



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

SIXTY-SEVENTH

ANNUAL MEETING

Sheraton New Orleans and New Orleans Marriott | New Orleans, LA USA

October 28 – November 1, 2018

LATE BREAKER ABSTRACTS PRESENTATION SCHEDULE

“There will be epidemics...”

EBOLA: WORLD GOES ON RED ALERT

Six Dead, 17 Sick From
Drug-Resistant TB
-2017

Spread of Spanish Flu Menaces War Production -1918

Charity to Help Fight
Malaria in Africa
-2010

Dengue Dengue
EVERYWHERE
-2017

Ebola Out of Control -2014

ASTMH Annual Meeting
Cancelled Due to
Spanish Flu Outbreak
-1918

Success in Tests of Yellow
Fever Serum Reported
-1932

FDA Busts Fake
Malaria Medicines
-2013

African Countries to Plot New Malaria Vaccine

ZIKA THREAT
ON OUR
DOORSTEP
-2016

An American
Plague:
Yellow Fever
Epidemic of 1793
-2005

Island Declares State of Emergency
Over Zika Virus, Dengue Fever Outbreak
-2016

Malaria Cases
on the Rise
in Last 3 Years
-2016

QUARANTINE WANTED
as Yellow Fever Spreads
-1878

Brace for
Dengue
-2017

Zika Spreads Worldwide
-2016

New Hope
for AIDS Drug
-1996

Officials: Texas Sees Growing
Number of Typhus Cases
-2017

Death Toll Growing as Influenza
Claims Many Score Victims
-1918

Cholera Epidemic
in Yemen Now
Affects One
Million People
-2017

Been to an Ebola-affected country?
Stay away from ASTMH meeting, Louisiana says
-2014

Panic as
1,500
Die of
Malaria
-1898

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Late-Breaker Abstract Session 23
Late-Breakers in Clinical and Applied Sciences
Oral Presentations
Monday, October 29, 12:15 p.m. - 1:30 p.m.
Marriott - Mardi Gras D (3rd Floor)

CHAIR

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

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

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

12:15 p.m.

LB-5200

Zika virus circulation and microcephaly in Angola

Sarah C. Hill¹, Jocelyne Vasconcelos², Zoraima Neto², Domingos Jandondo², Renato de Aguiar³, Joilson Xavier⁴, Julien Thézé¹, Marinela Mirandela², Cruz Sebastião², Ana Luísa Cândido², Filipa Vaz², Joana Afonso², Nuno R. Faria¹
¹*University of Oxford, Oxford, United Kingdom,*
²*Instituto Nacional de Investigação em Saúde, Luanda, Angola,* ³*Instituto de Biologia, Rio de Janeiro, Brazil,* ⁴*Instituto Oswaldo Cruz, Rio de Janeiro, Brazil*

12:25 p.m.

LB-5201

Outbreak of Nipah Virus Disease in Kerala, India, 2018

Govindakarnavar Arunkumar¹, Jazeel Abdulmajeed¹, Sushama Aswathyraj¹, Devadiga Santhosha¹, Jayaram Anup¹, Nittur Sudheesh¹, Jagadeesh Anitha¹, S. Robin¹, Sasidharanpillai Sabeeena¹, Mohammed Shakir¹, A S Anoop Kumar², Chandni Radhakrishnan³, K G Sajeeth Kumar³, Vasudevan Jayasree⁴, K J Reena⁵, R L Sarita⁵
¹*Manipal Academy of Higher Education, UDUPI, Karnataka, India,* ²*Baby Memorial Hospital, Kozhikode, India,* ³*Government Medical College, Kozhikode, India,* ⁴*Directorate of Health Services, Government of Kerala, Kozhikode, India,* ⁵*Directorate of Health Services, Government of Kerala, Thiruvananthapuram, India*

12:35 p.m.

LB-5202

Rift Valley Fever Outbreak in Kenya, 2018

Hassan Abdala¹, Fred Andayi², Jack Omollo¹, Elizabeth Oele¹, Maurice Omondi¹, Albert Ngonga¹, Ali Noor¹, Mathew Mutiuria¹, Dominic Wamamba¹, Mark Obonyo¹, Jane Githuku¹, Waqo Boru¹, Abduba Liban³, Victor Ofula⁴, Mathew Muturi⁵, Abdikadir Issack⁶, Adam Hassan⁶, Solomon Gikundi⁷, Timothy Nzomo⁷, Tura Galgalo², Marc-Alain Widdowson², Kevin De Cock², Sara Lowther², Zeinab Gura¹, Peninah Munyuwa²

¹*Field Epidemiology and Laboratory Training Program, Kenya, Nairobi, Kenya,* ²*Centre for Disease Control and Prevention, Kenya, Nairobi, Kenya,* ³*Marsabit County Department of Health, Kenya, Marsabit, Kenya,* ⁴*Kenya Medical Research Institute, Nairobi, Kenya,* ⁵*Kenya Zoonotic Disease Unit, Nairobi, Kenya,* ⁶*Wajir County Department of Health, Kenya, Wajir, Kenya,* ⁷*National Public Health Laboratory, Kenya, Nairobi, Kenya*

12:45 p.m.

LB-5203

One-Year Follow-up of Fractional-Dose Yellow Fever Vaccine Recipients - Kinshasa, Democratic Republic of Congo (DRC), 2017

Rebecca M. Casey¹, Jennifer B. Harris¹, Steve Ahuka-Mundeke², Pierre M. Nsele², Gabriel M. Kizito², Meredith G. Dixon¹, Janeen Laven¹, Abdou S. Gueye¹, Raimi Ewetola¹, Terri B. Hyde¹, J. Erin Staples¹, Jean-Jacques Muyembe-Tamfum²
¹*Centers for Disease Control and Prevention, Atlanta, GA, United States,* ²*Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo*

Late-Breaker Abstract Session 23
Late-Breakers in Clinical and Applied Sciences
Oral Presentations
Monday, October 29, 12:15 p.m. - 1:30 p.m.
Marriott - Mardi Gras D (3rd Floor)

12:55 p.m.

LB-5204

Efficacy of double and triple drug treatment for *Brugia timori* infection in Indonesia

Yenny Djuardi¹, Michael Christian¹, Elisa Iskander¹, Adriani Lomiga², Gary J. Weil³, Peter U. Fischer³, Taniawati Supali¹

¹Department of Parasitology, Universitas Indonesia, Jakarta, Indonesia, ²Universitas Nusa Cendana, Kupang, Indonesia, ³Washington University School of Medicine, St. Louis, MO, United States

1:05 p.m.

LB-5205

The resistance of Azithromycin, administered in combination with seasonal malaria chemoprevention among children under five years old, was not decreased one year after the intervention

Jean Bosco Ouedraogo¹, Soumeya Hema-Ouangraoua², Issaka Zongo¹, Irene Kuepfer³, Matthew Cairn³, Frederic Nikiema¹, Serge R. Yerbanga¹, Halidou Tinto¹, Daniel Chandramohan³, Brian Greenwood³

¹IRSS, Bobo-Dioulasso, Burkina Faso, ²Centre Muraz, Bobo-Dioulasso, Burkina Faso, ³London School of Hygiene and Tropical Medicine, London, United Kingdom

1:15 p.m.

