafuko⁴, Agneta Mbithi¹, Brittany Schriver Iskarpatyoti⁵, Yazoumé Yé¹

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Poster Session B

Late-Breakers in Basic Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5153

Digitization of vector control campaigns: Experiences in strengthening data management for Indoor Residual Spraying and entomological surveillance reporting through DHIS2 in Zimbabwe

Busisani Dube¹, Wilson Chauke¹, Brighton Gambia², Ottias Tapfumane¹, Rangarai Sharara², Abaden Svisva², Joseph Zvoushoma², Ernest Moyo², Joseph Mberikunashe¹
¹National Malaria Control Program, Harare, Zimbabwe, ²Clinton Health Access Initiative, Boston, MA, United States

LB-5154

Genomic profiling of Plasmodium falciparum antimalarial drug resistance across Zambia

Abebe A. Fola¹, Ilinca I. Ciubotariu¹, Mulenga C. Mwenda², Jack Dorman¹, Brenda Mambwe², Conceptor Mulube², Moonga Halewa³, Douglas E. Norris⁴, William J. Moss⁵, Daniel J. Bridges², Giovanna Carpi¹
¹Purdue University, West Lafayette, IN, United States, ²PATH Malaria Control and Elimination Partnership in Africa (MACEPA), Lusaka, Zambia, ³National Malaria Elimination Centre, Zambia Ministry of Health, Chainama Hospital Grounds, Lusaka, Zambia, ⁴The Johns Hopkins Malaria Research Institute, W. Harry Feinstone Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁵Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

LB-5155

Inoculation with Plasmodium berghei hemozoin containing DNA cures P. berghei liver stage infection in BALB/c mice

Adriano Franco, David J. Sullivan
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

LB-5156

Improving Access and Use of Vector Control Commodities in Burkina Faso: Understanding the Role that the Private Sector Can Play in Helping Access Insecticide Treated Nets (ITNs) during Emergencies

Lydia Irambona¹, Joseph Lewinski², Désiré L. Dahourou¹, Christien Yameni³, Christiane Lengani Ouedraogo¹, Francine Kanzie-Epiboe¹, Alexis Tarnagada¹
¹Catholic Relief Services, Ouagadougou, Burkina Faso, ²Catholic Relief Services, Baltimore, MD, United States, ³Catholic Relief Services, Dakar, Senegal

LB-5157

A vaccine targeting a vulnerable epitope in malaria CSP confers sterilizing protection in mice

Lucie Jelinkova¹, Yewel Flores-Garcia², Sarah Shapiro², Nikolai Petrovsky³, Fidel Zavala², Bryce Chackerian¹
¹University of New Mexico School of Medicine, Albuquerque, NM, United States, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Vaxine Pty Ltd, Adelaide, Australia

LB-5158

SUPPLY CHAIN MANAGEMENT DURING THE COVID-19 PANDEMIC: A LESSON FROM THE MALARIA PRE-ELIMINATION DISTRICTS IN ZAMBIA

Paul Kasanda¹, Joseph Lungenda², Natasha Kowa-Mmatafwali¹, Noah Twanjipa Mtonga¹
¹GHSC-PSM, Lusaka, Zambia, ²Ministry of Health, Eastern Province, Lusaka, Zambia

LB-5159

Performance of a multi-species rapid diagnostic test for identifying asymptomatic malaria infection and detection of P. falciparum histidine-rich protein 2 and 3 gene deletions in northern Ethiopia, 2015

Colleen Leonard¹, Ashenafi Assefa², Jessica McCaffery¹, Mateusz Plucinski¹, Heven Sime², Hussein Mohammed², Amha Kebede³, Hiwot Solomon⁴, Mebrahtom Haile⁴, Matthew Murphy⁵, Jimmie Hwang⁵, Eric Rogier¹
¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²Ethiopian Public Health Institute, Addis Ababa, Ethiopia, ³African Society for Laboratory Medicine, Addis Ababa, Ethiopia, ⁴Ethiopian Federal Ministry of Health, Addis Ababa, Ethiopia, ⁵Centers for Disease Control and Prevention, U.S. President's Malaria Initiative, Atlanta, GA, United States

Poster Session B

Late-Breakers in Basic Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5160

Knowledge and practice about malaria and LLIN use among Arab, Dazagada and Fulani nomad groups in Chad

Azoukalne Moukenet¹, Sol Richarson², Kebfene Moudine³, Laoukolé Jean⁴, Ngarkodje Ngarasta⁵, Ibrahima SECK¹

¹University Cheikh Anta Diop, Dakar, Senegal, ²Malaria Consortium, London, United Kingdom, ³UNICEF, Moundou, Chad, ⁴National Malaria Control Program, NDjamena, Chad, ⁵University NDjamena, NDjamena, Chad

LB-5161

Comprehensive Social and Behaviour Change Communication Increases Insecticide-treated mosquito nets (ITNs) utilization in Mangochi, Dowa and Rumphi districts, Malawi

Prince Perfect Nkhata

World Vision Malawi, Lilongwe, Malawi

LB-5162

Malaria high-risk populations in Senegal: A mixed-methods study to inform targeted interventions

Henry Ntuku¹, Moustapha Cisse², Ndack Diop², Tidiane Thiam², Abiboulaye Sall², Aichatou Barry Diouf³, Mama Moussa Diaw³, Mamadou Diop³, Baba Camara³, Niene Seck³, Aliou Ndour³, Jennifer Smith⁴, Yakou Dieye², Caterina Guinovart², Adam Bennett⁵

¹PATH, Kinshasa, Democratic Republic of the Congo, ²PATH, Dakar, Senegal, ³Senegal National Malaria Control Program, Dakar, Senegal, ⁴Malaria Elimination Initiative, University of California San Francisco, San Francisco, CA, United States, ⁵PATH/Malaria Elimination Initiative, University of California San Francisco, Seattle, WA, United States

LB-5163

Piperaquine Resistance is Associated with Differential Peptidomic, Transcriptomic and Vacuolar Accumulation Profiles in Plasmodium falciparum

John Okombo¹, Sachel Mok¹, Tarrick Qahash², Laura Hagenah¹, Manuel Llinas², David Fidock¹

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LB-5164

Novel Mutations in selected G6PD alleles in Nigeria using the Multiplex Extension and Ligation-based Probe Amplification (MELPA) technique

Wellington A. Oyibo¹, Musa Babalola¹, Ngozi A. Imaga¹, Titilola A. Samuel¹, Zhi Zheng²

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LB-5165

Intermittent Preventive Treatment use, and factors associated with Sulfadoxine-Pyrimethamine use among pregnant women in Madagascar

Bakoly Nirina RAHAIVONDRAFAHITRA¹, Dr Vololoniala Aimée RAVAOARINOSY², Jacky RAHARINJATOVO¹, Dr Mickael RANDRIAMANJAKA¹, Mohamed Patrice Diallo¹, Dr Laurent KAPESA³, Solofo RAZAKAMIADANA³, Dr Jocelyn RAZAFINDRAKOTO³, Aarons Chea⁴

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LB-5166

Engaging the private for-profit sector in improving availability of injectable artesunate and injectable quinine to treat severe malaria

Ando RAMBELOSON¹, Robin Keeley², Bhavya Gwoda², Dr Celestin RAZAFINJATO³, Jacky RAHARINJATOVO⁴, Mohamed Patrice Diallo⁴, Aarons Chea⁵, Dr Laurent KAPESA⁶, Solofo RAZAKAMIADANA⁶, Dr Jocelyn RAZAFINDRAKOTO⁶

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Poster Session B

Late-Breakers in Basic Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5167

The evolutionary relationships of Histamine Releasing Factor (HRF) in Plasmodium and other Apicomplexan parasites

Angelica M. Rosado-Quinones¹, Steve E. Massey¹, Adelfa E. Serrano²

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LB-5168

Implementation community-based delivery of intermittent preventive treatment in pregnancy (IPTp) with sulfadoxine pyrimethamine in 2020 in the context of the COVID 19 pandemic in Senegal

DIAW F.B. S¹, **GAYE S.¹**, **BA A.M.¹**, **KALY S.N¹**, **FALL F.B¹**, **DIALLO I¹**, **NDIOP M¹**, **SENE D¹**.

¹ NATIONAL MALARIA CONTROL PROGRAM, MINISTRY OF HEALTH, SENEGAL

LB-5169

Stratification of Malaria Incidence in Papua New Guinea (2011-2019): Contribution Towards a Catchment-based Control Policy

Osama Seidahmed¹, Sharon Jamea², Serah Kurumop², Diana Timbi², Leo Makita³, William Pomat², Manuel Hetzel¹

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LB-5170

Investigation of antibody-mediated immune mechanisms in pregnancy-associated malaria

Madeleine C. Wiebe, Michael Hawkes, Sedami Gnidehou, Stephanie K. Yanow
University of Alberta, Edmonton, AB, Canada

LB-5171

Use of a mobile phone survey to estimate regional bed net access in Tanzania

Matt Worges¹, Hannah Koenker², Benjamin Kamala³, David Dadi³, Dana Loll⁴, Hannah Metcalfe⁵, Hunter Harig⁶, Alison Pack⁴, Frank Chacky⁷, Naomi Serbantez¹, Josh Yukich¹

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LB-5172

Effector function prior to establishment of the phagosomal pathogen niche is required for protective CD4⁺ T cell-mediated immunity against Leishmania

Leah S. Hohman, Matheus B. Carneiro, Rachel M. Kratofil, Nathan C. Peters
Snyder Institute for Chronic Diseases, Department of Immunology, University of Calgary, Calgary, AB, Canada

LB-5173

The Effect of Mucus-like Viscoelastic Stress on Giardia Growth

Shican Li¹, Joia Miller¹, Hannah Paynter¹, David Gagnon¹, Kelly Watanabe², Jeffery Urbach¹, Heidi Elmendorf¹

¹Georgetown University, Washington, DC, United States, ²Claremont McKenna College, Claremont, CA, United States

LB-5174

IPSE, a Schistosoma protein, Upregulates Transcription of Cyclin Genes in Urothelial Cells

Jonathan L. Smisson, Michael H. Hsieh, Kenji Ishida
Children's National Hospital, Washington, DC, United States

Poster Session 58
Poster Session B
Late-Breakers in Clinical and Applied Sciences
 Friday, November 19, 2021, Noon - 1:30 p.m.

Global Health.....	#LB-5175 through LB-5189
Helminths - Nematodes.....	#LB-5190 through LB-5194
HIV and Tropical Co-Infections.....	#LB-5195 through LB-5196
Malaria	#LB-5197 through LB-5212
Trematodes.....	#LB-5213 through LB-5218
Viruses (all other viruses)	#LB-5219 through LB-5229
Water, Sanitation, Hygiene and Environmental Health	#LB-5230 through LB-5241

LB-5175

Persistence of antibody responses to SARS-CoV-2 in COVID-19 patients: A Report up to 06 Months after Infection

Syed Abul Hassan Md Abdullah¹, Md. Golam Dostogir Harun², Nishat Jubaida³, Kazi Md. Saiful Islam⁴, Mohammad Murshed⁵, Ruksana Raihan⁶
¹South Asia Field Epidemiology & Technology Network (SAFETYNET), Bangladesh office, Dhaka, Bangladesh, ²Dept of Public Health, Daffodil International University, Dhaka, Dhaka, Bangladesh, ³Dept of Microbiology, Armed Forces Institute of Pathology (AFIP), Bangladesh, Dhaka, Bangladesh, ⁴Global Public Health Program, American Society for Microbiology (ASM), Dhaka, Bangladesh, ⁵Dept of Microbiology, Holy Family Red Crescent Medical College, Dhaka, Bangladesh, ⁶Dept of Microbiology, US Bangla Medical College, Dhaka, Bangladesh

LB-5176

Willingness to receive COVID-19 vaccines among an urban slum population in Brazil

Juan P. Aguilar Ticona¹, Nivison Nery Jr¹, Renato Victoriano², Mariam O. Fofana³, Guilherme S. Ribeiro², Emanuele Giorgi⁴, Mitermayer G. Reis², Albert I. Ko³, Federico Costa¹
¹Instituto de Saúde Coletiva, Universidade Federal da Bahia, Salvador, Brazil, ²Instituto Gonçalo Moniz, Fundação Oswaldo Cruz, Salvador, Brazil, ³Department of Epidemiology of Microbial Diseases, Yale School of Public Health, New Haven, CT, United States, ⁴School of Health and Medicine, Lancaster University, Lancaster, United Kingdom

LB-5177

Incentives used in Disease Elimination

Rafya Ahmed¹, Aissatou Diawara¹, Gretchen Newby², Roly Gosling³
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LB-5178

Comparative Assessment of Test Characteristics of Cervical Cancer Screening Methods for Implementation in Low-Resource Settings

Ramin Asgary¹, Elena Beideck², Rosanna Naderi³
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LB-5179

Frequent viral antigen testing as an epidemic control tool

Irene Bosch¹, Miguel Bosch², Elena Naumova³, Lee Gehrke¹
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Poster Session B

Late-Breakers in Clinical and Applied Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5180

Embracing the power of the global health research community: crowd-sourced peer review of health researchers' concept protocols.

Samuel Driver¹, Shan Gray¹, Welile Sikhondze², Nicole Feune De Colombi¹, Alexis Segrt¹, Johanna Roth³, Lara Pandya³, Oscar Taper⁴, Mathildah T. Chithila-Munthali⁵, Trudie Lang¹
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LB-5181

A Community of Practice for addressing global research inequity and evolving priorities during the COVID-19 Pandemic

Nicole Feune de Colombi¹, Bonny Baker¹, Ryan J. Walker¹, Davide Bilardi¹, Flávia Bueno², Luiza M. Lourenco³, Mathildah T. Chithila-Munthali⁴, Oscar Taper⁵, Trudie Lang¹
¹The Global Health Network, University of Oxford, Oxford, United Kingdom, ²Oswaldo Cruz Foundation - Fiocruz, Brazil, Brazil, ³University of Brasilia, Brasilia, Brazil, ⁴Agency for Scientific Research & Training (ASRT), Lilongwe, Malawi, ⁵SADTAP Health Research Institute, Harare, Zimbabwe

LB-5182

Arboviral disease outbreak prevention in the US-Affiliated Pacific Islands- The Pacific Island Vector Management Council

Limb K. Hapairai¹, Rosanna Y. Rabago²
¹Pacific Island Health Officers Association, Agana, Guam, ²Guam-Division of Environmental Health; Department of Public Health and Social Services, Agana, Guam

LB-5183

Infection prevention and control situation during COVID19 pandemic in selected tertiary care hospitals in Bangladesh: Results from WHO Infection Prevention and Control Assessment Framework

Md. Golam Dostogir Harun¹, Shariful Amin Sumon¹, Dr. Md. Zakiul Hassan¹, Syeda Mah-E-Muneer¹, Dr. Aninda Rahman², Syed Abul Hassan Md Abdullah³, Md Saiful Islam⁴, Ashley Rene Styczynski⁵
¹icddr,b, Dhaka, Bangladesh, ²Communicable Disease Control, Directorate General of Health Services, Bangladesh, Dhaka, Bangladesh, ³Safetynet, Bangladesh, Dhaka, Bangladesh, ⁴icddr,b, University of New South Wales, Australia, Dhaka, Bangladesh, ⁵Division of Infectious Diseases and Geographic Medicine, Stanford University, USA., Stanford, CA, United States

LB-5184

An assessment of the bed net retail market across six sites in Tanzania

Hannah Koenker¹, Deodatus Mwingizi², Emmanuel Obi³, Peter Gitanya⁴, Naomi Serbantez⁵, Dana Loll⁶, Benjamin Kamala²
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LB-5185

Compliance among patients/caregivers using first line antimalarials drug (Artesunate+Amodiaquine-ASAQ and Artemether + Lumefathrine-AL) in Liberia

Victor Senkolo Koko¹, Joseph O. Alade¹, Julius Gilayennah¹, Levi Hinneh¹, Tabadeh Collins-Kollah¹, Jamesetta Smith¹, Oliver Pratt¹, Eric Diboulo²
¹Ministry of Health, Monrovia, Liberia, ²U.S. President's Malaria Initiative Measure Malaria/ICF, Chapel Hill, NC, United States

Poster Session B

Late-Breakers in Clinical and Applied Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5186

Research response to the COVID-19 pandemic and food insecurity in northern, coastal Ecuador