LB-5206

Safety and Immunogenicity of a Single-Dose Live Oral Cholera Vaccine in Children and Adolescents

Sean R. Bennett¹, James McCarty², Lisa Bedell¹, Michael Lock¹, Douglas J. Haney¹, Cynthia Strout³, Marc Gurwith¹, Lisa Danzig¹

¹PaxVax, Inc., Redwood City, CA, United States, ²Stanford University School of Medicine, Stanford, CA, United States, ³Coastal Carolina Research Center, Mt Pleasant, SC, United States

Late-Breaker Abstract Session 78**Late-Breakers in Basic Sciences**

Tuesday, October 30, 12:15 p.m. - 1:30 p.m.
Marriott - Mardi Gras D (3rd Floor)

CHAIR

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

Nicholas A. Bergren
Colorado State University, Fort Collins, CO, United States

12:15 p.m.**LB-5396****The mosquito mycobiome is diverse and distinct from its larval environment**

Patil Tawidian, Kristin Michel, Ari Jumpponen
Kansas State University, Manhattan, KS, United States

12:25 p.m.**LB-5397****A novel insecticide developed from a non-live preparation of the bacterium *Chromobacterium sp. Panama (Csp_P)* effectively kills *Aedes aegypti* zlarvae**

Eric Caragata, Luisa Otero, George Dimopoulos
Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

12:35 p.m.**LB-5398****The effect of pathogens, genetics and human odour on attractiveness to mosquitoes**

James G. Logan¹, Ailie Robinson¹, Julien Martinez¹, Katherine Oke¹, Anette Busula², Richard Mukabana³, John Pickett⁴, John Armour⁵, Steve Lindsay⁶, Willem Takken⁷, Jetske de Boer⁷

¹*London School of Hygiene & Trop. Med. and ARCTEC, London, United Kingdom*, ²*Kaimosi Friends University College, Kenya, Kenya*, ³*School of Biological Sciences, University of Nairobi, Nairobi, Kenya*, ⁴*Cardiff University, Cardiff, United Kingdom*, ⁵*University of Nottingham, London, United Kingdom*, ⁶*Durham University, Durham, United Kingdom*, ⁷*Laboratory of Entomology, Wageningen University, Wageningen, Netherlands*

12:45 p.m.**LB-5399****Ubiquitous, nonlinear effects of temperature on vector-borne disease: malaria, dengue, Zika, West Nile, and beyond**

Erin A. Mordecai¹, Leah R. Johnson², Jason R. Rohr³, Sadie J. Ryan⁴, Van Savage⁵, Marta S. Shocket¹, Anna Stewart Ibarra⁶, Matthew B. Thomas⁷
¹*Stanford University, Stanford, CA, United States*, ²*Virginia Polytechnic Institute and State University, Blacksburg, VA, United States*, ³*University of South Florida, Tampa, FL, United States*, ⁴*University of Florida, Gainesville, FL, United States*, ⁵*University of California Los Angeles, Los Angeles, CA, United States*, ⁶*State University of New York Upstate Medical University, Syracuse, NY, United States*, ⁷*Pennsylvania State University, State College, PA, United States*

12:55 p.m.**LB-5400****Downregulation of female *doublesex* expression by RNA interference reduces numbers and fitness of *Anopheles gambiae* adult females**

Mabel L. Taracena¹, Catherine Hunt¹, Mark Q. Benedict¹, Pamela Pennington², Ellen M. Dotson³
¹*CDC Foundation, Atlanta, GA, United States*, ²*Universidad del Valle de Guatemala, Guatemala City, Guatemala*, ³*CDC, Atlanta, GA, United States*

Late-Breaker Abstract Session 78

Late-Breakers in Basic Sciences

*Tuesday, October 30, 12:15 p.m. - 1:30 p.m.
Marriott - Mardi Gras D (3rd Floor)*

1:05 p.m.

LB-5401

**Comparative 3D Genome Organization in
Apicomplexan Parasites link genome
organization and gene expression in more
virulent pathogens**

Evelien M. Bunnik¹, Aarthi Venkat², Jianlin Shao², Kathryn McGovern³, Gayani Batugedara³, Jacques Prudhomme³, Stacey Lapp⁴, Chiara Andolina⁵, Leila S. Ross⁶, Photini Sinnis⁷, Francois Nosten⁵, David A. Fidock⁶, Emma H. Wilson³, Rita Tewari⁸, Mary R. Galinski⁴, Choukri Ben Mamoun⁹, Ferhat Ay², **Karine G. Le Roch**³

¹The University of Texas Health Science Center, San Antonio, TX, United States, ²La Jolla Institute for Allergy & Immunology, La Jolla, CA, United States, ³UNIVERSITY OF CALIFORNIA, Riverside, CA, United States, ⁴Emory University, Atlanta, GA, United States, ⁵Mahidol-Oxford Tropical Medicine Research Unit, Mae Sot, Thailand, ⁶Columbia University Medical Center, New York, NY, United States, ⁷Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁸University of Nottingham, Nottingham, United Kingdom, ⁹Yale School of Medicine, Connecticut, CT, United States

1:15 p.m.

LB-5402

SmNPP5 - a key schistosome tegumental enzyme - cleaves host purinergic signaling nucleotides to potentially exert both anti-thrombotic and anti-inflammatory effects

Catherine S. Nation, Akram A. Da'darah, Patrick J. Skelly

Cummings School of Veterinary Medicine at Tufts University, North Grafton, MA, United States

Late-Breaker Abstract Session 134

Late-Breakers in Malaria

Wednesday, October 31, 12:15 p.m. - 1:30 p.m.
Marriott - Mardi Gras D (3rd Floor)

CHAIR

Urszula Krzych

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

12:15 p.m.

LB-5596

Transcriptional signatures identified by systems biology predict protection after whole *Plasmodium falciparum* sporozoite and RTS,S/AS01E immunization

Gemma Moncunill¹, Anja Scholzen², Maximillian Mpina³, Augusto J. Nhabomba⁴, Aurore Bouyoukou Hounkpatin⁵, Lourdes Osaba⁶, Raquel Valls⁷, Joseph J. Campo⁸, Héctor Sanz⁸, Chenjerai Jairoce⁴, Nana Aba Williams⁹, Erica M. Pasini¹⁰, David Arteta⁶, Joan Maynou⁶, Lourdes Palacios¹¹, Miquel Duran-Frigola¹², John J. Aponte¹³, Clemens H. M. Kocken¹⁴, Selidji Todagbe Agnandji¹⁵, José Manuel Mas⁷, Benjamin Mordmüller¹⁶, Claudia Daubenberger¹⁷, Robert W. Sauerwein², Carlota Dobaño¹⁸

¹ISGlobal, Barcelona, Spain, ²Department of Medical Microbiology, Radboud University Medical Center, Nijmegen, Netherlands, ³Ifakara Health Institute, Bagamoyo Research and Training Centre. P.O. Box 74 Bagamoyo, Tanzania. Swiss Tropical and Public Health Institute, Socinstrasse 57, 4002 Basel, Switzerland. University of Basel, Petersplatz 1, 4001 Basel, Switzerland., Bagamoyo, United Republic of Tanzania, ⁴Centro de Investigação em Saúde de Manhiça (CISM), Rua 12, Cambeve, Vila de Manhiça, CP 1929, Maputo, Mozambique, ⁵Centre de Recherches Médicales de Lambaréné (CERMEL), Lambaréné, Gabon, ⁶Progenika Biopharma. A Grifols Company, S.A., Derio, Vizcaya, Spain, ⁷Anaxomics Biotech, S.L, Barcelona, Spain, ⁸ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Catalonia, Spain., Barcelona, Spain, ⁹ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Spain, ¹⁰Department of Parasitology, Biomedical Primate Research Centre, Rijswijk, Netherlands, ¹¹Progenika Biopharma, S.A., Derio, Vizcaya, Spain, ¹²Institute for Research in Biomedicine (IRB Barcelona). The Barcelona Institute of Science and Technology, Barcelona, Spain, ¹³ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Catalonia, Spain, Barcelona, Spain, ¹⁴Department of Parasitology, Biomedical Primate Research Centre, Rijswijk, Netherlands, Rijswijk, Netherlands, ¹⁵Centre de Recherches Médicales de Lambaréné (CERMEL), BP 242, Lambaréné, Gabon. Institute of Tropical Medicine and German Center for Infection Research, University of Tübingen, Wilhelmstraße 27 D-72074,

Lambaréné, Gabon, ¹⁶Institute of Tropical Medicine and German Center for Infection Research, University of Tübingen, Wilhelmstraße 27 D-72074, Tübingen, Germany, ¹⁷Swiss Tropical and Public Health Institute, Socinstrasse 57, 4002 Basel, Switzerland. University of Basel, Petersplatz 1, 4001, Basel, Switzerland, ¹⁸ISGlobal, Hospital Clínic - Universitat de Barcelona, Barcelona, Catalonia, Spain. Centro de Investigação em Saúde de Manhiça (CISM), Rua 12, Cambeve, Vila de Manhiça, CP 1929, Maputo, Mozambique., Barcelona, Spain

12:25 p.m.

LB-5597

A Phase IIa, Open-label, CHMI Study to Evaluate the Efficacy, Immunogenicity and Safety of RTS,S/AS01E and RTS,S/AS01B Administered at Various Dosages and Regimens in Healthy Malaria-Naïve Adults

James E. Moon, on behalf of the RTS,S Working Group
Walter Reed Army Institute of Research, Silver Spring, MD, United States

12:35 p.m.

LB-5598

Safety and causal prophylactic efficacy of KAF156 in a controlled human malaria infection model

James G. Kublin¹, Daniel Stein², Sean Murphy³, Jay Prakash Jain⁴, Janine Maenza¹, Kelly Shipman¹, Budhaditya Goswami⁵, Danielle Spera², Rachel Soon², Rong Zhao⁶, Joel Loeng⁷, Peter Pertel⁸, William Prince⁸

¹Fred Hutchinson Cancer Research Center, Seattle, WA, United States, ²Novartis, East Hanover, NJ, United States, ³University of Washington, Seattle, WA, United States, ⁴Novartis Institutes of Tropical Diseases, Emeryville, CA, United States, ⁵Novartis Healthcare, Hyderabad, India, ⁶Highland Capital, Shanghai, China, ⁷Drug Discovery and Development, Agency for Science, Technology and Research, Singapore, Singapore, ⁸Novartis Institutes of Biomedical Research, Cambridge, MA, United States

Late-Breaker Abstract Session 134

Late-Breakers in Malaria

*Wednesday, October 31, 12:15 p.m. - 1:30 p.m.
Marriott - Mardi Gras D (3rd Floor)*

12:45 p.m.

LB-5599

Modulation of triple artemisinin-based combination therapy pharmacodynamics by *Plasmodium falciparum* genotype

Richard T. Eastman¹, Megan R. Ansbro¹, Zina Itkin¹, Lu Chen¹, Chanaki Amaratunga¹, Olivo Miotto², Tyler Peryea¹, Juliana M. Sa¹, Rob W. van der Pluijm², Thomas E. Wellem¹, Craig J. Thomas¹
¹National Institutes of Health, Rockville, MD, United States, ²Mahidol Oxford Tropical Medicine Research Unit, Bangkok, Thailand

12:55 p.m.

LB-5600

A Quantitative Assessment of the Spatial Decision Support System as a Novel Surveillance system in Vietnam

Nicholas J. Martin¹, Kinley Wangdi², Sara E. Canavati³, Thang D. Ngo⁴, Thu M. Nguyen³, Long K. Tran³, Duong T. Tran⁴, Archie CA Clements²
¹United States Naval Medical Research Unit TWO, Singapore, Singapore, ²Research School of Population Health, Australian National University, Canberra, Australia, ³Vysnova Partners, Inc., Bethesda, MD, United States, ⁴The National Institute of Malariology, Parasitology, and Entomology, Hanoi, Vietnam

1:05 p.m.

LB-5601

Characterization of the impact of the mosquito complement-like response on shaping the transmitted malaria parasite populations

Maria Giorgalli, Chiamaka Valerie Ukegbu, Dina Vlachou, George K. Christophides
Imperial College London, London, United Kingdom

1:15 p.m.

LB-5602

Resolving within-host malaria parasite diversity using single cell sequencing

Ian H. Cheeseman¹, Standwell C. Nkhoma², Simon G. Trevino¹, Karla Gorena³, Shalini Nair¹, Stanley Khoswe², Catherine Jett¹, Roy Garcia¹, Benjamin Daniel³, Aliou Dia¹, Dianne Terlouw², Stephen A. Ward⁴, Timothy J. Anderson¹

¹Texas Biomedical Research Institute, San Antonio, TX, United States, ²Malawi-Liverpool-Wellcome Trust Clinical Research Programme, Blantyre, Malawi,

³University of Texas Health Science Center San Antonio, San Antonio, TX, United States, ⁴Liverpool School of Tropical Medicine, Liverpool, United Kingdom

Poster Session 22

Poster Session A

Late Breakers in Basic Sciences

*Monday, October 29, Noon - 1:45 p.m.
Marriott - Grand Ballroom (3rd Floor)*

Arthropods/Entomology	#LB-5000 through LB-5014
Cestodes	#LB-5015 through LB-5018
Helminths - Nematodes.....	#LB-5019 through LB-5027
Malaria	#LB-5028 through LB-5059
One Health: Interface of Human Health/Animal Diseases	#LB-5060 through LB-5071
Viruses	#LB-5072 through LB-5081

LB-5000

Molecular determinants affecting vector competence of Zika and West Nile Viruses

Yee Tsuey Ong, Kimberly M. Anderson, Juliette Dean, Karen L. Boroughs, Janae L. Stovall, Aaron Brault, Claire Y.-H. Huang
Arboviral Diseases Branch, Division of Vector-Borne Diseases, Centers for Disease Control and Prevention, Fort Collins, CO, United States