Gwenyth O. Lee¹, William Cevallos², Jessica Uruchima¹, Paulina Andrade³, Manuel Pallares⁴, Amanda Van Engen¹, Gabriel Trueba⁵, Joseph N. Eisenberg¹, Josefina Coloma³
¹University of Michigan, Ann Arbor, MI, United States, ²Universidad Central del Ecuador, Quito, Ecuador, ³University of California, Berkeley, CA, United States, ⁴Fundacion Raiz, Tumbaco, Ecuador, ⁵Universidad San Francisco de Quito, Quito, Ecuador

LB-5187

Innovative use of geospatial data to assure high vector control coverage during the joint IRS and ITN campaigns in Nchelenge, Zambia, 2020-21

Christina M. Riley¹, Ernest Mulenga¹, Frazer Bwalya¹, Nduka Iwuchukwu², Brian Chirwa², Presley Musonda², Emmanuel Kooma³, Ketty Ndhlovu³, Peter Kalenga², Paul Psychas⁴, Jennifer Somtore⁵, Allison Belemvire⁶, Kelley Ambrose⁷, Patrick Mwansa²
¹Akros Inc, Lusaka, Zambia, ²US President's Malaria Initiative VectorLink Project, Abt Associates, Lusaka, Zambia, ³National Malaria Elimination Program, Lusaka, Zambia, ⁴US President's Malaria Initiative, US Centers for Disease Control and Prevention, Lusaka, Zambia, ⁵US President's Malaria Initiative, USAID, Lusaka, Zambia, ⁶US President's Malaria Initiative, USAID, Washington, DC, United States, ⁷US President's Malaria Initiative VectorLink Project, Abt Associates, Cambridge, MA, United States

LB-5188

Prior Vaccination with rVSV-ZEBOV Reduces Morbidity and Mortality in Patients with Ebola Virus Disease in the Democratic Republic of Congo, 2018-2020

Neil Rupani¹, Alexis S. Kearney², J Austin Lee², Monique Gainey³, Shiromi Perera⁴, Ruffin Mbusa Matafali⁵, Lina Kashibura Ntamwinja⁵, Fiston Nganga Makoyi⁵, Razia Laghari⁵, Mbong Eta Ngole⁵, Rigo Fraterne Muhayangabo⁵, Adam C. Levine²
¹Brown University, Providence, RI, United States, ²Department of Emergency Medicine, Warren Alpert Medical School, Brown University, Providence, RI, United States, ³Rhode Island Hospital, Providence, RI, United States, ⁴International Medical Corps, Washington, DC, United States, ⁵International Medical Corps, Goma, Democratic Republic of the Congo

LB-5189

Customer perceptions of food adulteration at markets in Dhaka, Bangladesh

Dalia Yeasmin¹, Musa Baker¹, Abu Hena Kamal², Md Saiful Islam³, Mahbubur Rahman¹, Peter John Winch⁴, Stephen P. Luby⁵, Jenna Forsyth⁵, Dr Leanne Unicomb¹
¹icddr, Dhaka, Bangladesh, ²icddr, b & University of Engineering and Technology, Dhaka, Bangladesh, ³icddr & University of New South Wales, Sydney, Australia, ⁴John Hopkins University, USA, MD, United States, ⁵Stanford University, USA, CA, United States

LB-5190

Strongyloidiasis Masquerading as Ulcerative Colitis

Shveta Bhasker, Hira Raheel, Swana Kopalakrishnan, Leila Makhani, Mathew Nicholas, Asfandyar Mufti, Andrea K. Boggild
Tropical Disease Unit, Toronto General Hospital and University of Toronto, Toronto, ON, Canada

LB-5191

Helminth seroprevalence among pregnant women and infants in Montserrado and Margibi Counties, Liberia

Dehkontee Dennis¹, **David M. Cook**², Kumblytee L. Johnson¹, Esther Akpa², Moses Badio¹, Nannie Kenyen¹, Dorothy Mangou¹, Louvina Sumbo¹, Julie Blie¹, John Fayiah³, Elvis Towalid³, Michael Chea³, George Smith³, Nuemeni Cope¹, John McCollough¹, Victor S. Koko⁴, Jillian Neal², Irfan Zaidi², Jennifer Kwan², Fatorma Bolay³, Mosoka Fallah¹, Patrick E. Duffy²
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LB-5192

Validation of a Multiplex Real-time PCR Gastrointestinal Helminth Panel

Jason Kwan¹, Kimberley Marks-Beaubrun¹, Rachel Lau², Filip Ralevski², Amanda Wang², Ruben Cudiamat², Ellen Chen², Krista Orejana², Andrea K. Boggild¹
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Poster Session B

Late-Breakers in Clinical and Applied Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5193

Anthelmintic prescriptions in the United States military: a retrospective analysis

Alyssa R. Lindrose¹, Jamie A. Fraser², Patrick W. Hickey¹, Edward Mitre¹
¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc., Bethesda, MD, United States

LB-5194

Whole proteome differential screening for the identification of novel schistosomiasis japonica vaccine candidates

Amanda E. Ruiz¹, Sunthorn Pond-Tor¹, Mario A. Jiz², Blanca Jarilla², Luz P. Acosta², Jennifer F. Friedman¹, Hai Wei Wu¹, Jonathan D. Kurtis¹
¹Brown University, Providence, RI, United States, ²Research Institute of Tropical Medicine, Manila, Philippines

LB-5195

HIV-Related Cryptococcal Meningitis at a District-Level Hospital in Botswana

Sally Madiba¹, Tomer Barak², Rebecca Zach³, Neo Tapela⁴, Shahin Lockman⁵, Ketenga Kalenga⁶, Dayana Palai⁶, John Chambo⁷, Mompoti Mmalane⁸, Joseph Makhema⁸, Roger Shapiro⁵, Sara S. Khilji⁹
¹University of Chicago Medical Center, Chicago, IL, United States, ²Beth Israel Deaconess Medical Center, Boston, MA, United States, ³Beth Israel Deaconess Medical Center, Boston, Boston, MA, United States, ⁴Nuffield Department of Population Health, University of Oxford, Oxford, United Kingdom, ⁵Harvard T.H. Chan School of Public Health, Boston, MA, United States, ⁶Botswana Ministry of Health & Wellness, Gaborone, Botswana, ⁷Scottish Livingstone Hospital, Molepolole, Botswana, ⁸Botswana Harvard AIDS Initiative Partnership, Gaborone, Botswana, ⁹Oregon Health & Science University, Portland, OR, United States

LB-5196

HIV Positivity in Rural Madagascar: Hints of a Smoldering Epidemic

Kyle E. Robinson, Eric P. Grewal, Mamantsara Fardine, Adriantiano M. Stephano
Mada Clinics, Maventibao, Madagascar

LB-5197

Dysregulation of cerebral tissue hemoglobin concentration in Malawian children with retinopathy-positive cerebral malaria

Rachel Smith¹, Amit Khandhadia¹, Allison Ikeda¹, Carol Rowley¹, Alexander Gorbach¹, Terrie Taylor², Karl Seydel², **Hans Ackerman**¹
¹National Institutes of Health, Rockville, MD, United States, ²Michigan State University, East Lansing, MI, United States

LB-5198

The role of community health workers in malaria control in in Cote d'Ivoire

Edouard C. Balogoun¹, Manasse N. Kassi¹, Philomène A. Beda¹, Serge B. Assi², Jacob Y. Agniman¹, Théodore D. Doudou³, Rodolphe H. Yao⁴, Adama Z. Ouattara⁵, Joel Koffi¹, Aristide E. Kouadio¹, Apollinaire N. Kouadio¹, Paul Bouey⁶, Sara Canavati⁶, Eric Swedberg⁶
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Poster Session B**Late-Breakers in Clinical and Applied Sciences**

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5199**Diagnostic tools as part of a package of interventions for improved management of febrile illnesses and targeted use of antibiotics in low-resource settings - learnings from a fever trial in 2020**

Sabine Dittrich¹, Juvenal Nkeramahame¹, Olawale Salami¹, Philip Horgan¹, Catrin E. Moore², Abhishek Giri³, Asadu Sserwanga⁴, Ashish Pathak⁵, Buddha Basnyat⁶, Francois Kiemde⁷, Gajanan Phutke⁸, Halidou Tinto⁷, Heidi Hopkins⁹, James Kapsi⁴, Neelam Taneja¹⁰, Rita Baiden¹¹, Shanta Dutta¹², Adelaide Compaore⁹, David Kaawa-Mafigiri¹³, Summita Udas Shaky⁶, Vida Kukula¹¹, Juni Joshi⁶, Anjana Tomar¹⁴, Sarabjit S. Chadha¹⁴, Kamini Walia¹⁵, Cassandra Kelly-Cirino¹, Piero Olliaro¹

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LB-5200**Efficacy of pyronaridine-artesunate against non-falciparum and mixed-species malaria: post-hoc analysis of the CANTAM (Central Africa Network on Tuberculosis, HIV/AIDS and Malaria) real-world Cohort Event Monitoring study**

Stephan Duparc¹, Mirjam Groger², Gaston Tona Lutete³, Ghyslain Mombo-Ngoma⁴, Serge-Brice Assi⁵, Jude D. Bigoga⁶, Felix Koukouikila-Koussounda⁷, Nsengi Y. Ntamabyaliro³, Francine Ntoumi⁷, Selidji T. Agnandji⁴, Jangsik Shin⁸, Isabelle Borghini-Fuhrer¹, Sarah Arbe-Barnes⁹, Adam Aspinall¹, Robert Miller⁹, Peter G. Kremsner¹⁰, Michael Ramharter¹¹

¹Medicines for Malaria Venture, Geneva, Switzerland, ²Department of Tropical Medicine Bernhard Nocht Institute for Tropical Medicine & I. Dep. of Medicine, University Medical Center Hamburg-Eppendorf, Hamburg, Germany, ³Unité de

Pharmacologie Clinique et Pharmacovigilance (UPC-PV), University of Kinshasa, Kinshasa, Democratic Republic of the Congo, ⁴Centre de Recherches Médicales de Lambaréné, Lambaréné, Gabon, ⁵Institut Pierre Richet/Institut National de Santé Publique (IPR/INSP), Bouaké, Côte D'Ivoire, ⁶The Biotechnology Center, University of Yaoundé I, Yaoundé, Cameroon, ⁷Fondation Congolaise pour la Recherche Médicale (FCRM), WHO-AFRO Campus Djoué, Brazzaville, Republic of the Congo, ⁸Shin-Poong Pharmaceutical Co. Ltd, Seoul, Republic of Korea, ⁹Artemida Pharma Limited, Stevenage, United Kingdom, ¹⁰Institut für Tropenmedizin, Reisemedizin und Humanparasitologie, University of Tübingen, Tübingen, Germany, ¹¹German Center for Infection Research (DZIF), partner site Hamburg-Lübeck-Borstel-Riems, Hamburg, Germany

LB-5201**Comparative Efficacy and Safety of Pyronaridine-artesunate versus Artemether-lumefantrine in the Treatment of Acute Uncomplicated Malaria Among Children in South-west Nigeria**

Catherine O. Falade¹, Obaro S. Michael¹, Fiyinfolu I. Olusola¹, Roland I. Funwei¹, Adebola E. Orimadegun¹, Oluwafunmibi E. Anjorin², Bose E. Orimadegun¹, Abiola L. Olusanya¹, Aduragbenro D. Adedapo¹
¹University of Ibadan, Ibadan, Nigeria, ²Babcock University, Inisan, Remo, Nigeria

LB-5202**Targeted Nanopore sequencing of P. falciparum histidine-rich protein 2 and 3 using Cas9-based capture and real-time adaptive sampling**

Chris M. Hennelly¹, Tara J. Skelly², Kara Moser¹, Corbin Jones³, Jonathan J. Juliano¹, Piotr Mieczkowski⁴, Jeremy Wang⁴, Jonathan B. Parr⁵
¹Institute for Global Health and Infectious Diseases, University of North Carolina, Chapel Hill, NC, United States, ²High Throughput Sequencing Facility, University of North Carolina, Chapel Hill, NC, United States, ³Department of Biology, University of North Carolina, Chapel Hill, NC, United States, ⁴Department of Genetics, University of North Carolina, Chapel Hill, NC, United States, ⁵Division of Infectious Diseases, Department of Medicine, University of North Carolina, Chapel Hill, NC, United States

Poster Session B**Late-Breakers in Clinical and Applied Sciences***Friday, November 19, 2021, Noon - 1:30 p.m.***LB-5203****Epidemiology of Glucose 6 Phosphate Dehydrogenase (G6PD) in Latin America and the Caribbean: A systematic review and meta-analysis to inform Plasmodium vivax radical cure**

Paulo Manrique¹, **Sonia Marcela Herrera**², Daniela Ramirez³, Daniel Pfeffer⁴, Benedikt Ley⁴, Rosalind E. Howes⁵, Leopoldo Villegas⁶, Alejandro Llanos-Cuentas⁷, Michelle S. Hsiang⁸

¹Department of Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Malaria Elimination Initiative, Institute for Global Health Sciences, University of California San Francisco (UCSF), San Francisco, CA, United States, ³Malaria Elimination Initiative, Institute for Global Health Sciences, University of California San Francisco (UCSF) of California San Francisco, San Francisco, CA, United States, ⁴Global and Tropical Health Division, Menzies School of Health Research, Charles Darwin University, Darwin, Northern Territory, Australia, ⁵Foundation for Innovative New Diagnostics FIND, Geneva, Switzerland, ⁶Population Services International, Washington DC, DC, United States, ⁷Instituto de Medicina Tropical Alexander von Humboldt, Universidad Peruana Cayetano Heredia, Lima, Peru, ⁸Malaria Elimination Initiative, Institute for Global Health Sciences, Department of Pediatrics, Department of Epidemiology and Biostatistics, University of California San Francisco (UCSF), Department of Pediatrics, University of Texas Southwestern, Dalla, San Francisco, CA, United States

LB-5204**Promoting early treatment for malaria in children: Behavioral determinants of prompt care-seeking for fever in Bo and Port Loko districts of Sierra Leone**

'**Kuor Kumoji**¹, Eric Filemyr¹, Wani Lahai², Shelby Cash³, David Schnabel⁴, Ramlat Jose⁵, Michael Bride¹, James Fofanah⁶

¹Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, ²National Malaria Control Program, Ministry of Health and Sanitation, Freetown, Sierra Leone, ³U.S. President's Malaria Initiative, US Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴U.S. President's Malaria Initiative, US Centers for Disease Control and Prevention, Freetown, Sierra Leone, ⁵U.S. President's Malaria Initiative, USAID, Freetown, Sierra Leone, ⁶Johns Hopkins Center for Communication Programs, Freetown, Sierra Leone

LB-5205**The FIND Innovation Platform: supporting the development of malaria diagnostic innovations to advance their use in malaria-endemic countries.**

Ewurama Dede Ampadu Owusu¹, Sabine Dittrich¹, Muzamil A. Mahdi², Jean-Pierre Musabyimana³, Rukhsana Ahmed⁴, Rintis Noviyanti⁴, Katherine Torres⁵, Dionicia Gamboa⁵, Xavier C. Ding¹, Seda Yerlikaya¹
¹FIND, Geneva, Switzerland, ²Dept. of Parasitology and Medical Entomology, Institute of Endemic Diseases, Medical Campus, University of Khartoum, Khartoum, Sudan, ³University of Gitwe, Gitwe, Rwanda, ⁴Eijkman Institute for Molecular Biology (EIMB), Jakarta, Indonesia, ⁵Universidad Peruana Cayetano Heredia, Lima, Peru

LB-5206**Heterogeneity in malaria transmission dynamics in Norte de Santander - Colombia**

Juan F. Sanchez¹, Berlin Londono-Renteria², Fredy Villena³, Jenny C. Cardenas⁴, Sandra Y. Giraldo-Parra⁴, Maria U. Gonzalez⁵, Lady Y. Gutierrez-Silva⁶, Lucy Jaimes-Villamizar⁷, Alba L. Roa-Parra⁸, Daisy J. Carvajal⁸, Claudia A. Parada⁹, Fabian Navarro¹⁰, Stephen Lizewski¹, Christie A. Joya¹, Hugo O. Valdivia¹
¹Department of Parasitology, U.S. Naval Medical Research Unit No.6 (NAMRU-6), Lima, Peru, ²Vector Biology Laboratory, Department of Entomology, Kansas State University, Manhattan, KS, United States, ³Vysnova, Lima, Peru, ⁴Hospital Local Los Patios, Los Patios - Norte de Santander, Colombia, ⁵Hospital Universitario Erasmo Meoz, Cucuta - Norte de Santander, Colombia, ⁶Hospital Emiro Quintero Cañizares, Ocaña - Norte de Santander, Colombia, ⁷Hospital Jorge Cristo Sahium, Villa del Rosario - Norte de Santander, Colombia, ⁸Department of Microbiology, Universidad de Pamplona, Pamplona, Colombia, ⁹Centro de Salud El Tarra, El Tarra - Norte de Santander, Colombia, ¹⁰Hospital Regional del Norte Tibu, Tibu - Norte de Santander, Colombia