LB-5001

Insecticide resistance status of *Aedes aegypti* mosquitoes in Bangladesh

Mohammad Shafiqul Alam¹, Hasan Mohammad Al-Amin¹, Seth Robert Irish², Fatema Tuj Johora¹, Lucrecia Vizcaino², Audrey Lenhart²
¹*icddr,b, Dhaka, Bangladesh*, ²*Centers for Disease Control and Prevention, Atlanta, GA, United States*

LB-5002

Investigation of potential causes of febrile illness in Khon Kaen Province, Thailand with focus on scrub typhus, rickettsioses, malaria infection and dengue virus infection

WARANYA BUADOK
USAMD-AFRIMS, Bangkok, Thailand

LB-5003

A preliminary statewide survey of the tick fauna and associated pathogens in Alabama

Raphael R. Wood, Jonathan Rayner, John McCreadie
University of South Alabama, Mobile, AL, United States

LB-5004

Can a 3D printed mosquito light trap be a cost-effective sampling tool?

Tomonori Hoshi¹, Shigeharu Sato², Victor A. Brugman¹, Thomas Ant¹, Gaku Masuda³, Bumpei Tojo³, Satoshi Kaneko⁴, Kazuhiko Moji³, James G. Logan¹

¹*London School of Hygiene & Tropical Medicine, London, United Kingdom*, ²*Universiti Malaysia Sabah Faculty of Medicine and Health Sciences, Sabah, Malaysia*, ³*Nagasaki University School of Tropical Medicine and Global Health, Nagasaki, Japan*, ⁴*Nagasaki University Institute of Tropical Medicine, Nagasaki, Japan*

LB-5005

Long-read and Hi-C- based *de novo* assembly of the *Aedes albopictus* genome

Jeffrey R. Powell¹, Sergey Koren², Arang Rhie², Jay Ghurye³, Spencer J. Johnston⁴, Jake Tu⁵, Maria Sharakova⁵, Adam M. Phillippy², **Mariangela Bonizzoni**⁶

¹*Yale University, New Haven, CT, United States*, ²*National Institutes of Health, Bethesda, MD, United States*, ³*National Human Genome Research Institute and University of Maryland, Bethesda, MD, United States*, ⁴*Texas A&M University, College Station, TX, United States*, ⁵*Virginia Tech, Blacksburg, VA, United States*, ⁶*University of Pavia, Pavia, Italy*

Poster Session A
Late Breakers in Basic Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5006

Detection of *Rickettsia spp* and *Coxiella burnetti* in ticks collected in Northern and Southern Ghana

JANICE A. TAGOE¹, Shirley Nimo-Painstil², Mba Mosore¹, Seth O. Addo¹, Clara Yeboah¹, Bright Agbodzie¹, Eric Behene¹, Danielle Ladzekpo¹, Charlotte A. Addae¹, Courage Dafeamekpor³, Allen L. Richards⁴, Jeff Koehler⁵, Randal Schoepp⁵, Anne Fox², Andrew Letizia², Joseph W. W. Diclaro II⁶, Samuel Dadzie¹

¹Noguchi Memorial Institute for Medical Research, Greater Accra, Ghana, ²Naval Medical Research Unit No3, Ghana Detachment, Greater Accra, Ghana, ³Ghana Armed Forces, Greater Accra, Ghana, ⁴Naval Medical Research Center, Silver Spring, MD, United States, ⁵United States Army Medical Research Institute of Infectious Diseases, Frederick, MD, United States, ⁶Navy Entomology Center of Excellence, Jacksonville, FL, United States

LB-5007

Kinetics of dengue virus infection in *Aedes aegypti*

Mario Novelo Canto

The Pennsylvania State University, State College, PA, United States

LB-5008

Genomic and chromosomal differentiation between *Culex pipiens* forms *pipiens* and *molestus*

Reem A. Masri¹, Andrey A. Yurchenko², Megan L. Fritz³, Maria V. Sharakhova¹
¹Virginia Tech, Blacksburg, VA, United States,
²Gustave Roussy Cancer Center, Paris, France,
³University of Maryland, Maryland, MD, United States

LB-5009

Eave ribbons treated with the spatial repellents, transfluthrin, can effectively protect against indoor-biting and outdoor-biting malaria mosquitoes

Arnold S. Mmbando, Halfan S. Ngowo, Alex J. Limwagu, Masoud Kilangongono, Khamis Kifungo, Fredros O. Okumu
Ifakara Health Institute, Morogoro, United Republic of Tanzania

LB-5010

Genomic and symbiotic analyses of *Asaia* sp. W12 isolated from the gut of the mosquito *Anopheles stephensi*

Shicheng Chen, **Edward D. Walker**
Michigan State University, East Lansing, MI, United States

LB-5011

Mitochondrial-nuclear interactions in *Aedes aegypti* and their effects on *Wolbachia*

Heather A. Flores, Jyotika Taneja De Bruyne, Silk Lin, Etienne C. Pacidonio, Scott L. O'Neill, Cameron P. Simmons
Monash University, Clayton, Australia

LB-5012

How house design affects malaria transmission and indoor climate: an experimental study in rural Gambia

Ebrima Jatta¹, Musa Jawara², John Bradley³, David Jeffries², Balla Kandeh⁴, Jakob Knudsen⁵, Anne Wilson¹, Margaret Pinder¹, Umberto D'Alessandro²
¹Durham University, Durham City, United Kingdom,
²MRC Unit The Gambia at LSHTM, Fajara, Gambia,
³LSHTM, London, United Kingdom, ⁴NMCP, Banjul, Gambia, ⁵KADK, Copenhagen, Denmark

LB-5013

Abundance Pattern of *Anopheles* Mosquitoes Species in three Environments in Northwestern Argentina

María Julia Dantur-Juri¹, Gabriela Flores¹, Liliana Galindo², Mirta Santana², Edecio Villarroel-Martínez¹, Mario Zaidenberg³
¹Unidad Ejecutora Lillo (CONICET-Fundación Miguel Lillo), San Miguel de Tucumán- Tucumán, Argentina,
²Facultad de Medicina, Universidad Nacional de Tucumán, San Miguel de Tucumán- Tucumán, Argentina, ³Coordinación Nacional de Control de Vectores, Ministerio de Salud de la Nación, San Miguel de Tucumán- Tucumán, Argentina

Poster Session A
Late Breakers in Basic Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5014

Larval Habitats of *Anopheles* Species in Peri-Rural and Rural Environments on the Malaria Endemic Area of Northwest Argentina

María Julia Dantur-Juri¹, Gabriela Flores¹, Liliana Galindo², Mirta Santana³, Edecio Villaruel-Martínez¹, Mario Zaidenberg⁴

¹Unidad Ejecutora Lillo (CONICET-Fundación Miguel Lillo), San Miguel de Tucumán- Tucumán, Argentina,

²Cátedra de Bioestadística, Facultad de Medicina, Universidad Nacional de Tucumán, San Miguel de Tucumán- Tucumán, Argentina, ³Facultad de Medicina, Universidad Nacional de Tucumán, San Miguel de Tucumán- Tucumán, Argentina,