LB-5207**Effect of COVID-19 adaptation on Sulphadoxine - Pyrimethamine + Amodiaquine (SPAQ) administration during Seasonal Malaria Chemoprevention (SMC) in Nigeria**

Akinola Shonde¹, Ghislain Nana², Diwe Ekweremadu¹, Temitope Ipinmoye¹, Frank Oronsaye¹, Olajumoke Olateju¹, Yakubu Cherima³, Jane Onyilo³, Emmanuel Shekarau⁴, Nnenna Ogbulafor⁴, Perpetua Uhomobhi⁴, Sonachi Ezeiru¹, Olugbenga Mokuolu⁴
¹Catholic Relief Services, Nigeria, Abuja, Nigeria, ²Catholic Relief Services, Baltimore USA, Baltimore, MD, United States, ³Malaria Consortium, Abuja, Nigeria, ⁴National Malaria Elimination Program, Abuja, Nigeria

Poster Session B

Late-Breakers in Clinical and Applied Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5208

Serological profiles associated with the degree of protection from symptomatic malaria in seven villages in The Gambia

Gillian Stresman¹, Julia Mwesigwa², Drammeh Abdoulie³, Mamadou Ousmane Ndaith³, Kevin Tetteh¹, Chris Drakeley¹, Annette Erhart³, Umberto D'Alessandro³

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Path, Kampala, Uganda, ³MRC Unit at LSHTM, Fajara, Gambia

LB-5209

Urban malaria: a new threat in the Horn of Africa following the expansion of *Anopheles stephensi*

Hiwot Teka¹, Saron Fikadu¹, Melat Kelem¹, Endasaw Esayas¹, Migbaru Keffale¹, Temesgen Ashine¹, Hasan Mamo², Chris Drakeley³, Lemu Golassa², Endalamaw Gadisa¹, Teun Bousema⁴, **Fitsum G. Tadesse**¹
¹Armauer Hansen Research Institute, Addis Ababa, Ethiopia, ²Addis Ababa University, Addis Ababa, Ethiopia, ³London School of Hygiene and Tropical Institute, London, United Kingdom, ⁴Radboud University Medical Center, Nijmegen, Netherlands

LB-5210

Characterization of host and parasite transcriptional profiles associated with the acquisition of immunity against *Plasmodium falciparum* malaria in Malian Children

Kieran Tebben¹, Salif Yirampo², Drissa Coulibaly², Abdoulaye K. Koné², Matthew B. Laurens³, Emily M. Stucke³, Ahmadou Dembélé⁴, Youssouf Tolo², Karim Traoré², Amadou Niangaly², Andrea A. Berry³, Bourema Kouriba², Christopher V. Plowe³, Ogobara K. Doumbo², Kirsten E. Lyke³, Shannon Takala Harrison³, Mahamadou A. Thera², Mark A. Travassos³, David Serre¹

¹Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, ²Malaria Research and Training Center, University of Sciences, Techniques and Technologies, Bamako, Mali, ³Malaria Research Program, Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, ⁴Malaria Research and Training Center, University of Sciences, Techniques and Technologies, Bamako, Mali, Bamako, Mali

LB-5211

Improving the quality of malaria services in Zanzibar: Lessons learned from a baseline assessment

Goodluck Tesha¹, Stella Makwaruzi¹, Shija J. Shija², Safia Mohamed², Kanuth Dimoso³, Tabitha Kibuka⁴, Saidi Mgata³, Rodgers D. Mwinga⁵, Sigsibert Mkude³, Chonge Kitojo⁶, Naomi Serbantez⁶, Katherine Wolf⁷, Charlotte Eddis⁴, Joseph Mugasa³

¹PMI Impact Malaria, Jhpiego, Dar es salaam, United Republic of Tanzania, ²Zanzibar Malaria Elimination Program, Zanzibar City, United Republic of Tanzania, ³PMI Impact Malaria, Population Services International (PSI), Dar es salaam, United Republic of Tanzania, ⁴PMI Impact Malaria, Population Services International (PSI), Washington, DC, United States, ⁵PMI Impact Malaria, MCDI, Kisumu, Kenya, ⁶U.S. President's Malaria Initiative, USAID, Dar es salaam, United Republic of Tanzania, ⁷PMI Impact Malaria, Jhpiego, Baltimore, MD, United States

LB-5212

Comparative Effectiveness Analysis and Field Validation of Ultrasensitive RDT in Diverse Malaria Transmission Settings

Xiaoming Wang¹, Daibin Zhong¹, Harrysone Atieli², John Githure², Guiyun Yan¹

¹University of California, Irvine, IRVINE, CA, United States, ²TOM MBOYA UNIVERSITY COLLEGE, Homa Bay, Kenya

LB-5213

In silico screening of schistosome membrane proteins as candidate diagnostic antigens for Asian schistosomiasis

Patricia A. Pineda, Regeena Janine S. Lim, Pocholo Miguel V. Ilaos, **Jose Ma. M. Angeles**
Department of Parasitology, College of Public Health, University of the Philippines Manila, Manila, Philippines

LB-5214

Treatment of Schistosomiasis in Pregnancy: A Systematic Review of Fetal and Infant Outcomes

Sonia Igboanugo¹, Alexandra Atayde¹, Hira Raheel¹, Rachel Lau¹, Shveta Bhasker¹, Chelsia Watson¹, Vivian Chen¹, Robert B. Chris¹, Swana Kopalakrishnan¹, Leila Makhani¹, Sharmistha Mishra², Andrea K. Boggild¹

¹Tropical Disease Unit, Toronto General Hospital and University of Toronto, Toronto, ON, Canada, ²St. Michael's Hospital and University of Toronto, Toronto, ON, Canada

Poster Session B

Late-Breakers in Clinical and Applied Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5215

Treatment of Schistosomiasis in Pregnancy: A Systematic Review of Maternal Outcomes

Sonia Igboanugo¹, Rachel Lau², Chelsia Watson¹, Alexandra Atayde¹, Melissa Phuong¹, Yashvi Bharwada¹, Robert B. Chris¹, Swana Kopalakrishnan¹, Leila Makhani¹, Sharmistha Mishra³, Andrea K. Boggild¹
¹Tropical Disease Unit, Toronto General Hospital and University of Toronto, Toronto, ON, Canada, ²Public Health Ontario Laboratory, Toronto, ON, Canada, ³St. Michael's Hospital and University of Toronto, Toronto, ON, Canada

LB-5216

Establishing a Female-only Controlled Human Schistosoma mansoni Infection Model: a safety and dose finding study

Jan Pieter R. Koopman, Jacqueline J. Janse, M. Casacuberta-Partal, Jeroen C. Sijtma, Claudia J. de Dood, Olivia A. Lamers, Angela van Diepen, Arifa Ozir-Fazalalikhani, Vincent P. Kuiper, Geert V. Roozen, Pauline Meij, Linda J. Wammes, Hermelijn H. Smits, Lisette van Lieshout, Govert J. van Dam, Paul L. Corstjens, Maria Yazdanbakhsh, Cornelis H. Hokke, Meta Roestenberg
Leiden University Medical Center, Leiden, Netherlands

LB-5217

An Update on the Role of Imaging in the Care of Patients with Genitourinary Schistosomiasis

Candice Madakadze¹, Rachel Lau², Michael Klowak³, Celine Lecce¹, Shveta Bhasker¹, Isabel Ng¹, Sabrina Yeung¹, Chelsia Watson¹, Jason Kwan¹, Melissa Phuong¹, Leila Makhani¹, Andrea K. Boggild¹
¹Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ²Public Health Ontario Laboratories, Toronto, ON, Canada, ³Institute of Medical Science, University of Toronto, Toronto, ON, Canada

LB-5218

An Update on the Role of Imaging in the Care of Patients with Intestinal Schistosomiasis

Sabrina Yeung¹, Rachel Lau², Michael Klowak³, Celine Lecce¹, Shveta Bhasker¹, Isabel Ng¹, Candice Madakadze¹, Chelsia Watson¹, Jason Kwan¹, Melissa Phuong¹, Leila Makhani¹, Andrea K. Boggild¹
¹Tropical Disease Unit, Toronto General Hospital,

Toronto, ON, Canada, ²Public Health Ontario Laboratories, Toronto, ON, Canada, ³Institute of Medical Science, University of Toronto, Toronto, ON, Canada

LB-5219

Attitudes toward Vaccination and Predictors of Ebola Vaccine Acceptance among High-Risk Community Members in North Kivu, Democratic Republic of the Congo

Elizabeth Song¹, Shiromi Perera², Jasmine Powell¹, **Stephanie Garbern**¹, Bailey Glenn³, Mbong Eta Ngole⁴, Arsene B. Ombeni⁵, Rigobert F. Muhayangabo⁴, Ruffin M. Mutumwa⁴, Stephane H. Mustafa⁶, Shibani Kulkarni³, Monica Fleming³, Mohamed F. Jalloh⁷, Neetu Abad³, Dieula D. Tchoualeu³, Anna Chard⁸, David Fitter³, Dimitri Prybylski³, Terri Hyde³, Reena Doshi³, Adam C. Levine¹
¹Brown University, Providence, RI, United States, ²International Medical Corps, Washington, DC, United States, ³Global Immunization Division, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴International Medical Corps, Goma, Democratic Republic of the Congo, ⁵Influenza Division, Centers for Disease Control and Prevention, Goma, Democratic Republic of the Congo, ⁶Expanded Programme on Immunization, Goma, Democratic Republic of the Congo, ⁷Division of Global HIV and TB, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁸Influenza Division, Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5220

Target-based virtual screening of compound libraries against multiple targets of SARS-CoV-2 and rational improvement: pitfalls and successes

Yash Gupta¹, Brijesh Rathi², Daniel P. Becker³, Ravi Durvasula¹, **Prakasha Kempaiah**¹
¹Mayo Clinic, Jacksonville, FL, United States, ²Delhi University, New Delhi, India, ³Loyola University Chicago, Chicago, IL, United States

Poster Session B**Late-Breakers in Clinical and Applied Sciences**

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5221**Liver Transplant in Acute Tropical Infectious Diseases: A Systematic Review of Indications and Outcomes**

Winnifred Kumi¹, Shveta Bhasker¹, Emma Hagopian¹, Celine Lecce¹, Michael Klowak², Tahyreem Shahid¹, Adhiyat Najam¹, Eric Shao¹, Ranie Ahmed¹, Raesham Mahmood², Anacaona Hernandez¹, Arghavan Omid¹, Mariyam Mohammed¹, Aquilla Reid¹, Yashvi Bharwada¹, Sonia Igboanugo¹, Chelsia Watson¹, Jahmar Hewitt¹, Omer Jamal¹, Shareese Clarke¹, Priyanka Challa¹, Kimberely Marks-Beaubrun¹, Katherine Tan¹, Mofe Adeosun¹, Osaru Omoruna¹, Christian Lecce¹, Avinash Mukkala², Rachel Lau³, Andrea K. Boggild¹

¹Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ²Institute of Medical Science, University of Toronto, Toronto, ON, Canada, ³Public Health Ontario Laboratories, Toronto, ON, Canada

LB-5222**Measles and EBV: A Tale of Two Viruses from an Infant Cohort Study in Western Kenya**

Derek S. Mason¹, Siobhan Flaherty¹, Conner Jackson¹, Emmily Koech², Gabriela Samayoa Reyes¹, Mahdi Maktabi¹, Arlene Dent³, Sidney Ogolla², Rosemary Rochford¹

¹University of Colorado School of Medicine, Aurora, CO, United States, ²Kenya Medical Research Institute, Kisumu, Kenya, ³Case Western Reserve University, Cleveland, OH, United States

LB-5223**Assessing arboviral circulation in Aedes mosquito vectors in Posadas Argentina**

Jessica V. Fay¹, Victoria Boaglio¹, Josefina Vicente¹, Sergio Litwiñiuk¹, Neris Gauto², Claudio Carissimo³, Karen Lopez⁴, Fabian Zelaya⁵, Benoit Talbot⁶, Camila Gonzalez⁷, Varsovia Ceballos⁸, Manisha Kulkarni⁶, Beate Sander⁹, Julian Ferreras¹, **Marcos Miretti**¹

¹Universidad Nacional de Misiones - CONICET, Posadas, Argentina, ²Instituto de Vectores, Municipalidad de Posadas, Misiones., Posadas, Argentina, ³Instituto de Vectores, Municipalidad de Posadas, Misiones, Posadas, Argentina, ⁴Secretaría de APS, Ministerio de Salud de Misiones., Posadas, Argentina, ⁵Secretaría de APS, Ministerio de Salud de Misiones, Posadas, Argentina, ⁶School of Epidemiology and Public Health, University of Ottawa, Ottawa, ON, Canada, ⁷CIMPAT - Departamento de Ciencias Biológicas, Universidad de los Andes, Bogota, Colombia, ⁸CIREV, Instituto Nacional de Investigación

en Salud Pública INSPI-LIP, Quito, Ecuador, ⁹Public Health Ontario, Toronto, ON, Canada

LB-5224**Vaccination uptake, concerns, and preferred communication methods regarding Ebola vaccination among health care workers in North Kivu Province, the Democratic Republic of the Congo 2020**

Mbong Eta Ngole¹, Arsene B. Ombeni¹, Rigobert F. Muhayangabo¹, Ruffin Mutumwa¹, Monica Fleming², Stephanie Garbern³, Stephane Mustafa⁴, Shiromi Perera⁵, Shibani Kulkarni², Elizabeth Song³, Jasmine Powell³, Bailey Glenn², Mohamed Jalloh⁶, Neetu Abad², Dieula D. Tchoualeu², Anna Chard⁷, David Fitter², Dimitri Prybylski², Terri Hyde², Adam C. Levine³, Reena Doshi²

¹International Medical Corps, Goma, Democratic Republic of the Congo, ²Global Immunization Division, Centers for Disease Control and Prevention, Atlanta, GA, United States, ³Brown University, Providence, RI, United States, ⁴Expanded Programme on Immunization, Goma, Democratic Republic of the Congo, ⁵International Medical Corps, Washington, DC, United States, ⁶Division of Global HIV and TB, Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁷Influenza Division, Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5225**Saliva for monitoring Cytomegalovirus reactivation in hematopoietic stem cell transplanted children**

Alejandra Pando¹, Alejandra Ingunza², Pauline Mamani², Xiomara Caffo¹, Sergio Murillo¹, Gerardo Sanchez², Holger Mayta²

¹National Institute of Child Health, Lima, Peru, ²Universidad Peruana Cayetano Heredia, Lima, Peru

LB-5226**Changes in dengue vaccine intention over a 2-year period among a community-based cohort in Ponce, Puerto Rico**

Dania M. Rodriguez¹, Chelsea G. Major¹, Claudia Alonso², Liliana Sánchez-González¹, Kyle R. Ryff¹, Olga D. Lorenzi¹, Vanesa Rivera-Amill³, Gabriela Paz-Bailey¹, Laura E. Adams¹

¹Division of Vector Borne Diseases, Centers for Disease Control and Prevention, San Juan, PR, United States, ²Columbia University Mailman School of Public Health, New York, NY, United States, ³Ponce Health Sciences University and Saint Luke's Episcopal Hospital Consortium, Ponce, PR, United States

Poster Session B

Late-Breakers in Clinical and Applied Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5227

Next generation live-attenuated vero yellow fever (vYF) vaccine candidate: first safety and immunogenicity results of a phase 1 dose-ranging study

Paul T. Scott¹, Melanie McCauley², Brittany Ober-Shepherd², Erica Sondergaard², Ajay P. Parikh², Ada Marie Minutello³, Haritha Adhikarla⁴, Yukun Wu⁴, Andrey P. Rojas⁵, Valentine Delore³, Meshell N. Morrison⁶, Kamila S. Kourbanova⁶, Melissa E. Martinez⁶, Ivelese Guzman⁶, Melissa E. Greenleaf⁶, Mihret Amare², Badryah Omar², Janice Darden⁷, Christine E. Lee⁶, Jack N. Hutter⁶, Michael A. Koren⁶, Melinda J. Hamer⁶, Jason A. Regules⁶, Jason W. Bennett⁶, Sheila A. Peel⁸, Manuel Vangelisti³, Merlin L. Robb², Kayvon Modjarrad¹, Emmanuel Feroldi³
¹Emerging Infectious Diseases Branch, Walter Reed Army Institute of Research, Bethesda, MD, United States, ²Henry M. Jackson Foundation; Emerging Infectious Diseases Branch, Walter Reed Army Institute of Research, Bethesda, MD, United States, Bethesda, MD, United States, ³Sanofi Pasteur, Marcy L'Etoile, France, ⁴Sanofi Pasteur, Swiftwater, PA, United States, ⁵Sanofi Pasteur, Bogotá, Colombia, ⁶Clinical Trials Center, Walter Reed Army Institute of Research, Bethesda, MD, United States, ⁷Henry M. Jackson Foundation; Diagnostics and Countermeasures Branch, Walter Reed Army Institute of Research, Bethesda, MD, United States, ⁸Diagnostics and Countermeasures Branch, Walter Reed Army Institute of Research, Bethesda, MD, United States

LB-5228

Kidney Transplant in Acute Tropical Infectious Diseases: A Systematic Review of Indications and Outcomes

Tahyreem Shahid¹, Shveta Bhasker¹, Emma Hagopian¹, Celine Lecce¹, Michael Klowak², Adhiyat Najam¹, Eric Shao¹, Ranie Ahmed¹, Raesham Mahmood², Anacaona Hernandez¹, Arghavan Omid¹, Mariyam Mohammed¹, Aquilla Reid¹, Yashvi Bharwada¹, Sonia Igboanugo¹, Chelsia Watson¹, Jahmar Hewitt¹, Omer Jamal¹, Shareese Clarke¹, Priyanka Challa¹, Kimberely Marks-Beaubrun¹, Katherine Tan¹, Mofe Adeosun¹, Osaru Omoruna¹, Christian Lecce¹, Avinash Mukkala², Rachel Lau³, Andrea K. Boggild¹
¹Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ²Institute of Medical Science, University of Toronto, Toronto, ON, Canada, ³Public Health Ontario Laboratories, Toronto, ON, Canada

LB-5229

Persistence and control of Rift Valley fever virus in a spatially heterogeneous environment: a case study of the Comoros archipelago, 2004-2015

Warren S. Tennant¹, Eric Cardinale², Catherine Cêtre-Sossah², Youssouf Moutroifi³, Gilles Le Godais⁴, Davide Colombi⁵, Matt J. Keeling¹, Simon E. Spencer¹, Mike J. Tildesley¹, Onzade Charafouddine³, Vittoria Colizza⁶, W. John Edmunds⁷, Raphaëlle Métras⁶
¹University of Warwick, Coventry, United Kingdom, ²Centre de Coopération Internationale en Recherche Agronomique pour le Développement, UMR Animal, Santé, Territoires, Risques, et Écosystèmes, Sainte Clotilde, Réunion, ³Vice-Présidence en charge de l'Agriculture, l'Élevage, la Pêche, l'Industrie, l'Énergie et l'Artisanat, Moroni, Comoros, ⁴Direction de l'Alimentation, de l'Agriculture et de la Forêt de Mayotte, Service de l'Alimentation, Mamoudzou, France, ⁵Aizoon Technology Consulting, Torino, Italy, ⁶Institut National de la Santé et de la Recherche Médicale, Paris, France, ⁷London School of Hygiene and Tropical Medicine, London, United Kingdom

LB-5230

Predominance of spa type t688 among methicillin-resistant Staphylococcus aureus (MRSA) isolated from healthcare workers' attire in a university teaching hospital

Qutaiba Ababneh, Malak Khanfar, Ziad Jaradat, Mohammad Al-Boom, Audai Hayajneh
Jordan University of Science & Technology, Irbid, Jordan

LB-5231

A Systematic Review of Treatment Strategies for Ingested Marine Toxins

Shaleesa Clarke, Omer Jamal, Aisha Khatib, Mariyam Mohammed, Celine Lecce, Ranie Ahmed, Aisha Ibrahim, Shveta Bhasker, Eric Shao, Andrea K. Boggild
Tropical Disease Unit, Toronto General Hospital and University of Toronto, Toronto, ON, Canada

LB-5232

Detection of intestinal parasites in soil samples from the outdoor built-environment in a rural community from Yucatán, México

Angela Cruz-Coral¹, Christian Teh-Poot¹, Vladimir Cruz-Chan¹, Liliana Villanueva-Lizama¹, Rojelio Mejia²
¹Autonomous University of Yucatán, Yucatan, Mexico, ²Baylor College of Medicine, Houston, TX, United States

Poster Session B

Late-Breakers in Clinical and Applied Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5233

WASH-NTD Integrated Programme in the provinces of Huambo, Uige and Zaire, Angola - 2017-2021

Pablo Eulogio¹, Venceslau Cussina², Mary Chimbili¹, Gilberto Jalomba¹, Matiaco Miguel¹, João Tekadiomona¹, Ana Direito³, Sergio Lopes³

¹The MENTOR Initiative, Luanda, Angola, ²Huambo Provincial Office for Education, Huambo, Angola, ³The MENTOR Initiative, Haywards Heath, United Kingdom

LB-5234

A Systematic Review of Treatment Strategies for Percutaneously Introduced Marine Toxins and Venom

Omer Jamal, Shaleesa Clarke, Swana Kopalakrishnan, Mofe Adeosun, Shareese Clarke, Andrea K. Boggild

Tropical Disease Unit, Toronto General Hospital and University of Toronto, Toronto, ON, Canada

LB-5235

Characterization of *Acinetobacter baumannii* isolated from medical personnel lab coats and scrubs

Ziad W. Jaradat, Qutaiba O. Ababneh, Uday Hayagneh
Jordan University of Science and Technology, Irbid, Jordan

LB-5236

What's New in Environmental Illnesses of Travel: Updated Guidelines from the Wilderness Medical Society

Arghavan Omid, Dylan Kain, Farah Jazuli, Milca Meconnen, Andrea K. Boggild
Tropical Disease Unit, Toronto General Hospital and University of Toronto, Toronto, ON, Canada

LB-5237

Development and evaluation of multiplex digital PCR for SAR-CoV-2 detection in sewage samples

Suporn Pholwat¹, Md Ohedul Islam², Tania Ferdousi², Md Hamim Bhuiyan², Tonima Rahman², Tuhinur Arju², Md Abdul Kader², Sabrina Karim Resha², Syed

Shahnewaj Siraj Sony², Rashidul Haque², Mami Taniuchi¹

¹University of Virginia, Charlottesville, VA, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh (icddr,b), Dhaka, Bangladesh

LB-5238

Formative research on preferred menstrual hygiene management (MHM) products for schoolgirls in urban and rural Bangladesh

Farhana Sultana¹, Mohammad Nuruzzaman¹, Farhana Akand¹, Shifat Khan¹, Sarah Sharmin¹, Sarah Sharmin¹, Supta Sarker¹, Rezwana Hossain¹, Mahbubur Rahman¹, Peter J. Winch², Stephen P. Luby³, Leanne Unicomb¹

¹icddr,b, Dhaka, Bangladesh, ²Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ³Stanford University, Stanford, CA, United States

LB-5239

Interactive COVID-19 dashboard: real-time simultaneous visualization of environmental sewage surveillance and case data in Dhaka, Bangladesh

Erin G. Wettstone¹, Lauren Hughlett¹, Claire Reagan¹, Md. Ohedul Islam², Tania Ferdousi², Md Hamim Bhuiyan², Tonima Rahman², Tuhinur Arju², Md. Abdul Kader², Syed Shahnewaj Siraj Sony², Sabrina Karim Resha², Mohammad Raihanul Hoque³, Kaiser Sojib⁴, Stephanie Brennhofe⁵, Elizabeth T. Rogawski McQuade⁶, Meerjady Sabrina Flora⁷, Tahmina Shirin⁸, Mahbubur Rahman⁸, Shams El Arifeen⁹, Ayesha S. Mahmud¹⁰, Rashidul Haque², Isobel M. Blake¹¹, Mami Taniuchi¹²

¹University of Virginia, Charlottesville, VA, United States, ²Infectious Disease Division, icddr,b, Dhaka, Bangladesh, ³Project Implementation and Monitoring, a2i, Dhaka, Bangladesh, ⁴Data Innovation Cluster, a2i, Dhaka, Bangladesh, ⁵Division of Infectious Diseases and International Health, University of Virginia, Charlottesville, VA, United States, ⁶Department of Epidemiology, Rollins School of Public Health, Emory University, Atlanta, GA, United States, ⁷Directorate General of Health Services, Bangladesh, Dhaka, Bangladesh, ⁸Institute of Epidemiology, Disease Control and Research (IEDCR), Dhaka, Bangladesh, ⁹Maternal and Child Health Division, icddr,b, Dhaka, Bangladesh, ¹⁰Dept. of Demography, UC Berkeley, Berkeley, CA, United States, ¹¹Dept of Infectious Disease Epidemiology, School of Public Health, Imperial College London, London, United Kingdom, ¹²Dept of Medicine, Division of Infectious Diseases and International Health, Dept of Biomedical Engineering, Dept of Engineering Systems and Environment; University of Virginia, Charlottesville, VA, United States

Poster Session B

Late-Breakers in Clinical and Applied Sciences

Friday, November 19, 2021, Noon - 1:30 p.m.

LB-5240

Formative Research for the Development of Evidence-Based Targeted WASH Interventions to Reduce Cholera in Hotspots in the Democratic Republic of the Congo: PICHA7 Program

Camille Williams¹, Lucien Bisimwa², Alain Mwishingo², Jean-Claude Bisimwa², Presence Sanvura¹, Jamie Perin¹, Justin Cikomola², Ghislain Maheshe³, Christine Marie George¹

¹*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*, ²*Catholic University of Bukavu, Bukavu, Democratic Republic of the Congo*, ³*General Provincial Reference Hospital of Bukavu, Bukavu, Democratic Republic of the Congo*

LB-5241

Wastewater surveillance for SARS-CoV-2 in the Greater Accra Region of Ghana

Habib Yakubu¹, Liu Pengbo¹, Wang Yuke¹, Sarah Durry¹, Suraja Raj¹, Mike Osei-Atweneboana², Samuel Armoo², Lady Adomako², Nana Aso Amonoo², Regina Banu², Mark Akrong², Benedict Tuffuor³, Ato Senayah³, Ransford Mensah³, Mary Ashinyo⁴, Dennis Laryea⁴, Samuel Akoriyea⁴, Patrick Aboagye⁴, Christine Moe¹
¹*Emory University, Atlanta, GA, United States*, ²*Council for Scientific and Industrial Research, Water Research Institute, Accra, Ghana*, ³*Training Research and Networking for Development, Accra, Ghana*, ⁴*Ghana Health Service, Accra, Ghana*

Poster Session 95
Poster Session C
Late-Breakers in Basic Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

Kinetoplastida.....#LB-5249 through LB-5256
Malaria#LB-5257 through LB-5278
One Health: Interface of Human Health/Animal Diseases#LB-5279 through LB-5283
Viruses (all other viruses)#LB-5284 through LB-5300
Water, Sanitation, Hygiene and Environmental Health#LB-5301 through LB-5302

LB-5249

Insights into the mode of trypanocidal action of two selected compounds from Medicine for Malaria Venture's Pathogen Box

Pearl Ihuoma Akazue¹, Neils Ben Quashie¹, Sue Vaughan², Harry P. De Koning³, Theresa Manful Gwira¹
¹University of Ghana, Accra, Ghana, ²Oxford Brookes University, Oxford, United Kingdom, ³University of Glasgow, Glasgow, United Kingdom

LB-5250

A Systematic Review of Virulence Factors in New World Leishmania species

Olamide Egbewumi¹, Avinash N. Mukkala¹, Ruwandi Kariyawasam², Eric Shao¹, Osaru Omoruna¹, Priyanka Challa¹, Michael Klowak¹, Shareese Clarke¹, Jamie Sookhoo¹, Dylan Kain¹, Tianna Chong-Kit¹, Andrea K. Boggild¹
¹Tropical Disease Unit, Toronto General Hospital and University of Toronto, Toronto, ON, Canada, ²University of Alberta, Edmonton, AB, Canada

LB-5251

Mediation of the host response on the survival and susceptibility of L. (V.) panamensis to antileishmanial drugs

Olga Lucia Fernandez, Ginnet Paola Gómez, Mariana Rosales, Alvaro Mauricio Lasso, Liliana Fernanda López, Diana María Girón, Nancy Gore Saravia
CIDEIM/Icesi, Cali, Colombia

LB-5252

Novel Detection of Leishmania RNA Virus-1 (LRV-1) in Clinical Isolates of Leishmania Viannia panamensis

Ruwandi Kariyawasam¹, Rachel Lau², Braulio M. Valencia³, Alejandro Llanos-Cuentas⁴, Andrea K. Boggild⁵

¹University of Alberta, Edmonton, AB, Canada, ²Public Health Ontario Laboratory, Toronto, ON, Canada, ³Kirby Institute, Sydney, Australia, ⁴Universidad Peruana Cayetano Heredia, Lima, Peru, ⁵Tropical Disease Unit, Toronto General Hospital and the University of Toronto, Toronto, ON, Canada

LB-5253

Spectrum of Bacterial Pathogens in Inflammatory and Non-Inflammatory Cutaneous Ulcers of American Tegumentary Leishmaniasis

Ruwandi Kariyawasam¹, Bryan Gascon², Priyanka Challa³, Jordan Mah⁴, Rachel Lau⁵, Braulio M. Valencia⁶, Alejandro Llanos-Cuentas⁷, Andrea K. Boggild³

¹University of Alberta, Edmonton, AB, Canada, ²University of Toronto, Toronto, ON, Canada, ³Tropical Disease Unit, Toronto General Hospital and the University of Toronto, Toronto, ON, Canada, ⁴University of Calgary, Calgary, AB, Canada, ⁵Public Health Ontario Laboratory, Toronto, ON, Canada, ⁶Kirby Institute, Sydney, Australia, ⁷Universidad Peruana Cayetano Heredia, Lima, Peru

LB-5254

Potential repurposing Posaconazole to treat Leishmaniasis; a highly conserved but underexploited mechanism of action blocking sterol synthesis

Yash Gupta¹, Jesus G. Romero², Thomas R. Caulfield¹, Daniel P. Becker³, Ravi Durvasula¹, **Prakasha Kempaiah**¹

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Poster Session C

Late-Breakers in Basic Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5255

Influence of Host Nutriome on Immunological Control of Trypanosoma cruzi Infection

Mariyam Mohammed¹, Michael Klowak², Ruwandi Kariyawasam³, Rachel Lau⁴, Ranie Ahmed¹, Afia Birago¹, Raesham Mahmood², Enrique Trinidad¹, Chelsia Watson¹, Shveta Bhasker¹, Milca Meconnen¹, Katherine Tan¹, Arghavan Omid¹, Mark Lachman¹, Emma Hagopian¹, Priyanka Challa¹, Michelle Zhao¹, Celine Lecce¹, Andrea K. Boggild¹
¹Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ²Institute of Medical Science, University of Toronto, Toronto, ON, Canada, ³Division of Diagnostic & Applied Medicine, Department of Laboratory Medicine & Pathology, Faculty of Medicine & Dentistry, University of Alberta, Edmonton, AB, Canada, ⁴Public Health Ontario Laboratories, Toronto, ON, Canada

LB-5256

Influence of Host Nutriome on Immunological Control of Leishmania Infection

Enrique Trinidad¹, Michael Klowak², Ruwandi Kariyawasam³, Rachel Lau⁴, Priyanka Challa¹, Celine Lecce¹, Shveta Bhasker¹, Emma Hagopian¹, Arghavan Omid¹, Afia Birago¹, Michelle Zhao¹, Mark Lachman¹, Mariyam Mohammed¹, Chelsia Watson¹, Ranie Ahmed¹, Milca Meconnen¹, Katherine Tan¹, Raesham Mahmood¹, Andrea K. Boggild¹
¹Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ²Institute of Medical Science, University of Toronto, Toronto, ON, Canada, ³Division of Diagnostic & Applied Medicine, Department of Laboratory Medicine & Pathology, Faculty of Medicine & Dentistry, University of Alberta, Edmonton, AB, Canada, ⁴Public Health Ontario Laboratories, Toronto, ON, Canada

LB-5257

The malaria parasite vacuolar phosphatase UIS2 is required for effector protein export

Manuel A. Fierro, **Josh R. Beck**
Iowa State University, Ames, IA, United States

LB-5258

Bridging the Gap in Reporting by Implementing Direct Service Data Reporting to DHIS Using Mobile Devices: Experience from MSH-Supported States, GF Malaria Grant in Nigeria