⁴Coordinación Nacional de Control de Vectores, Ministerio de Salud de la Nación, San Miguel de Tucumán- Tucumán, Argentina

LB-5015

Characterization of the Calcification Process of Brain Cysts in Pigs with Neurocysticercosis

Javier A. Bustos¹, Laura Baquedano¹, Gianfranco Arroyo¹, Juan F. Calcina², Ana Vargas-Calla², Castillo Erick³, Juan Chacaltana³, Armando E. Gonzalez², Robert H. Gilman⁴, Hector H. Garcia¹

¹Universidad Peruana Cayetano Heredia, Lima, Peru,

²Universidad Nacional Mayor de San Marcos, Lima, Peru, ³Instituto Nacional de Ciencias Neurologicas, Lima, Peru, ⁴Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

LB-5016

Genomic phylogeny of human- and non-human-infective tapeworms in genus *Taenia*

Christina M. Bergey¹, Stephen M. Johnson¹, Abby Koenig¹, Alexis P. Sullivan¹, Belgees Boufana², Philip S. Craig³, Yesenia Castillo⁴, Siddhartha Mahanty⁵, Héctor H. García⁴, George Perry¹

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LB-5017

A novel experimental pig model for neurocysticercosis via carotid *Taenia solium* oncosphere infection: Determination of the minimal infective dose and histopathological characterization

Gianfranco Arroyo¹, Javier A. Bustos¹, Laura Baquedano¹, Juan F. Calcina², Ana M. Vargas-Calla², Nancy Chile¹, Juan Chacaltana³, Manuela Verastegui¹, Robert H. Gilman⁴, Armando E. Gonzalez², Hector H. Garcia¹

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LB-5018

Design of a recombinant protein expression against classical swine fever virus and *Taenia solium* using *Salmonella enteritidis* as vector

Katherine Calderon¹, Manolo Fernandez¹, Eloy Gonzalez², Eliana Icochea², Teresa Lopez-Urbina², Ana Vargas-Calla², Luis A. Gomez-Puerta², Armando E. Gonzalez²

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LB-5019

Antigenic cross-reactivity between *Schistosoma mansoni* and the house dust mite *Dermatophagoides farinae*: a role for cross-reactive carbohydrate determinants (CCDs) and implications for the hygiene hypothesis

Fatou Gai

University of Nottingham, Nottingham, United Kingdom

LB-5020

Prevalence of anisakid nematode larvae in food fishes in Lima, Peru

Ana Vargas-Calla¹, Luis A. Gomez-Puerta¹, Claudio R. Zuñiga¹, Nathaly M. Gil¹, Maria T. Lopez-Urbina¹, Hector H. Garcia², Armando E. Gonzalez¹

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LB-5021

Initial results from the first international external quality assessment scheme (EQAS) for PCR-based detection of Soil Transmitted Helminths (STH) and *Schistosoma* in stool

Lisette van Lieshout

Representing the board of the Parasitology section of the Dutch Foundation for Quality Assessment in Medical Laboratories (SKML) and the international Helminth External Molecular Quality Assessment Scheme (HEMQAS) workgroup, Netherlands

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LB-5022

Pyruvate kinase as a potential anti-filarial target for filarial nematodes

Waleed Ali, Denis Voronin
New York Blood Center, New York, NY, United States

LB-5023

***Loa loamicrofilaremia* drives false positivity in skin snips: consequences for onchocerciasis monitoring and evaluation in *L. loa*-endemic areas**

Hugues Nana Djeunga¹, Joseph Kubofick², Floribert Fossuo-Thotchum¹, Sébastien Pion³, Cédric Chesnais³, Amy Klion², Charles Mackenzie⁴, Michel Boussinesq³, Thomas Nutman², Joseph Kamgno¹
¹Centre for Research on Filariasis and other Tropical Diseases (CRFIIMT), Yaoundé, Cameroon,
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LB-5024

Estimating soil-transmitted helminth prevalence through pooling: choosing and optimizing pooling protocol

James Truscott¹, Julia Dunn¹, Marina Papaikovou², Marleen Werkman¹, Fabian Schaer², Tim Littlewood², Judd Walson³, Roy Anderson¹
¹Imperial College London, London, United Kingdom, ²Natural History Museum, London, United Kingdom, ³University of Washington, Seattle, WA, United States

LB-5025

Investigating *Phortica variegata* distribution and behaviour in the UK: the potential for autochthonous transmission of *Thelazia callipaeda*

John Graham-Brown¹, Jennifer Palfreyman², Paul Gilmore³, Benjamin Makepeace¹, Diana J. Williams¹
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LB-5026

Porcine neurocysticercosis: effect of anti-inflammatory pretreatment on Treg and Th17

responses after anthelmintic-induced inflammation

Renzo Gutierrez-Loli, David Castañeda, Ayme Yupari, Cristina Guerra-Giraldez
Universidad Peruana Cayetano Heredia, Lima, Peru

LB-5027

Effects of FDA-approved Antibiotics on *Brugia pahangi* and *Wolbachia* *in vitro* and *in vivo*

Emma Gunderson¹, Christina Bulman¹, Ian Vogel¹, Laura Chappel², KC Lim¹, Chelsea Fischer¹, Jiri Gut¹, Nancy Tricoche³, Denis Voronin³, Sara Lustigman³, William Sullivan², Judy Sakanari¹

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LB-5028

The Search for a Thermostable Rapid Diagnostic Test (RDT) Positive Control for Military and Clinical Trial Use in Malaria Endemic Countries

Patricia Lee, **Susan Leed**, Lisa Read, David Donkin, Margarita Vidal, Eric Kim, Sophia Kish, Richard Sciotti, Daniel Erwin, Jangwoo Lee, Scott Seronello, Chad Black, Mara Kreishman-Deitrick, Mark Hickman Walter Reed Army Institute of Research, Silver Spring, MD, United States

LB-5029

Re-evaluating the coverage indicator for Indoor Residual Spraying (IRS): Who are we truly protecting in malaria control and elimination?