Chinedu Chukwu¹, Ralph Enushai², Isaac Adejo¹, Thomas Hall³, Sonachi Ezeiru⁴, Frank Oronsaye⁴, Diwe Ekweremadu⁴, Perpetua Uhomoibhi⁵, Chukwu Okoronkwo⁵, Nnenna Ogbulafor⁵, James Ssekitooleko⁶
¹Management Sciences for Health, Abuja, Nigeria, ²Management Sciences for Health, Abeokuta, Nigeria, ³Management Sciences for Health, Arlington, VA, United States, ⁴Catholic Relief Services, Abuja, Nigeria, ⁵National Malaria Elimination Programme, Abuja, Nigeria, ⁶Global Fund to Fight AIDS, Tuberculosis and Malaria, Geneva, Switzerland

LB-5259

Resistance to dual-stage antimalarial acridones conferred by acquisition of sequential, ordered mutations in the mitochondrial Plasmodium falciparum cytochrome B gene

Roland Arthur Cooper¹, Frida G. Ceja¹, Lizbeth G. Enriquez-Najera¹, Stephanie A. Rasmussen¹, Jinghua Lu², Rozalia A. Dodean³, Yuexin Li³, Papireddy Kancharla⁴, Michael K. Riscoe⁴, Jane X. Kelly⁴
¹Department of Natural Sciences and Mathematics, Dominican University of California, San Rafael, CA, United States, ²Laboratory of Immunogenetics, National Institutes of Health, Bethesda, MD, United States, ³Department of Veterans Affairs Medical Center, Portland, OR, United States, ⁴Department of Chemistry, Portland State University, Portland, OR, United States

LB-5260

Who are We Missing? Using Machine Learning Analytics to Help Determine Characteristics of Missed Households During ITN Mass Campaigns in Benin

Elijah Egwu¹, Bruno Paixao², Joseph Lewinski², Kathryn Clifton², Nickie Sene¹, Sean Gallagher¹, Suzanne Van Hulle², Ghislain Nana², Paul Wiedmaier²
¹Catholic Relief Services, Contonou, Benin, ²Catholic Relief Services, Baltimore, MD, United States

LB-5261

Tracking host gut bacterial community structure in the Plasmodium cynomolgi-rhesus macaque model of relapsing malaria

Danielle Farinella¹, Sukhpreet Kaur¹, Monica Cabrera-Mora², Chester J. Joyner³, Stacey A. Lapp², MaHPIC Consortium², Alberto Moreno², Mary R. Galinski², Regina Joice Cordy¹
¹Wake Forest University, Winston-Salem, NC, United States, ²Emory University, Atlanta, GA, United States, ³University of Georgia, Athens, GA, United States

Poster Session C

Late-Breakers in Basic Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5262

Robust, reproducible, and cloud-based analyses of long-read malaria sequencing data

Kiran V. Garimella¹, Rachel F. Daniels², Wesley Wong², Angela M. Early³, Sarah K. Volkman², Dyann F. Wirth²

¹Data Sciences Platform, Broad Institute of MIT and Harvard, Cambridge, MA, United States, ²Immunology and Infectious Diseases, Harvard T.H. Chan School of Public Health, Boston, MA, United States, ³Broad Institute of MIT and Harvard, Cambridge, MA, United States

LB-5263

Entomological risk factors associated with low-level transmission in a pre-elimination zone in southern Zambia

Victoria Kamilar¹, Jessica Schue¹, Mary Gebhardt¹, Harry Hamapumbu², Limonty Simubali², Twig Mudenda², William Moss¹, Jennifer Stevenson¹, Douglas Norris¹

¹Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ²Macha Research Trust, Choma, Zambia

LB-5264

The membrane-bound proton pumping pyrophosphatase (PfVP1) is critical for the malaria parasite *Plasmodium falciparum* to transit from the ring to trophozoite stage

Omobukola Solebo¹, Liqin Ling¹, Jing Zhou², Tianmin Fu³, **Hangjun Ke**¹

¹Drexel University, Philadelphia, PA, United States, ²Sichuan University, Chengdu, China, ³The Ohio State University, Columbus, OH, United States

LB-5265

The establishment of a mini-repository of urine mesenchymal stem cell lines to study the role of hemoglobinopathies in susceptibility to severe malaria

Cecilia E. Lekpor¹, Adriana Harbuzariu², Kwadwo A. Kusi¹, Michael D. Wilson¹, Andrew A. Adjei¹, Jonathan K. Stiles²

¹University of Ghana, Accra, Ghana, ²Morehouse School of Medicine, Atlanta, GA, United States

LB-5266

Understanding the Private Sector's Role in Malaria Control and Elimination Since the End of the Affordable Medicines Facility malaria (AMFm): A Systematic Review

Joseph Lewinski, Reilly Bench
Catholic Relief Services, Baltimore, MD, United States

LB-5267

Indoor Residual Spraying implementation in the wake of COVID - case of Mangochi, Balaka and Nkhatabay Districts, Malawi

Pascal Nelly Madhlopa, Prince Perfect Nkhata
World Vision Malawi, Lilongwe, Malawi

LB-5268

Massive open online courses (MOOC) for continuing education for public health professionals during the COVID-19 pandemic in the Democratic Republic of the Congo

Branly Mbunga¹, Desire Mashinda¹, Garyn Debondt², Mamana Mbiyavanga¹, Eric Mukomena³, Hornel Lama⁴, Grégoire Lurton⁴, Marie-Julie Lambert⁴, **Jimmy Anzolo**², Henry Ntuku⁵, Jicko Bondole², Jeanne Mundela², Aruna Abedi⁶, Edna Harimenshi², Trad Hatton², Hana Bilak²

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LB-5269

Mathematical Modeling of Plasmodium falciparum Growth In Vitro in Response to Prolonged Oxygen Stress

Dinah Nahid¹, Lauren Childs², Regina Joice Cordy¹
¹Wake Forest University, Winston-Salem, NC, United States, ²Virginia Tech, Blacksburg, VA, United States

Poster Session C

Late-Breakers in Basic Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5270

Reduced risk of placental parasitaemia associated with complement fixation by antibodies on Plasmodium falciparum among pregnant women

Herbert Opi¹, Michelle J. Boyle², Alistair R. McLean¹, Linda Reiling¹, Jo-Anne Chan¹, Danielle I. Stanisc³, Alice Ura⁴, Ivo Mueller⁵, Freya J. Fowkes¹, Stephen J. Rogerson⁶, James G. Beeson¹

¹Burnet Institute, Melbourne, Australia, ²QIMR Berghofer Medical Research Institute, Brisbane, Australia, ³Institute for Glycomics, Griffith University, Southport, Australia, ⁴Papua New Guinea Institute of Medical Research, Madang, Papua New Guinea, ⁵Walter and Eliza Hall Institute of Medical Research, Parkville, Australia, ⁶Department of Medicine, at the Doherty Institute, University of Melbourne, Melbourne, Australia

LB-5271

Assessing Compliance to COVID 19 Prevention and Control Measures During a Long Lasting Insecticide Treated Nets Distribution Campaign in Western Kenya

Elvis Oyugi¹, Jane Githuku², Agneta Mbithi², James Kiarie¹, George Githuka¹, Mildred Shieshia³, Brittany Shriver Iskarpatyoti⁴, Yazoume Ye²

¹Division of National Malaria Program, Nairobi, Kenya, ²U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/ICF, Nairobi, Kenya, ³U.S. President's Malaria Initiative, Nairobi, Kenya, ⁴U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill, North Carolina, NC, United States

LB-5272

Spatial patterns in malaria transmission in the context of limited access to care: A new prospective cohort study in Southeast Madagascar

Dr. Toky Ramarakoto¹, Benjamin Rice², Christopher Golden³, Joseph Lewinski⁴, James Hazen¹

¹Catholic Relief Services, Antananarivo, Madagascar, ²Princeton University, Princeton, NJ, United States, ³Harvard University School of Public Health, Cambridge, MA, United States, ⁴Catholic Relief Services, Baltimore, MD, United States

LB-5273

Prior Plasmodium infection increases susceptibility to severe secondary bacterial disease

Jenna Reed, Douglas Cornwall, Nathan Jacobs, Alex Caldwell, Tracey J. Lamb
University of Utah, Salt Lake City, UT, United States

LB-5274

Genomic epidemiology investigation of continued Plasmodium falciparum disease transmission after an outbreak in Ecuador

Shazia Ruybal-Pesántez¹, Fabián E. Sáenz², Samantha Deed³, Erik K. Johnson⁴, Daniel B. Larremore⁵, Claudia A. Vera-Arias², Kathryn E. Tiedje³, Karen P. Day³

¹Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia, ²Pontificia Universidad Católica del Ecuador, Quito, Ecuador, ³Department of Microbiology and Immunology, University of Melbourne, Bio21 Institute, Melbourne, Australia, ⁴Department of Applied Mathematics, University of Colorado Boulder, Boulder, CO, United States, ⁵Department of Computer Science, University of Colorado Boulder, Boulder, CO, United States

LB-5275

Spleen promotes clearance of artesunate-treated P. falciparum in Aotus, independent of the Pfk13 C580Y mutation

Angela C. Ellis¹, Shuchi N. Amin¹, Surika Maharaj², John Graves², Marvin Thomas², Crystal Hite², Jianbing Mu¹, **Juliana M. Sa¹**, Thomas Wellems¹

¹National Institutes of Health, Rockville, MD, United States, ²National Institutes of Health, Bethesda, MD, United States

LB-5276

A longitudinal study of Plasmodium malariae and ovale infection among children and adults in the Democratic Republic of the Congo

Rachel Sendor¹, Kristin Banek¹, Melchior Kashamuka Mwandagilirwa², Nono Mvuama², Joseph A. Bala², Marthe Nkalani², Georges Kihuma², Joseph Atibu Losoma², Kyaw Thwai¹, W. Matthew Svec¹, Varun Goel¹, Jeffrey A. Bailey³, Michael Emch¹, Margaret Carrel⁴, Jonathan J. Juliano¹, Antoinette Tshetu², Jonathan B. Parr¹

¹University of North Carolina at Chapel Hill, Chapel Hill, NC, United States, ²Kinshasa School of Public Health, Kinshasa, Democratic Republic of the Congo, ³Brown University, Providence, RI, United States, ⁴University of Iowa, Iowa City, IA, United States

Poster Session C

Late-Breakers in Basic Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5277

Flow cytometry Evaluation of Dormant Plasmodium falciparum Parasites Against Artemisinin-based Combination Therapy

Rosa Del Carmen Vargas Rodriguez

National University of the Peruvian Amazon, Iquitos, Peru

LB-5278

High Throughput NanoString Analysis of Plasmodium falciparum piggyBac Mutants in Pooled Screens

Min Zhang, Camilla Valente Pires, Chengqi Wang, Rays H. Y. Jiang, John H. Adams
Center for Global Health and Infectious Diseases, College of Public Health, University of South Florida, Tampa, FL, United States

LB-5279

Environmental Factors Associated with the Abundance of Known Rift Valley Fever Vectors During an Inter-Epidemic Period in central South Africa

Whitney Bagge¹, Alan Kemp², Assaf Anyamba³, Cornie van Huysteen⁴, Robert Brand⁵, Claudia Cordel⁶, Peter Thompson⁷, Noam Ross¹, Janusz Paweska², William Karesh¹, Melinda Rostal¹

¹EcoHealth Alliance, New York, NY, United States, ²Centre for Emerging Zoonotic and Parasitic Diseases, National Institute for Communicable Diseases of the National Health Laboratory Service, Sandringham, South Africa, ³NASA Goddard Space Flight Center, Biospheric Science Laboratory & Universities Space Research Association, Greenbelt, MD, United States, ⁴Department of Soil- and Crop- and Climate Sciences, University of the Free State, Bloemfontein, South Africa, ⁵Cuyahoga County Board of Health, Parma, OH, United States, ⁶ExecuVet (PTY) Ltd, Bloemfontein, South Africa, ⁷Department of Production Animal Studies, University of Pretoria, Onderstepoort, South Africa

LB-5280

Zika virus persistence in the male macaque reproductive tract

Erin E. Ball¹, Koen Van Rompay², Dawn M. Dudley³, Blake Schouest⁴, Antonito Panganiban⁴, Nicholas Maness⁴, Lark Coffey¹

¹Department of Pathology, Microbiology and Immunology, University of California, Davis, Davis, CA, United States, ²California National Primate Research Center, Davis, CA, United States, ³Department of Pathology and Laboratory Medicine, University of Wisconsin, Madison, Madison, WI, United States, ⁴Division of Microbiology, National Primate Research Center, Covington, LA, United States

LB-5281

Metagenomic pathogen screening in Haemaphysalis longicornis using iSeq 100

Ju Yeong Kim, Tai-Soon Yong

Yonsei University College of Medicine, Seoul, Republic of Korea

LB-5282

A preliminary report of filarial parasite DNA in field caught Mansonia indiana, suggestive of vector potentiality of Ma. indiana for the first time in Sri Lanka

Sachini U. Nimalrathna¹, Chandana H. Mallawarachchi², Nilmini Chandrasena³, Michael J. Kimber⁴, Nissanka B. de Silva¹, Nilanthi R. de Silva³, Hiruni Harischandra¹

¹University of Sri Jayawardenepura, Nugegoda, Sri Lanka, ²Medical Research Institute, Colombo, Sri Lanka, ³University of Kelaniya, Ragama, Sri Lanka, ⁴Iowa State University, Ames, IA, United States

LB-5283

Cloud-Based Applications for Accessing Climate Data to Support Disease Surveillance and Forecasting

Michael C. Wimberly, Dawn M. Nekorchuk, Ramcharan R. Kankanala
University of Oklahoma, Norman, OK, United States

LB-5284

Effect of Wolbachia infection on Insect specific viruses in Culex tarsalis cells

Sultan Asad¹, Rhys Parry², Jaime M. Alvarez¹, Jason L. Rasgon¹

¹Department of Entomology, the Center for Infectious Disease Dynamics, and the Huck Institutes of the Life Sciences, Pennsylvania State University, University Park, PA, United States, ²School of Chemistry and Molecular Biosciences, University of Queensland, St Lucia, QLD, Brisbane, Australia

Poster Session C

Late-Breakers in Basic Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5285

The role of vigilin in oogenesis and flavivirus infection of *Aedes aegypti* mosquitoes

Zannatul Ferdous, **Doug Brackney**
The Connecticut Agricultural Experiment Station, New Haven, CT, United States

LB-5286

Naturally host-biased minority West Nile virus P319L confers fitness in mosquito hosts only

Haley Caldwell¹, Lili Kuo¹, Janice Pata², Jamie Arnold³, Craig Cameron³, Laura Kramer¹, Alexander Ciota¹
¹*Wadsworth Center Arbovirus Laboratory, Slingerlands, NY, United States*, ²*Wadsworth Center, Slingerlands, NY, United States*, ³*University of North Carolina at Chapel Hill, Chapel Hill, NC, United States*

LB-5287

Detection of Alphavirus in Mosquitoes from Oklahoma

Caio Martinelle B. Franca¹, **Callie Campbell**¹, Christine Abraham¹, Garrett Bickley¹, Genesis Estevez², Hayden Jacobs³
¹*Southern Nazarene University, Bethany, OK, United States*, ²*University of Maryland, College Park, MD, United States*, ³*University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States*

LB-5288

A novel mouse model of Rift Valley Fever virus encephalitic disease

Haley N. Cartwright, Dominique J. Barbeau, Anita K. McElroy
University of Pittsburgh, PITTSBURGH, PA, United States

LB-5289

Integrate explainable AI approach on land use factors associated with spatial distributions of dengue in high and low transmission regions

Ting-Wu Chuang, Thị Nhung Nguyễn, Hsiu Yang
Taipei Medical University, Taipei, Taiwan

LB-5290

Investigation of yellow fever virus in non-human primates from 2019 to 2021, following two yellow fever waves in Minas Gerais, Southeast Brazil

Natalia I. Silva¹, Matheus S. Arruda¹, Gabriela F. Oliveira¹, Thais A. Costa¹, Érica M. Mello², Simone A. Silva³, Marlise C. Silva³, Munique G. Almeida³, Giliane S. Trindade¹, **Betânia P. Drumond**¹
¹*Universidade Federal de Minas Gerais, Belo Horizonte, Brazil*, ²*Center for Zoonosis Control - Belo Horizonte, Belo Horizonte, Brazil*, ³*Laboratory of Zoonosis - Belo Horizonte, Belo Horizonte, Brazil*

LB-5291

Early inoculation of African-lineage ZIKV leads to frequent fetal loss in rhesus macaques