Mercy Opiyo¹, Krijn Paaijmans²

¹ISGLOBAL, Barcelona, Spain, ²Arizona State University, Tempe, AZ, United States

LB-5030

CRISPR/Cas9-mediated gene knockout of *Plasmodium falciparum* DNA gyrase reveals its essentiality in blood-stage parasites apicoplast but no change in sensitivity to bacterial gyrase inhibitors

SooNee Tan, Devaraja G. Mudeppa, Pradipsinh K. Rathod
University of Washington, Seattle, WA, United States

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LB-5031

Indoor residual spraying in Sub-Saharan Africa; mapping trends of insecticide classes from 1997 to 2017

Julie-Anne A. Tangena¹, Anna Trett¹, Penny Hancock², Alison Reynolds¹, Catherine Moyes², Michael Coleman¹
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LB-5032

Phosphofructokinase, a key enzyme in glycolysis, is involved in resistance to antiplasmodial glycosides

Gillian M. Fisher¹, Simon A. Cobbold², Andrew Jezewski³, Emma Carpenter⁴, Megan Arnold¹, Tina S. Skinner-Adams¹, Marcus Lee⁴, Audrey Odom John³, Elizabeth Winzeler⁵, Malcolm McConville², Sally-Ann Poulsen¹, Katherine T. Andrews¹
¹Griffith University, Nathan, Australia, ²University of Melbourne, Melbourne, Australia, ³Washington School of Medicine, St Louis, MO, United States, ⁴Wellcome Sanger Institute, Cambridge, United Kingdom, ⁵University of California, San Diego, CA, United States

LB-5033

Analysis of reactive strategies for malaria control and elimination

Nakul Chitnis, Theresa Reiker, Thomas A. Smith
Swiss Tropical and Public Health Institute, Basel, Switzerland

LB-5034

Early Inhibition of Fatty Acid Synthesis Reduces Generation of Memory Precursor Effector T cells in Chronic Infection

Samad A. Ibitokou¹, Brian E. Dillon¹, Mala Sinha¹, Bartosz Szczesny¹, Añahi Delgadillo¹, Doaa Reda Abdelrahman¹, Csaba Szabo¹, Lutfi Abu-Elheiga², Craig Porter¹, Demidmaa Tuvdendorj¹, Robin Stephens¹
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LB-5035

Evaluating the efficacy of AMA1-RON2, RH5, RIPR and CyRPA antibody combinations in inhibiting growth of *P. falciparum*

Yvonne Azasi¹, Ababacar Diouf¹, Michael P. Fay², Kazutoyo Miura¹, Rebecca A. Dabbs³, Jing Jin³, Syed Y. Mian⁴, David L. Narum⁵, Carole A. Long¹, Deepak Gaur⁴, Simon J. Draper³, Louis H. Miller¹

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LB-5036

A single step PCR method for improved characterization of *P. falciparum* parasites with *hrp2* gene deletions

Sophie Jones, Michael Aidoo, Eldin Talundzic
Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5037

Transcriptomic signatures of severe malarial anemia in a comparative non-human primate model study

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

LB-5038

A sub-lethal temporary feeding interruption effect of pyrethroids could reduce the impact of pyrethroid resistant mosquitoes on malaria transmission

Joel Hellewell, Ellie Sherrard-Smith, Tom Churcher
Imperial College London, LONDON, United Kingdom

LB-5039

Plasmodium falciparum infected erythrocytes can bind to host receptor integrin aVb3 through DBL2 domain of PFL2665c PfEMP1 protein

Olga Chesnokov¹, Jordan Merritt¹, Sergey O. Tcherniuk¹, Neta Milman², **Andrew V. Oleinikov¹**

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LB-5040

Genome wide assessment of gene copy number and SNP variation in *Plasmodium vivax* isolates from Ethiopia

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⁴University of California at Irvine, Irvine, CA, United States, ⁵Jimma University, Jimma, Ethiopia, ⁶Jimma, Jimma, Ethiopia

LB-5041

Comprehensive analysis of antibody responses to full-length PfEMP1 domains

Eizo Takashima¹, Bernard N. Kanoi¹, Hikaru Nagaoka¹, Masayuki Morita¹, Michael T. White², Nirianne M. Palacpac³, Edward H. Ntege¹, Betty Balikagala¹, Adoke Yeka⁴, Thomas G. Egwang⁵, Toshihiro Horii³, Takafumi Tsuboi¹
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LB-5042

High-throughput RFLP assay for the identification of glycophorin B deletion variants

Dominic S. Amuzu¹, Kirk Rockett², Ellen Leffler³, Felix Ansah¹, Nicholas Amoako¹, Christina Hubbard², Kate Rowlands², Anna Jeffreys², Lucas Amenga-Etego¹, Dominic Kwiatkowski⁴, Gordon A. Awandare¹
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LB-5043

Multi-omics Approaches to Identify the Molecular Targets and Mode of Action of Quinoline Antimalarials in *Plasmodium falciparum*

Grennady Wirjanata, Ka Diam Go, Jerzy Michal Dziekan, Han Yu, Par Nordlund, Zbynek Bozdech
Nanyang Technological University, Singapore, Singapore

LB-5044

Antimalarial drug exposure triggers distinct cellular responses in drug sensitive versus resistant *Plasmodium falciparum* parasites

Sharareh Maleki, Sarah J. Reiling, **Petra Rohrbach**
Institute of Parasitology, McGill University, Ste. Anne de Bellevue, QC, Canada

LB-5045

A novel Duffy-binding like domain identified in an atypical VAR2CSA expressed by a maternal *Plasmodium falciparum* isolate

Justin Y. Doritchamou¹, Robert Morisson¹, Jose Ribeiro², Michal Fried¹, Patrick E. Duffy¹

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LB-5046

Understanding the impact of human movement and landuse on the resurgence of malaria in urban areas of Ghana. erstanding the impact of human movement and landuse on the resurgence of malaria in urban areas of Ghana

CHEIKH C. DIENG

UNC CHARLOTTE, CHARLOTTE, NC, United States

LB-5047

The *Plasmodium berghei abcg* gene is associated with oxidative stress and altered drug sensitivity

Emilee E. Colón-Lorenzo, Angélica de Jesús-Sosa, Ricardo González-Méndez, Adelfa E. Serrano
University of Puerto Rico-School of Medicine, San Juan, Puerto Rico

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LB-5048

Building the capacity of partner militaries malaria control programs in Africa

Samuel K. Dadzie¹, Joseph W. Diclaro², Maxwell A. Appawu¹, Abraham K. Anang¹, Jason Rice³, Thomas Gilbreath⁴, Edward Nyarko⁵, Edward Korsterman⁶
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LB-5049

Large-scale implementation of seasonal malaria chemoprevention (SMC) in far north Cameroon: The use of geographic information system (GIS) tracking in supply chain management (SCM)

Philippe Marien Tache¹, Patrick GAPARAYI¹, Dorothy Achu Fosah², Glenn Gimuh Muffih¹, Jean Pierre Kidwang², Wilfried Wenceslas Amougou Tobo¹, Sali Djelle², Alexis Tougordi³, Clerisse Lemke⁴, Cisse Badara⁵
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LB-5050

Elimination of Intravascular Thrombi Prevents Early Mortality and Reduces Gliosis in Hyper-inflammatory Experimental Cerebral Malaria

Kyle D. Wilson¹, Lorenzo F. Ochoa¹, Olivia D. Solomon¹, Rahul Pal¹, Sandra M. Cardona², Victor H. Carpio¹, Philip H. Keiser¹, Astrid E. Cardona², Gracie Vargas¹, **Robin Stephens**¹
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LB-5051

Rapid profiling of the intraerythrocytic developmental cycle in the malaria parasite *Plasmodium falciparum*

Aliou Dia, Catherine Jett, Marina McDew-White, Timothy J.C. Anderson, Ian H. Cheeseman

Department of Genetics - Texas Biomedical Research Institute, San Antonio, TX, United States

LB-5052

Realistic temperature fluctuations modify the relationship between *Plasmodium falciparum* gametocytemia and infections in mosquitoes in unexpected ways