Dawn Michelle Dudley¹, Jenna Rosinski¹, Lauren Raasch¹, Elaina Razo¹, Keisuke Yamamoto¹, Phoenix M. Shepherd¹, Meghan E. Breitbach¹, Christina M. Newman¹, Emily Sneed², Kerri Fuchs², Xiankun Zeng³, Kevin Noguchi⁴, Mason I. Bliss¹, Katrina Fauser¹, Heather A. Simmons², Matthew T. Aliota⁵, Thaddeus G. Golos¹, Thomas C. Friedrich¹, Emma L. Mohr¹, David H. O'Connor¹
¹*University of Wisconsin-Madison, Madison, WI, United States*, ²*Wisconsin National Primate Research Center, University of Wisconsin-Madison, Madison, WI, United States*, ³*United States Army Medical Research Institute of Infectious Diseases, Fort Detrick, MD, United States*, ⁴*Washington University, St. Louis, MO, United States*, ⁵*University of Minnesota, St. Paul, MN, United States*

Poster Session C

Late-Breakers in Basic Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5292

Use of a Temporal Transmission Chain in the 2020 Equateur Ebola Virus Outbreak to Identify Gaps in Disease Transmission and Investigate Community Deaths

Ruth P. Kallay¹, Mary J. Choi¹, Placide Mbala-Kingebeni², Eddy Kinganda-Lusamaki², John Kombe³, Christine L. Dubray¹, Shannon L. Whitmer¹, Gerry Makaya⁴, Francis M. Mbuyi⁴, Stuart T. Nichol¹, Joel Montgomery¹, Michael R. Wiley⁵, Catherine Pratt⁵, Dorothee Bulemfu³, Gaston Tshapenda³, Lisa E. Hensley⁶, Jamila Aboulhab⁷, Olivier Tshiani Mbaya⁸, Dante Bugli¹, Amy Whitesell¹, Trevor Shoemaker¹, Gnakub Norbert Soke¹, Steve Ahuka-Mundeke², Jean-Jacques Muyembe-Tamfum²

¹Centers for Disease Control and Prevention, Atlanta, GA, United States, ²INSTITUT NATIONAL DE RECHERCHE BIOMEDICALE, Kinshasa, Democratic Republic of the Congo, ³DIRECTION GENERALE DE LUTTE CONTRE LA MALADIE, Kinshasa, Democratic Republic of the Congo, ⁴Rumph and Associates, Alpharetta, GA, United States, ⁵University of Nebraska Medical Center, Omaha, NE, United States, ⁶The National Institute of Allergy and Infectious Diseases, Frederick, MD, United States, ⁷The National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States, ⁸Leidos Biomedical Research, Frederick, MD, United States

LB-5293

The Role of Anti-NS1 Antibodies in Asymptomatic Dengue Infection

Widuranga Kumbukgolla¹, Laksiri Gomes², Deshni Jayathilaka², Sunethrha Gunasena³, Neelika Malavige²
¹University of Colombo, Colombo, Sri Lanka, ²University of Sri Jayawardhanapura, Colombo, Sri Lanka, ³University of Ruhuna, Galle, Sri Lanka

LB-5294

Detection and Genetic Characterization of Onyong'nyong virus in febrile patients in Kenya.

Josphat N. Nyataya, Kimita Gathii, Faith Sigei, John Waitumbi
Kenya Medical Research Institute/US Army Medical Research Unit, Kisumu, Kenya

LB-5295

Antibody Responses against Ae. Aegypti Salivary Proteins in Ocana- Norte de Santander, 2019.

Olayinka Olajiga¹, Jenny C. Cardenas², Lady Y. Gutierrez-Silva³, Maria U. Gonzales⁴, Lucy Villamizar⁵, Berlin Londono-Renteria¹
¹Kansas State University, Manhattan, KS, United States, ²Laboratorio Clínico, Hospital Local Los Patios, Norte de Santander, Colombia, ³Laboratorio Clínico, E.S.E Hospital Emiro Quintero Cañizares, Ocaña, Norte de Santander, Colombia, ⁴Laboratorio Clínico, Hospital Erasmo Meoz de Cúcuta, Norte de Santander, Colombia, ⁵Laboratorio Clínico, E.S.E. Jorge Cristo Sahium Hospital, Cúcuta, Norte de Santander, Colombia

LB-5296

Metabolic basis of virus host interactions between Arboviruses and Aedes aegypti mosquitoes

Gabriela Ramirez¹, Nunya Chotiwan¹, Laura St Clair¹, Nurul Islam¹, Barbara Graham¹, Austin J. Mejia², John T. Belisle¹, Elizabeth A. McGraw², Rushika Perera¹
¹Colorado State University, Fort Collins, CO, United States, ²Pennsylvania State University, Pennsylvania, PA, United States

LB-5297

Effect of pre-existing dengue immunity on yellow fever virus infection in non-human primates

Divya Shinde¹, Jessica Plante¹, Kenneth Plante¹, Dionna Schariton¹, Brooke Mitchell¹, Sasha Azar², Livia Sacchetto³, Betânia P. Drumond⁴, Nikolaos Vasilakis⁵, Scott C. Weaver¹
¹World Reference Center for Emerging Viruses and Arboviruses, Department of Microbiology and Immunology, University of Texas Medical Branch, Galveston, TX, United States, ²Department of Pathology, University of Texas Medical Branch, Galveston, TX, United States, ³Faculdade de Medicina de São José do Rio Preto (FAMERP), São José do Rio Preto, Brazil, ⁴Federal University of Minas Gerais, Minas Gerais, Brazil, ⁵World Reference Center for Emerging Viruses and Arboviruses, Department of Pathology, University of Texas Medical Branch, Galveston, TX, United States

Poster Session C

Late-Breakers in Basic Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5298

The battle of glucosylceramide hydrolysis - why location matters in the dengue virus lifecycle

Laura A. St Clair¹, Carissa Drake², Michael Spedding³, David A. Priestman², Frances M. Platt², Rushika Perera¹
¹Colorado State University, Fort Collins, CO, United States, ²University of Oxford, Oxford, United Kingdom, ³Spedding Research Solutions, Le Vesinet, France

LB-5299

Chimeric DENV2/4 EDII virus elicits immune response to DENV2 and DENV4

Ellen Young¹, Sandra Henein², Petraleigh Pantoja-Maldona³, Boyd Yount¹, Jennifer McBride¹, Thomas Baric¹, Jennifer Munt¹, Deanna Zhu¹, Carlos Sariol³, Aravinda DeSilva², Ralph Baric¹
¹Dept. of Epidemiology, Chapel Hill, NC, United States, ²Micro. and Immuno. Dept., Chapel Hill, NC, United States, ³Caribbean Primate Research Center, University of Puerto Rico, PR, United States

LB-5300

Seroprevalence of Chikungunya virus in a population cohort study in Sao Jose do Rio Preto, São Paulo, Brazil, 2015-2019

Nathalia Zini¹, Natalia Morbi Cezarotti¹, Bruno Henrique Milhim¹, Leonardo Cecilio Rocha¹, Victor Miranda¹, Gislaine Celestino da Silva¹, Rafael Alves da Silva¹, Victoria Bernandri¹, Livia Pengo Sacchetto¹, Ana Carolina Bernardes Terzian², Mauricio Lacerda Nogueira¹
¹Faculdade de Medicina de São José do Rio Preto, São Paulo, Brazil, São José do rio Preto, Brazil, ²Instituto René Rachou - Fundação Oswaldo Cruz - Belo Horizonte, Minas Gerais- Brasil, Belo Horizonte, Brazil

LB-5301

Longitudinal effects of an on-site sanitation intervention on child diarrhea and acute respiratory infection 1-3.5 years after implementation in a cluster-randomized controlled trial in rural Bangladesh

Jesse D. Contreras¹, Mahfuza Islam², Andrew Mertens³, Amy J. Pickering³, Benjamin F. Arnold⁴, Jade Benjamin-Chung⁵, Alan E. Hubbard³, Mahbubur Rahman², Leanne Unicomb², Stephen P. Luby⁵, John M. Colford³, Ayse Ercumen¹
¹North Carolina State University, Raleigh, NC, United States, ²International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ³University of California, Berkeley, Berkeley, CA, United States, ⁴University of California, San Francisco, San Francisco, CA, United States, ⁵Stanford University, Stanford, CA, United States

LB-5302

Genome sequencing of stool samples from COVID 19 positive patients detects regionally prevalent SARS-CoV-2 Variants

Mallika Lavania, Varsha Potdar, Madhuri Joshi, Sujata Ranshing, Veena Vipat, Ujjaini Saha, Santosh Jadhav
ICMR-National Institute of Virology, Pune, India

Poster Session 95
Poster Session C
Late-Breakers in Clinical and Applied Sciences
Saturday, November 20, 11 a.m. - 12:30 p.m.

Arthropods/Entomology	#LB-5303 through LB-5308
Bacteriology and Diarrhea	#LB-5309 through LB-5316
Coronavirus.....	#LB-5317 through LB-5328
Global Health.....	#LB-5329 through LB-5345
Integrated Control Measures for NTDs	#LB-5346 through LB-5353
Malaria	#LB-5354 through LB-5374

LB-5303

Spider Envenomations Therapeutics and Antivenom Accessibility: A Systematic Review

Mofe Adeosun, Christian Lecce, Avinash N. Mukkala, Syed Zain Ahmad, Michael Klowak, Aisha Khatib, Priyanka Challa, Eric Shao, Jason Kwan, Tianna Chong-Kit, Jamie Sookhoo, Emma Hagopian, Dylan Kain, Andrea K. Boggild
Tropical Disease Unit, Toronto General Hospital and University of Toronto, Toronto, ON, Canada

LB-5304

A Systematic Review of Scorpion Envenomation Therapeutics and Antivenom Accessibility

Syed Zain Ahmad¹, Christian Lecce¹, Avinash Mukkala², Michael Klowak², Aisha Khatib¹, Priyanka Challa¹, Eric Shao¹, Jason Kwan¹, Tianna Chong-Kit¹, Jamie Sookhoo¹, Emma Hagopian¹, Dylan Kain¹, Mofe Adeosun¹, Andrea K. Boggild¹
¹*Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada*, ²*Institute of Medical Science, University of Toronto, Toronto, ON, Canada*

LB-5305

Increase in the malaria entomological inoculation rate following indoor residual spraying withdrawal in Atacora, Benin

Rock Aikpon¹, Cyriaque AFFOUKOU¹, Gil PADONOU², Patrick KONDO³, Ahmed S. Hassani³, Aurore OGOUYEMI-HOUNTO¹, Martin AKOGBETO¹
¹*NMCP, Cotonou, Benin*, ²*CREC, Cotonou, Benin*, ³*USAID, Cotonou, Benin*

LB-5306

Practical implementation of convolutional neural networks for mosquito species identification in operational vector surveillance practice

Tristan Ford, Bala Murali Manoghar Sai Sudhakar, Sanket Padmanabhan, Jewell Brey, George Constantine, Margaret Glancey, Adam Goodwin
Vectech, Baltimore, MD, United States

LB-5307

Rapid fieldable RNA detection in Vector Arthropods

James G. Mann, Jason Pitts
Baylor University, Waco, TX, United States

LB-5308

Forecasting West Nile Virus with Arbovirus Monitoring and Prediction (ArboMAP) in Multiple US States: A Comparison of Environmental Data Sources

Dawn M. Nekorchuk¹, Anita Bharadwaja², Gillian Capper³, Caio Martinelle de França⁴, Kimberly Signs³, Julius L. Tonzel⁵, Michael C. Wimberly¹
¹*University of Oklahoma, Norman, OK, United States*, ²*South Dakota Department of Health, Sioux Falls, SD, United States*, ³*Michigan Department of Health and Human Services, Lansing, MI, United States*, ⁴*Southern Nazarene University, Bethany, OK, United States*, ⁵*Louisiana Department of Health, New Orleans, LA, United States*

Poster Session C

Late-Breakers in Clinical and Applied Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5309

Therapeutic and Prophylactic Applications of Bacteriophage to Combat Various Tropical Diseases

Biswajit Biswas¹, Matthew Henry Henry², Kimberly A. Bishop-Lilly¹

¹Biological Defense Research Directorate, Naval Medical Research Center, Fort Detrick, Frederick, MD, United States, ²The Geneva Foundation, Tacoma, WA, United States

LB-5310

Evaluation of adherence to diagnostic testing guidelines and completeness of reporting for tick-borne diseases in central North Carolina

Amanda Brown Marusiak, Brandon Hollingsworth, Haley Abernathy, Aidin Alejo, Victor Arahirwa, Odai Mansour, Ross Boyce
University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

LB-5311

Test Characteristics of Stool Color for Predicting Infections with Vibrio Cholerae in Patients with Acute Diarrhea

Monique Gainey¹, Kexin Qu², Stephanie C. Garbern², Sabiha Nasrin³, Eric J. Nelson⁴, Nur H. Alam³, Adam C. Levine²

¹Rhode Island Hospital, Providence, RI, United States, ²Brown University, Providence, RI, United States, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁴University of Florida, Gainesville, FL, United States

LB-5312

Rifampin-Ofloxacin-Minocycline (ROM) for the Treatment of Paucibacillary Leprosy: A Systematic Review

Jahmar Hewitt¹, Michael Klowak², Shareese Clarke¹, Shveta Bhasker¹, Olamide Egbewumi¹, Arghavan Omid¹, Sahar Gholzom¹, Celine Lecce¹, Raesham Mahmood¹, Andrea K. Boggild¹

¹Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ²Institute of Medical Science, University of Toronto, Toronto, ON, Canada

LB-5313

The Treatment of Multibacillary Leprosy utilizing Rifampin-Ofloxacin-Minocycline (ROM): A Systematic Review

Michael Klowak¹, Shareese Clarke², Jahmar Hewitt³, Shveta Bhasker², Olamide Egbewumi², Arghavan Omid², Sahar Gholzom², Celine Lecce², Raesham Mahmood², Andrea K. Boggild²

¹Institute of Medical Science, University of Toronto, Toronto, ON, Canada, ²Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada, ³Tropical Disease Unit, Toronto General Hospital and the University of Toronto, Toronto, ON, Canada

LB-5314

Dietary Lifestyle Intervention for Leprous Neuropathy: A Randomized Control Trial Protocol

Michael Klowak¹, Andrea K. Boggild²

¹Institute of Medical Science, University of Toronto, Toronto, ON, Canada, ²Tropical Disease Unit, Toronto General Hospital, Toronto, ON, Canada

LB-5315

RAOULTELLA ORNITHINOLYTICA AS AN EMERGING PATHOGEN: TWO CASE REPORTS FROM A TEACHING HOSPITAL IN KUMASI, GHANA.