Ash Pathak, Courtney Murdock
University of Georgia, Athens, GA, United States

LB-5054

RALP1 is localized to rhoptries in sporozoites and involved in infection of the mammalian liver

Minami Baba, Mina Fujii, Yuka Sugino, Motomi Torii, Tomoko Ishino
Ehime University, Toon, Japan

LB-5055

O- and C-glycosylation of *Plasmodium falciparum* thrombospondin repeats is essential for sexual development, transmission and virulence in humanized mice

Sash Lopaticki¹, Charlie Jennison¹, Nichollas Scott², Alan John¹, Annie Yang¹, Matthew O'Neill¹, Lachlan Whitehead¹, Norman Kneteman³, Ethan Goddard-Borger¹, **Justin Boddey**¹

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LB-5056

Performance of health facilities selected as "Centers of Excellence" (COEs) compared with non-COEs in select health zones supported by the President's Malaria Initiative in the Democratic Republic of the Congo

Johanna Karemere
MEASURE Evaluation, University of North Caroline at Chapel Hill and ICF, Chapell Hill, Democratic Republic of the Congo

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LB-5057

Developing a bioinformatics and data science training Program in Mali: Approach, perspective, and sustainability

JEFFREY G. SHAFFER¹, Mamadou Wele², Jian Li¹, Sudesh K. Srivastav¹, Donald J. Krogstad¹, Seydou O. Doumbia²

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LB-5058

Proguanil - old drug new tricks

Tina Skinner-Adams¹, Andrew Riches², Gillian Fisher¹, Oliver Hutt², Jeremy Burrows³, Jack Ryan², **Kathy Andrews¹**

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LB-5059

Limited differentiation among *P. vivax* populations from the Northwest and to the South Pacific Coast of Colombia: a malaria corridor?

M. Andreina Pacheco¹, Kristan A. Schneider², Nora Céspedes³, Sócrates Herrera³, Myriam Arévalo-Herrera³, Ananias A. Escalante¹

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LB-5060

Zika Virus Surveillance at the Human-Animal Interface in Brazil, Colombia, and Peru, 2017-2018

Stephanie J. Salyer¹, G. Porfirio², R. Dezengrini-Slhessarenko³, T.O. Morgado⁴, V. Contreras⁵, S.Y. Rondon Robayo⁶, T.P. Quevedo⁷, E. Hannon⁸, J.R. Head¹, H.M. Herrera², G. Sabino-Santos⁹, L.M.S. Maia³, H. Contreras⁵, C.M. Leon⁶, S.A. Jenkins¹⁰, M.B. Parsons¹, C.C. Netto¹¹, H.G. Dias¹², E.H. Miranda¹³, M. Atencia⁵, M.J. Hoyos Loaiza⁶, C.N. Mores¹⁰, A. Balish¹, S.M.B. Lima¹³, F.B. Santos¹², G. Arrieta⁵, A. Link¹⁴, A.M. Bispo de Filippis¹², L.T.M. Figueiredo⁹, A. Pauvolid-Corrêa¹², S. Mattar⁵, C. González⁶, M.C.

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LB-5061

Review and Assessment of Autochthonous Chagas Disease in the United States

Mary K. Lynn

University of South Carolina, Greenville, SC, United States

LB-5062

Red Meat Allergy after Tick Bites: A Meta-analysis of Cases in the United States

James H. Diaz

Louisiana State University Health Sciences Center, New Orleans, LA, United States

LB-5063

Detection of Zika virus in Brazilian neotropical non-human primates: urban transmission and experimental infection

Ana Carolina B. Terzian¹, Nathalia Zini¹, Lívia Sacchetto², Rebeca F. Rocha², Maisa C. Parra¹, Ana Carolina F. Dias², Natalia C. Fernandes³, Josué Díaz-Delgado³, Vivian V. Costa², Leila S. Ullmann⁴, João P. Araújo Jr⁴, Betânia P. Drumond², Nikos Vasilakis⁵, Mauro Teixeira², **Maurício L. Nogueira¹**

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LB-5064

Rift Valley Fever Outbreak in East Africa, 2018: Signature of Climate Extremes

Assaf Anyamba¹, Radina Soebiyanto¹, Jennifer L. Small², Kenneth J. Linthicum³, Brett M. Forshey⁴, Christine F. Toolin⁴, Wassila M. Thiaw⁵, Jean-Paul Chretien⁶, Compton J. Tucker⁷
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LB-5065

Landscape and zoonotic malaria risks, a cross sectional survey in Northern Sabah, Malaysia

Kimberly M. Fornace¹, Tommy R. Abidin², Lynn Grignard¹, Lou S. Herman¹, Tock H. Chua², Sylvia Daim², Timothy William³, Kevin Tetteh¹, Jon Cox¹, Chris J. Drakeley¹
¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Universiti Malaysia Sabah, Kota Kinabalu, Malaysia, ³Infectious Diseases Society Kota Kinabalu, Kota Kinabalu, Malaysia

LB-5066

Differential expression of exosomal microRNA let-7i-5p in individuals with sickle cell trait (HbAS), anemia (HbSS), and HbAA controls

Keri Harp¹, Felix Botchway², Yvonne-Del Adomakoh², Michael Wilson², Jonathan K. Stiles¹, Adel Driss¹
¹Morehouse School of Medicine, Atlanta, GA, United States, ²University of Ghana SOM, Accra, Ghana

LB-5067

Barriers to zoonotic disease prevention in communities that hunt bushmeat in West Africa

Sagan Friant¹, Jerry K. Jacka², Tony L. Goldberg³, Clement B. Alawa⁴, David Ogar⁵, Jessica M. Rothman⁶
¹Pennsylvania State University, University Park, PA, United States, ²University of Colorado - Boulder, Boulder, CO, United States, ³University of Wisconsin

- Madison, Madison, WI, United States, ⁴University of Abuja, Abuja, Nigeria, ⁵University of Calabar, Calabar, Nigeria, ⁶Hunter College of The City University of New York, New York, NY, United States

LB-5068

de novo sequencing of two vectors of scrub typhus, *Leptotrombidium deliense* and *L. scutellare*

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LB-5069

Historical perspective on the Epidemiology of *Trypanosoma cruzi* and human exposure for Chagas disease in California

ALBA R. VALDEZ-TAH¹, Carlos N. Ibarra-Cerdeña²
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LB-5070

Potential of Recombination site in *Leptospira interrogans* serovar Hardjo str. Norma genome delineated by Comparative Genomics

Maria R. Cosate¹, Joao P. Haddad², Jose M. Ortega², Tiago A. Mendes¹
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LB-5071

Cat sporotrichosis by more than one *Sporothrix brasiliensis* isolate: a possibility in hyperendemic areas?