Alex Owusu-Ofori¹, Albert A. Aduborfour¹, Chris Oppong¹, Julius Amegah¹, Daniel Ansong², Isaac Boakye¹, Bernard Arhin¹, Thomas Gyampomah¹, Cynthia Yeboah¹, George Oduro¹, Josh Chenoweth³, Carlyle Gollogly³, Kevin Schully⁴, Charmagne Beckett⁵, Danielle Clark³

¹Komfo Anokye Teaching Hospital, Kumasi, Ghana, ²Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, ³Austere environments Consortium for Enhanced Sepsis Outcomes (ACESO), Bethesda, MD, United States, ⁴Biological Defense Research Directorate, Frederick, MD, United States, ⁵Naval Medical Research Center, Silver Spring, MD, United States

Poster Session C**Late-Breakers in Clinical and Applied Sciences***Saturday, November 20, 11 a.m. - 12:30 p.m.***LB-5316****Combined phylogenomic, epidemiologic, and geospatial cluster analyses to understand endemic typhoid fever transmission in Samoa**

Michael J. Sikorski¹, Sachin N. Desai², Jane Han², Siao Si Tupua³, Susana Nimarota-Brown³, Michelle Sialeipata³, Linatupu Punimata³, Savitra Rambocus⁴, Danielle J. Ingle⁴, Sebastian Duchene⁴, Susan A. Ballard⁴, Mary Valcanis⁴, Sara Zufan⁴, Tracy H. Hazen⁵, Jillian S. Gauld⁶, Mailis Maes⁷, Gordon Dougan⁷, Robert E. Thomsen³, Jianguo Ma⁸, Roy M. Robins-Browne⁴, Benjamin P. Howden⁴, Take K. Naseri³, Myron M. Levine², David A. Rasko⁵

¹Department of Microbiology and Immunology, University of Maryland School of Medicine, Baltimore, MD, United States, ²Center for Vaccine Development and Global Health, University of Maryland School of Medicine, Baltimore, MD, United States, ³Ministry of Health, Government of Samoa, Apia, Samoa, ⁴Microbiological Diagnostic Unit Public Health Laboratory, Department of Microbiology and Immunology at the Peter Doherty Institute for Infection and Immunity, The University of Melbourne, Melbourne, Australia, ⁵Institute for Genome Sciences, University of Maryland School of Medicine, Baltimore, MD, United States, ⁶Institute for Disease Modeling, Bellevue, WA, United States, ⁷Cambridge Institute of Therapeutic Immunology & Infectious Disease, Department of Medicine, University of Cambridge, Cambridge, United Kingdom, ⁸Department of Geographical Sciences, University of Maryland, College Park, MD, United States

LB-5317**SARS-CoV-2 Infection in Aged Golden Hamsters Leads to Severe Pulmonary Disease and Recapitulates Severe Human COVID-19 Disease**

Yu Cong¹, Ji Hyun Lee¹, Irwin Feuerstein¹, Dima Hammoud², Jurgen Seidel¹, Jeffrey Solomon³, Hui Wang¹, Marcelo Castro³, Christopher Bartos¹, Kurt Cooper¹, Louis Huzella¹, David X. Liu¹, Donna Perry¹, Amanda M.W. Hischak¹, Nejra Isic¹, Ricky Adams¹, Tracey Burdette¹, Janie Liang¹, Saurabh Dixit¹, Nicolette Schuko¹, Rong Li⁴, Yanan Liu⁵, Zhongde Wang⁵, Bart Tarbet⁶, Russell Byrum¹, Danny R. Ragland¹, Marisa St. Claire¹, Dong-Yun Kim¹, Travis Warren¹, Connie Schmaljohn¹, Lisa E. Hensley¹, Michael R. Holbrook¹, Reed F. Johnson¹

¹NIH/NIAID/IRF, Fort Detrick, MD, United States, ²NIH/CC/DRD, Bethesda, MD, United States, ³NIAID/DCR/OCSIRF, Fort Detrick, MD, United States, ⁴Utah State University, Logan, UT, United States, ⁵Utah State University, Logan, UT, United States, ⁶Utah State University, Logan, UT, United States

LB-5318**Clinical Features and Evidence Based Management of Multisystem Inflammatory Syndrome in Children During the Second Wave of COVID-19 In India- A Single-Center Experience**

Shreya Garg, Karan Raheja, Sachin Dubey, Saurabh Gupta
Yashoda Hospital and Research Centre, Ghaziabad, India

LB-5319**Molnupiravir for the treatment of COVID-19: a clinical development program update**

Matthew Johnson¹, Angelica Jayk Bernal², Pablo Moncada Vallejo³, Monica Gomes da Silva⁴, Dany Musungaie⁵, Evgeniy Kolvalchuk⁶, Antonio Gonzalez⁷, Alejandro Martin-Quiros⁸, Virginia Delos Reyes⁹, Yoseph Caraco¹⁰, Michelle Brown¹, Jiejun Du¹, Angela Williams-Diaz¹, Julie Strizki¹, Wei Gao¹, Joan Buttertont¹, Alison Pedley¹, Jay Grobler¹, Amanda Paschke¹, Carisa De Anda¹

¹Merck & Co., Inc., Kenilworth, NJ, United States, ²IMAT Oncomédica, Monteria, Colombia, ³Fundacion Valle del Lili, Cali, Colombia, ⁴Hospital de Clínicas UFPR Brazil, Curitiba, Brazil, ⁵Jongaie Research, Gauteng, South Africa, ⁶Medical Research Institute LLC, Saint Petersburg, Russian Federation, ⁷Advanced Research for Health Improvement LLC, Immokalee, FL, United States, ⁸Hospital Universitario La Paz, Madrid, Spain, ⁹Lung Center of the Philippines, Quezon City, Philippines, ¹⁰Hadassah-Hebrew University Medical Center, Jerusalem, Israel

LB-5320**COVID-19 Pandemic Response Support at the Naval Medical Research Center: Next Generation Sequencing of SARS-CoV-2 Samples using Illumina Short Reads**

Andrea E. Luquette¹, Andrew J. Bennett¹, Michael V. Deschenes¹, Luis A. Estrella¹, Logan J. Voegtly¹, Catherine E. Arnold¹, Kyle A. Long¹, Bishwo N. Adhikari¹, Gregory K. Rice¹, Matthew R. Lueder¹, Lindsay A. Glang¹, Dessiree Pena-Gomez¹, Adrian Paskey¹, Regina Z. Cer¹, **Francisco Malagon**¹, Lindsay C. Morton², Kimberly A. Bishop-Lilly¹

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Poster Session C

Late-Breakers in Clinical and Applied Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5321

Epidemiology of acute COVID-19 and variants of SARS-CoV-2 circulating in Manhica District, Southern Mozambique

Arsenia J. Massinga¹, Auria De Jesus¹, Nélio Nobela¹, Alcido Timana¹, Antonio Siteo¹, Felizarda Amosse¹, Sonia Enosse², Manoli Torres-Puente³, Khátia Munguambe¹, Caterina Guinovart⁴, Iñak Commas³, Alfredo Mayor⁴, Inacio Mandomando¹

¹Centro de investigação da Manhica, Manhica, Mozambique, ²Instituto Nacional de Saúde, Marracuene, Mozambique, ³Biomedicine Institute of Valencia, Valencia, Spain, ⁴ISGLOBAL, Hospital Clinic, Barcelona, Spain

LB-5322

Seroprevalence of Covid-19 antibodies, Active Surveillance in a rural community on the northern coast of Peru

Luz M. Moyano¹, Percy Vilchez², Ricardo Gamboa², sheila Noriega³, Jhon Ipanaque⁴, Victor herrera⁵, Alexandra Requena⁶, Denys Villareal⁷, Franco León⁸, Vicente Cordova-zarate⁹, Elaine castro¹⁰, Maria C. Chapillaquen¹⁰, Andrés M. Lama¹⁰, Raquel Ramos¹⁰, Jorge Lama⁵, Keyssi Amanqui¹⁰, Andy Mendoza-maldonado¹⁰, Harold Burgos¹⁰

¹Universidad Cesar Vallejo, Piura, Peru, ²Center for Global Health, Universidad Peruana Cayetano Heredia, Tumbes, Peru, ³Dirección Regional de Salud Tumbes, Tumbes, Peru, ⁴Universidad Nacional de Tumbes, Tumbes, Peru, ⁵Dirección Regional de salud Tumbes, Tumbes, Peru, ⁶Universidad nacional de Tumbes, Tumbes, Peru, ⁷Center for Global Health, Universidad peruana Cayetano Heredia, Tumbes, Peru, ⁸Universidad Cesar Vallejo, TRujillo, Peru, ⁹Dirección regional de Salud de Tumbes, Tumbes, Peru, ¹⁰Dirección Regional de Salud de Tumbes, Tumbes, Peru

LB-5323

Two-test algorithms for infectious diseases diagnosis: implications for COVID-19

Sunil Pokharel¹, Lisa J. White¹, Jilian A. Sacks², Camille Escadafal², Amy Toporowski², Kekeletso Kao², Marcela De Melo Freitas², Sabine Dittrich²

¹University of Oxford, Oxford, United Kingdom, ²Foundation for Innovative New Diagnostics (FIND), Geneva, Switzerland

LB-5324

Methylene Blue for Management of Hospitalised Patients Infected with SARS-CoV-2 During the Second Wave of COVID-19 Pandemic in India

Vivek Redkar¹, Sagar Redkar², Supriya Redkar², Darshan Khanolkar³, Mohan Jagtap³, Manohar Inamdar⁴, B J Shinde⁵, Vaishali Pawar⁶, Aparna Patange⁶, Vijay Patil⁷

¹Redkar Hospital and Research Centre, Malwan and Dhargal, Goa, India, ²Redkar Hospital and Research Centre, Dhargal, Goa, India, ³Redkar Hospital and Research Centre, Malwan, India, ⁴Ashwini Hospital, Akhuj, India, ⁵B J Shinde Hospital, Raigad, India, ⁶Krishna Institute of Medical Sciences, Karad, India, ⁷Prakash Institute of Medical Sciences, Islampur, India

LB-5325

Burden of Chronic Diseases in migrant workers in Singapore and impact on COVID-19: A large single-centre cross-sectional study

Sapna P. Sadarangani¹, Joshua K. Tan², Pei Hua Lee², Hanley Ho², Rinkoo Dalan², Angela Chow², Lai Gwen Chan², Thirugnanam Umaphathi², Shawn Vasoo¹

¹National Centre for Infectious Diseases, Singapore, Singapore, ²Tan Tock Seng Hospital, Singapore, Singapore

LB-5326

Prospective Randomized Trial to Evaluate the Efficacy and Safety of Thymosin Alpha-1 in Moderate COVID-19 patients

Om Srivastav¹, Shreya Das²

¹Jalsok, HN Reliance and Kasturba Hospital, Mumbai, India, ²SMT Kashibai Nawle Medical College, Pune, India

LB-5327

Mask wearing compliance in dedicated COVID-19 tertiary hospitals of Bangladesh: Results from observation in hospital's inpatient and outpatient wards.

Shariful Amin Sumon¹, Dr. Md. Zakiul Hassan¹, Dr. Aninda Rahman², Dr. Syed Abul Hassan Md Abdullah³, Ashley Rene Styczynski⁴, Md. Saiful Islam⁵, Md. Golam Dostogir Harun¹

¹icddr, Dhaka, Bangladesh, ²Communicable Disease Control, Directorate General of Health Services, Dhaka, Bangladesh, ³Safetynet, Dhaka, Bangladesh, ⁴Division of Infectious Diseases and Geographic Medicine, Stanford University, California, CA, United States, ⁵University of New South Wales, New South Wales, Australia

Poster Session C

Late-Breakers in Clinical and Applied Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5328

Development of an Enzyme-Linked Immunosorbent Assay to Detect SARS-CoV-2 Antibody Responses in Breast Milk

Ling Qing Xu, Anne-Marie Rick, Anita McElroy
University of Pittsburgh, Pittsburgh, PA, United States

LB-5329

Acceptability and Usability of Mobile Application for monitoring Cutaneous Leishmaniasis treatment in Colombia

Martha Milena Bautista Gomez, Laura Sofia Zuluaga Gutierrez, Alexandra Cossio
CIDEIM - centro internacional de entrenamiento e investigaciones médicas, Cali, Colombia

LB-5330

Development and validation of a prognostic model for predicting survival in pediatric patients with Ebola Virus Disease (EVD)

Alicia E. Genisca¹, **Kelsey M. Butler**², Tzu-Chun Chu³, Lawrence Huang⁴, Monique Gainey⁵, Mbong Eta Ngole⁶, Stephen B. Kennedy⁷, Razia Laghari⁶, Fiston Nganga⁶, Rigobert Fraterne Muhayangabo⁶, Himanshu R. Vaishnav⁸, Shiromi Perera⁹, Moyinoluwa Adeniji⁴, Adam C. Levine¹, Ian C. Michelow¹, Andres Colubri²
¹*Warren Alpert School of Medicine of Brown University, Providence, RI, United States*, ²*University of Massachusetts Medical School, Worcester, MA, United States*, ³*University of GA, Athens, GA, United States*, ⁴*Brown University, Providence, RI, United States*, ⁵*Rhode Island Hospital, Providence, RI, United States*, ⁶*International Medical Corps, Goma, Democratic Republic of the Congo*, ⁷*Ministry of Health (MoH), Monrovia, Liberia*, ⁸*Brown Emergency Medicine, Providence, RI, United States*, ⁹*International Medical Corps, Washington, DC, United States*

LB-5331

Informing evidence-based strategies for Bolivia to achieve the World Health Organisation target of zero catastrophic costs for tuberculosis-affected households.

Paula P. Carballo-Jimenez¹, Sumona Datta¹, Luz Quevedo¹, Linda Chaname-Pinedo², Soraya Roman³, Freddy Tinajeros⁴, Carmen Ortuño³, Lidia Flores³, Daniel Encinas³, Robert H. Gilman⁵, Carlton A. Evans¹, Matthew J. Saunders¹, Matthew J. Saunders¹

¹*Imperial College London, London, United Kingdom*, ²*Prisma NGO, Lima, Peru*, ³*Bolivian National TB program, Santa Cruz de la Sierra, Plurinational State of Bolivia*, ⁴*Prisma NGO, Santa Cruz de la Sierra, Plurinational State of Bolivia*, ⁵*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*

LB-5332

The use of digital technologies in community health programs: A landscape analysis of PMI's 27 partner countries

Emily Carnahan¹, Monica Kothari², Sarah Burnett², Henry Mwanyika³, Ayano Ogawa¹, Kammerle Schneider¹, Anzél Schönfeldt⁴, Zahra Lutfeali¹
¹*PATH, Seattle, WA, United States*, ²*PATH, Washington, DC, DC, United States*, ³*PATH, Dar es Salaam, United Republic of Tanzania*, ⁴*PATH, Johannesburg, South Africa*

LB-5333

Comparative assessment of Lassa virus immunoglobulin G-specific serological assays

Ephraim Ogbaini-Emovon¹, Donald Grant², **Hanesh Fru Chi**³, Mambu Momoh², John Demby Sandi², Rita Esumeh¹, Ighodalo Yemisi¹, Rachael Omiunu¹, Babatunde Oluwasola Femi¹, Augustine Goba², Deborah Ehichioya¹, Fritz Fonkeng³, Sylvanus Okogbenin¹, Cyril Erameh¹, Nelson Adedosu⁴, Chiedozie Kingsley Ojide⁵, Robert F. Garry⁶, Stephan Guenther⁷, Devy M. Emperador³, Jilian A. Sacks³
¹*Irrua Specialist Teaching Hospital, Irrua, Nigeria*, ²*Kenema Government Hospital, Kenema, Sierra Leone*, ³*FIND, Geneva, Switzerland*, ⁴*Federal Medical Center Owo, Owo, Nigeria*, ⁵*Federal Teaching Hospital Abakaliki, Abakaliki, Nigeria*, ⁶*Tulane School of Medicine, New Orleans, LA, United States*, ⁷*Bernhard Nocht Institute of Tropical Medicine, Hamburg, Germany*

LB-5334

Doxycycline six weeks courses are acceptable for lymphedema management in Malian rural areas despite a Covid-19 pandemic context

Yaya I. Coulibaly¹, Abdoul F. Diabate¹, Moussa Sangaré¹, Housseini Dolo¹, Ayoubou Diarra¹, Michel E. E. Coulibaly¹, Lamine Soumaoro¹, Abdallah A. Diallo¹, Amatigue Zeguime¹, Salif S. Doumbia¹, Siaka Y. Coulibaly¹, Yacouba Sanogo¹, Adama Berthe¹, Fatoumata D. Konipo¹, Sekou Thera¹, Amy Klion², John Horton³, Sarah Sullivan⁴, Thomas B. Nutman²
¹*International Center for Excellence in Research, Bamako, Mali*, ²*National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States*, ³*Tropical Projects, Hitchin, United Kingdom*, ⁴*Taskforce for Global Health, Decatur, GA, United States*

Poster Session C

Late-Breakers in Clinical and Applied Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5335

Epidemiology and risk factors of type 2 diabetes among rural residents in Sikasso, Mali

Abdoulaye Diawara¹, Mamadou Wele¹, Talib Y. Abbas², Mahamadou Diakite¹, Kassim Traore³, Seydou O. Doumbia¹, Jeffrey G. Shaffer⁴

¹University of Sciences, Techniques and Technologies of Bamako, Mali, Bamako, Mali, ²Maulana Azad Medical College, New Delhi, India, ³Campbell University, Buies Creek, NC, United States, ⁴Tulane University, NEW ORLEANS, LA, United States

LB-5336

Barriers to Research Leadership in the Global South

Nicole Feune de Colombi, Bonny L. Baker, Arancha De La Horra Gozalo, Trudie Lang
The Global Health Network, University of Oxford, Oxford, United Kingdom

LB-5337

Innovative Approach to Data Quality Improvement at All Levels of the Health System in Cote d'Ivoire

Leontine Gnassou¹, Steve Ollis², Aimain Serge³, Brittany Iskarpotyoti⁴
¹U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/JSI, Abidjan, Côte D'Ivoire, ²U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill/JSI, Arlington, VA, United States, ³National Malaria Control Program, Cote d'Ivoire, Abidjan, Côte D'Ivoire, ⁴U.S. President's Malaria Initiative Measure Malaria, University of North Carolina at Chapel Hill, Chapel Hill, NC, United States

LB-5338

Strengthening research capacity during the Zika outbreak and building future preparedness: the REDe Network

Bonny Baker¹, Luiza M. Lourenco², Flávia T. Bueno³, Nicole Feune de Colombi¹, **Trudie Lang**¹
¹The Global Health Network, University of Oxford, Oxford, United Kingdom, ²University of Brasilia, Brasilia, Brazil, ³Oswaldo Cruz Foundation - Fiocruz, Rio de Janeiro, Brazil

LB-5339

Socioeconomic measurement and change across rural and urban communities in Ecuador: implications for public health

Peter S. Larson¹, Gwenyth Lee¹, Penny Warmanen¹, William Cevallos Trujillo², Joseph N. Eisenberg¹
¹University of Michigan, Ann Arbor, MI, United States, ²Universidad Central del Ecuador, Quito, Ecuador

LB-5340

Factors associated with unfavorable trachoma surveillance survey results after elimination as a public health problem in Amhara, Ethiopia: Results from 51 district-level surveys

Phong Le¹, Eshetu Sata², Andrew W. Nute³, Zebene Ayele², Demelash Gessese², Mulat Zerihun², Ambahun Chernet², Berhanu Melak², Kimberly A. Jensen³, Mahteme Haile⁴, Taye Zeru⁴, Zerihun Tadesse², E. Kelly Callahan³, Scott D. Nash³
¹Rollins School of Public Health, Emory University, Atlanta, GA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³The Carter Center, Atlanta, GA, United States, ⁴Amhara Public Health Institute, Research and Technology Transfer Directorate, Bahir Dar, Ethiopia

LB-5341

Turning research results into recommendations that are taken up to change health: Enhancing the Uptake of Findings into Policy and Practice

Wema M. Mtika, Nicole Feune De Colombi, Trudie Lang
The Global Health Network, University of Oxford, Oxford, United Kingdom

LB-5342

Impact of government-imposed social distancing measures on COVID-19 morbidity and mortality around the world

Miguel Reina Ortiz, Daniel Chacretton, Nicole Le, Ismael Hoare, Ricardo Izurieta
University of South Florida, Tampa, FL, United States

Poster Session C

Late-Breakers in Clinical and Applied Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5343

Field evaluation of microchip-based point-of-care device 'Gazelle' for newborn screening in Ghana

Catherine Segbefia¹, Yvonne Dei-Adomakoh², Enoch Mensah³, Ran An⁴, Anne Rocheleau⁵, Priyaleela Thota⁵, Umut Gurkan⁴, Isaac Odame⁶

¹*School of Dentistry and Medicine-College of Health Sciences-University of Ghana, Pediatric Oncology Unit-Child Health, Accra, Ghana*, ²*Korle Bu Teaching Hospital, Accra, Ghana*, ³*Department of Haematology, University of Ghana Medical School, Accra, Ghana*, ⁴*Case Western Reserve University, Cleveland, OH, United States*, ⁵*Hemex Health, Portland, OR, United States*, ⁶*Department of Pediatrics, University of Toronto, Toronto, ON, Canada*

LB-5344

Training and research for the next generation West African investigators: Impact of African Center of Excellence in Bioinformatics

Mamadou Wele¹, **Jeffrey G. Shaffer**², Jian Li², Cheickna Cisse², Christopher Whalen³, Mahamadou Diakite¹, Darrell Hurt³, Doulaye Demebele⁴, Abdoulaye Djimde⁴, Yaya Kassogue¹, Cheick Oumar Tangara¹, Mike Tartakovsky³, Seydou O. Doumbia¹

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LB-5345

The Global Health Training Centre: 2 Million e-Learning courses taken and delivering high impact research training, especially to those who need it most.

Sinead Whitty, Lauren Whelan, Kehkashan Shah, Kehkashan Shah
The Global Health Network, University of Oxford, Oxford, United Kingdom

LB-5346

A sustainability assessment of the Neglected Tropical Diseases Control Program in 17 provinces of Angola

Maria Cecília Almeida¹, Elsa Palma Mendes¹, Peliganga Luís Baião¹, Tânia Gourgel¹, Rilda Epifania Cristovão¹, Júlio Ramirez², Mary Chimbili², Ana Direito²,

Liya Assefa³, Sérgio Lopes²

¹*Neglected Tropical Diseases Control Program, National Directorate for Public Health, Ministry of Health Angola, Luanda, Angola*, ²*The MENTOR Initiative, Luanda, Angola*, ³*The END Fund, New York, NY, United States*

LB-5347

A double-blind study of 6-week doxycycline or placebo added to limb hygiene in Sri Lankan patients with filarial lymphedema

Yahathugoda T. Channa¹, Mirani V. Weerasooriya², Nirmitha L. De Silva¹, Janaka Ruben¹, Sharmini Gunawardena³, Sarah Sullivan⁴, John Horton⁵

¹*University of Ruhuna, Galle, Sri Lanka*, ²*General Sir John Kotelawala Defence University, Colombo, Sri Lanka*, ³*University of Colombo, Colombo, Sri Lanka*, ⁴*Task Force for Global Health, Decatur, GA, United States*, ⁵*Tropical Projects, JHitchin, United Kingdom*

LB-5348

Searching for Evidence of Yaws Recrudescence: An Analysis of Treponemal Antibody Seroprevalence- Nigeria, 2018

Sarah Anne J. Guagliardo¹, Nishanth Parameswaran¹, Agala Ndidi², Ado G. Abubakar², Stacie M. Greby³, Nnaemeka Iriemenam³, Matthias Alagi³, Tun Ye¹, Mary Kamb¹, Diana Martin¹

¹*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ²*Institute of Human Virology, Abuja, Nigeria*, ³*Centers for Disease Control and Prevention, Abuja, Nigeria*

Poster Session C

Late-Breakers in Clinical and Applied Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5349

Prevalence and Associations of Schistosoma Infection in an Urban Acute Febrile Illness Cohort in West Africa

Nkechinyere E. Harrison¹, Casey K. Storme², Emmanuel C. Achugwo¹, Uzoamaka C. Agbaim¹, Olutunde A. Adegbite¹, Kenneth Oruka¹, Jumoke Nwalozie¹, Abdulwasii B. Tiamiyu³, Zahra F. Parker⁴, Edward A. Akinwale³, Esther O. Isaiah¹, Olusanya O. Oyerinde¹, Rosemary Ndubuisi¹, Johnbull C. Mbibi¹, Edward Nyarko⁵, Suzanne Mate⁶, Mihret Amare⁴, Kara Lombardi⁷, Leigh Ann Eller⁷, Jayda Jones⁴, Jeffrey Koehler⁸, Keersten Ricks⁸, Randal Schoepp⁸, Amy Castellano⁷, Ayesha Rashid⁷, Daniel Choi⁷, Mark Milazzo⁷, Heather Liu⁷, Jarrett Headley⁴, Andrew Letizia⁹, Joseph Diclaro¹⁰, Paul T. Scott⁶, Nelson Michael¹¹, Julie A. Ake¹², Melanie McCauley⁴, Michael Iroezindu³, Kayvon Modjarrad⁶
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LB-5350

Rapid Qualitative Assessment of Community Based Continuous Distribution of Insecticide Treated Bed nets through Coupon mechanism in Zanzibar

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LB-5351

Covid associated Mucormycosis-Profile of a new epidemic during the pandemic

Suma Radhakrishnan¹, Mohammed Afsal E¹, Mariyam Sherine¹, Anju Kesavan¹, Chinchu S¹, Hafeefa Abdul nazeer¹, Hafees Abdullah Perumbally¹, Suchina E K¹, Ajayan K V¹, Anitha P M¹, Chandni Radhakrishnan²
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LB-5352

Cutaneous Leishmaniasis in Angola: an historical report of a continued focus of transmission in Huambo province

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LB-5353

Blueprint for Elimination of Lymphatic Filariasis (BELF) and Trachoma (BETR) an excel based tool for monitoring of the program

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Poster Session C

Late-Breakers in Clinical and Applied Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5354

Three years of combined malaria microscopy refresher trainings and quarterly outreach, training, and supportive supervision visits led to performance improvements in Guinea-Conakry

Mariam Bahova¹, Julie Niemczura de Carvalho¹, Sandra Incardona¹, Gniouma Benoit Tolno², Jordan M. Smith¹, Luis Benavente¹, Aissata Fofana³, Lamine Bangoura³, Alioune Camara⁴, Eugène K. Lama⁴
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LB-5355

Education and knowledge help fighting malaria, but health systems need to be strengthened: a cross-sectional study in Cote d'Ivoire

Edouard C. Balogoun¹, Manasse Kassi¹, Philomène A. Beda¹, Jacob Y. Agniman¹, Serge B. Assi², Florence Kadjo-Kouadio³, Michel N'da-Ezoa⁴, Aristide E. Kouadio¹, Joel Koffi¹, Apollinaire N. Kouadio¹, Paul Bouey⁵, Sara Canavati⁵, Eric Swedberg⁵
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LB-5356

Distinct antibody responses to Plasmodium antigens reveal candidate biomarkers of the intensity and timing of past exposure to malaria

Sophie Bérubé, Tamaki Kobayashi, Amy Wesolowski, Douglas E. Norris, Ingo Ruczinski, William J. Moss, Thomas A. Louis
Johns Hopkins University Bloomberg School of Public Health, Baltimore, MD, United States

LB-5357

Factors affecting adoption of malaria-preventive behaviors among populations at high risk of malaria in Cote d'Ivoire

Jacob Y. Agniman¹, Manasse N. Kassi¹, Yssouf Ouattara¹, Edouard C. Balogoun¹, Serge B. Assi², Philomène A. Beda¹, Michel N'da-Ezoa³, Aristide E. Kouadio¹, Joel Koffi¹, Apollinaire N. Kouadio¹, Paul Bouey⁴, **Sara Canavati**⁴, Eric Swedberg⁴

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LB-5358

Prevalence of sulfadoxine-pyrimethamine drug-resistance molecular markers in Plasmodium falciparum parasites from pregnant women in Montserrado and Margibi Counties, Liberia

David M. Cook¹, Kumblytee L. Johnson², Dehkontee Dennis², Hamma Maiga¹, Jillian Neal¹, Esther Akpa¹, Moses Badio², Nannie Kenyen², Dorothy Mangou², Louvina Sumbo², Julie Blie², John Fayiah³, Victor S. Koko⁴, Irfan Zaidi¹, Fatorma K. Bolay³, Mosoka Fallah², Patrick E. Duffy¹
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LB-5359

Prevalence of hrp2/3 deletions in Plasmodium falciparum among pregnant women and infants in Montserrado and Margibi Counties, Liberia

David M. Cook¹, Dehkontee Dennis², Kumblytee L. Johnson², Hamma Maiga¹, Jillian Neal¹, Esther Akpa¹, Moses Badio², Nannie Kenyen², Dorothy Mangou², Louvina Sumbo², Julie Blie², Victor S. Koko³, Irfan Zaidi¹, Fatorma K. Bolay⁴, Mosoka Fallah², Patrick E. Duffy¹
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LB-5360

Pocket-sized levitation and imaging platform for malaria screening in resource-limited settings.

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Poster Session C

Late-Breakers in Clinical and Applied Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5361

Tracking malaria prevalence and intervention coverage estimates through antenatal care (ANC) attendees in Chadiza District, Eastern Province, Zambia: Progress and lessons learned, March 2020-June 2021

Chabu Kangale¹, Maximillian Musunse¹, Caroline Phiri-Chibawe¹, Busiku Hamainza², Paul Psychas³, Elizabeth Heilmann⁴, Julie Thwing⁵, John M. Miller⁶, Travis R. Porter¹, Julie R. Gutman⁵
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LB-5362

Characterization of Plasmodium falciparum drug resistance in Rwanda circa 2014 using demographic health survey samples and a hybrid amplicon plus molecular inversion probe approach.

Rebecca Kirby¹, David Giesbrecht¹, Savannah Lewis¹, Corine Karema², Jonathan Juliano³, Jean-Baptiste Mazerati², Jeffrey Bailey¹
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LB-5363

Molecular Surveillance for Drug Resistant Plasmodium falciparum imported to Ontario

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LB-5364

Electrochemical biosensors for differential detection of Plasmodium species. Development of POC device

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LB-5365

Molecular markers of drug resistance at two rural sites in Mali after five years of seasonal malaria chemoprevention: Pfdhps K540E and A581G

HAMMA MAIGA¹, Robert Morrison², Issaka Sagara³, Jennifer Hume¹, Sara Healy¹, Mahamadoun H. Assadou³, Abdoulaye Katile³, Amatique Zeguime³, Jillian Neal¹, Irfan Zaidi¹, Patrick E. Duffy¹
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LB-5366

High prevalence of Pfdhps and Pfdhfr molecular markers of anti-malarial drug resistance during subpatent parasitemia in Doneguebougou, Mali

HAMMA MAIGA¹, Robert Morrison¹, Issaka Sagara², Sara Healy¹, Abdoulaye Katile², Amatique Zeguime², Patrick Gorres¹, Patrick E. Duffy¹
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Poster Session C

Late-Breakers in Clinical and Applied Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5367

Whole Blood Transfusion for Severe P. falciparum Malaria Complicated by Thrombocytopenia: Protocol for a Pilot Randomized Controlled Trial within the CHASM Cohort

Rubab F. Malik¹, Jean-Bertin B. Kabuya², Luc K. Kamavu³, Sung-Jae Cha⁴, Marcelo Jacobs-Lorena⁴, Gershom Chongwe², William J. Moss⁵, Matthew M. Ippolito⁶

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LB-5368

Quantifying nomadic mobility and its impact on malaria transmission in Turkana, Kenya

Hannah R. Meredith¹, Amy Wesolowski², Linda Maraga³, George Ambani⁴, Lucy Abel⁴, Gilchrist Lokoel⁵, Samuel Lokemer⁵, Andrew Obala⁶, Wendy P. O'Meara¹

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LB-5369

Durable high efficacy of the malaria vaccine candidate R21/Matrix-M in Burkina Faso children after a 12 month booster dose

Hamtandi Magloire Natama¹, Mehreen Dattoo², M. Athanase Somé¹, Ousmane Traoré¹, Toussaint Rouamba¹, Duncan Bellamy², Prisca Yaméogo¹, Daniel Valia¹, Moubarak Tegneri¹, O. Florence Ouédraogo¹, Rachidatou Soma¹, Faizatou Sorgho¹, Fernando Ramos-Lopez², Alison Lawrie², Rachel Roberts², Matthew Cairns³, Nicola Williams², Jenny Reimer⁴, Innocent Valea¹, Hermann Sorgho¹, Katie Ewer²,

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LB-5370

Baseline malaria parasite prevalence preceding a mass drug administration trial in Senegal

Aminata Colle Lo¹, Elhadji Ba Konko Ciré¹, Amadou Seck¹, Alioune Badara Gueye², Katharine Sturm-Ramirez³, Fatou Ba⁴, Seynabou Gaye⁴, Ibrahima Diallo⁴, Abdoulaye Diallo¹, Sylla Thiam¹, Tidiane Ndoeye⁵, Tidiane Gadiaga⁶, Tabitha Kibuka⁷, Elhadji Diouf⁸, Jimee Hwang⁹, Julie Thwing¹⁰, Roly Gosling⁸, Michelle S Hsiang⁸, Adam Bennett⁸, Michelle E Roh⁸, **Jean Louis Ndiaye**¹

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LB-5371

Sequence analysis of Plasmodium falciparum histidine-rich protein 2 and 3 genes from returning travelers to Africa

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Poster Session C

Late-Breakers in Clinical and Applied Sciences

Saturday, November 20, 11 a.m. - 12:30 p.m.

LB-5372

Critical Need for the RTS,S/AS01 Malaria Vaccine Implementation in Nigeria - Partnership between government and a local Foundation to Coordinate and Mobilize Stakeholders and Resources for Commencement

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LB-5373

Recurrent malaria infections and COVID-19 symptomatology in native communities from Amazonas, Peru

Cecilia Pajuelo-Reyes¹, Carla C. Montenegro¹, Norma Cruz², Angelica Vigil-Correa¹, Rafael Tapia-Limonchi¹, Juan R. Tejedo³, Stella M. Chenet¹
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LB-5374

Clinical and sub-clinical antenatal malaria surveillance compared to test positivity rate and health facility incidence in three countries

Molly Robertson¹, Adama Gansané², Baltazar Candrinho³, Perpetua Uhomoibhi⁴, Julia Mwesigwa⁵, Peder Digre⁶, Christelle Gogue¹, Kenzie Tynuv¹, Kyra Arnett⁶, Joseph Wagman¹, Hannah Koenker⁷, René N. Kinda², Okefu Oyale Okoko⁴, Emmanuel Obi⁴, Dele Babarinde⁸, Ali Onoja⁸, Patrick Walker⁹, Rose Zulliger¹⁰, Julie R. Gutman¹¹

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