Pâmella A. Macêdo-Sales¹, Lucieri O. Souza², Vivian S. Baptista¹, Anderson M. Rodrigues³, Leila Maria Lopes-Bezerra⁴, Elisabeth M. Rocha¹, Márcia R. Pinto¹, Ricardo Luiz D. Machado¹, Andre Luis S. Santos², **Andrea Regina S. Baptista¹**

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LB-5072

Seromonitoring MERS-CoV in camel population in Kazakhstan

Abylay R. Sansyzbai¹, Ian Mendenhall², Gavin Smith², Rashida A. Rystayeva¹, Raikhan K. Nisanova¹, Sergazy Sh. Nurabayev¹, Aslan A. Kerimbayev¹, Syrym K. Kopeyev¹, Elmira T. Tailakova¹, Zamira D. Omarova¹, **Mukhit B. Orynbayev¹**

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LB-5073

Potential effects of the recent Zika epidemic in Latin America on observed dengue incidence

Rebecca Borcherding¹, Angkana Huang¹, Stephanie Cinkovich¹, Diana Rojas¹, Gregory King¹, Silvio Martinez¹, Luis Mier-y-Teran Romero², Isabel Rodriguez-Barraquer³, Justin Lessler⁴, Derek Cummings¹

¹University of Florida, Gainesville, FL, United States, ²Biomedical Advanced Research and Development Authority, Washington D.C., DC, United States,

³University of California San Francisco, San Francisco, CA, United States, ⁴Johns Hopkins University, Baltimore, MD, United States

LB-5074

The AHEAD100 Program: Pre-pandemic therapeutics for microbial pathogens most likely to cause human outbreaks

James Crowe
Vanderbilt University Medical Center, Nashville, TN, United States

LB-5075

Development of a Semi-Quantitative Blockade-of-Binding ELISA to Evaluate Zika Virus Serostatus

Eduardo J. Nascimento, Matthew I. Bonaparte, Ping Luo, Timothy S. Vincent, James K. George, Germán Áñez, Fernando Noriega, Lingyi Zheng, James W. Huleatt
Sanofi Pasteur, Swiftwater, PA, United States

LB-5076

Investigation of Dengue Infection in Aceh, Indonesia: Public Health and Molecular Epidemiology

Harapan Harapan¹, Samsul Anwar², Aslam Bustaman³, Arsil Radiansyah³, Pradiba Angraini³, Riny Fasli³, Salwiyadi Salwiyadi³, Reza A. Bastian³, Ade Oktiviyyari³, Imaduddin Akmal³, Muhammad Iqbalamin³, Jamalul Adil³, Fenni Henrizal³, Darmayanti Darmayanti³, Rovy Pratama³, Abdul M. Setiawan⁴, Mudatsir Mudatsir³, Panji F. Hadisoemarto⁵, Mandira L. Dhimal⁶, Setia Pramana⁷, Ziv Shkedy⁸, Ulrich Kuch⁶, David A. Groneberg⁶, Meghnath Dhimal⁹, Ruth Müller⁶, Allison Imrie¹

¹School of Biomedical Sciences, University of Western Australia, Crawley, Australia, ²Department of Statistics, Faculty of Mathematics and Natural Sciences, Syiah Kuala University, Banda Aceh, Indonesia, ³Medical Research Unit, School of Medicine, Syiah Kuala University, Banda Aceh, Indonesia, ⁴Department of Microbiology, Medical Faculty, Maulana Malik Ibrahim State Islamic University, Malang, Indonesia, ⁵Department of Public Health, Faculty of Medicine, Padjadjaran University, Bandung, Indonesia, ⁶Institute of Occupational Medicine, Social Medicine and Environmental Medicine, Goethe University, Frankfurt am Main, Germany, ⁷Institute of Statistics, Jakarta, Indonesia, ⁸Center for Statistics, Hasselt University, Diepenbeek, Belgium, ⁹Nepal Health Research Council (NHRC), Ministry of Health Complex, Kathmandu, Nepal

LB-5077

Enhancement of protein secretion by modified alphavirus replicons

Jesse H. Erasmus, Jasmine Fuerte-Stone, Neal Van Hoeven, Rhea Coler
Infectious Disease Research Inst., Seattle, WA, United States

Poster Session A
Late Breakers in Basic Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5078

Development and Characterization of a Zaire Ebola (ZEBOV) specific IgM ELISA

Tanmaya Atre, Elke Bergmann-Leitner
The Walter Reed Army Institute of Research, Silver spring, MD, United States

LB-5079

Comparison of Formalin-inactivated and Psoralen-inactivated Dengue Vaccines in Mice

Appavu K. Sundaram¹, Daniel Ewing¹, Maria Blevins², Sandy Sink², Josef Lassan², Zhaodong Liang¹, Kanakatte Raviprakash¹, Maya Williams¹, John Sanders², Kevin Porter¹
¹*Naval Medical Research Center, Silver Spring, MD, United States*, ²*Wake Forest School of Medicine, Winston-Salem, NC, United States*

LB-5080

Bacterial-expressed ds-eGFP reduces infection rates in recombinant Sindbis-eGFP-infected *Aedes aegypti*

Corey L. Campbell¹, Konstantinos Lymeropoulos², Richard Sayre³, Kenneth Olson¹
¹*Colorado State University, Fort Collins, CO, United States*, ²*Little Fly Division, Pebble Labs USA Inc., Los Alamos, NM, United States*, ³*Pebble Labs USA Inc., Los Alamos, NM, United States*

LB-5081

Zika virus evolution during persistent infection in a prostate cell line model

Francesca D. Frentiu¹, Rhys Izuagbe¹, Daniela Loessner²
¹*Queensland University of Technology, Brisbane, Australia*, ²*Queen Mary University of London, London, United Kingdom*

Poster Session 22

Poster Session A

Late Breakers in Clinical and Applied Sciences

Monday, October 29, Noon - 1:45 p.m.

Marriott - Grand Ballroom (3rd Floor)

Arthropods/Entomology	#LB-5082 through LB-5089
Bacteriology and Diarrhea	#LB-5090 through LB-5100
Global Health.....	#LB-5101 through LB-5130
Integrated Control of Neglected Tropical Diseases	#LB-5131 through LB-5142
Malaria	#LB-5143 through LB-5180
Viruses	#LB-5181 through LB-5193
Malaria	#LB-5194 through LB-5199

LB-5082

EVALUATION OF VISUAL BLOOD MEAL DETECTION AMONG MALARIA VECTOR *ANOPHELES* SPECIES DURING ROUTINE ENTOMOLOGICAL SURVEILLANCE IN MANICALAND, ZIMBABWE

Robert N. Mudare

Africa University, Mutare, Zimbabwe

LB-5083

Mark, release, recapture of male *Aedes aegypti*: Estimation of movement, mating and population parameters for sterile male releases

Brendan Trewin

CSIRO, Brisbane, Australia

LB-5084

Population genetics and connectivity of *Aedes aegypti* along major transport corridors outside the major urban centre of south east Queensland, Australia

Brendan Trewin

CSIRO, Brisbane, Australia

LB-5085

Attractive targeted sugar baits ATSB: A new paradigm for the control of malaria parasite transmission in Africa

Mohamed M. Traore¹, Silas Majambere², Sekou F. Traore¹, Seydou Doumbia¹, Aboubakr S. Kone¹, Edita Revay³, Vasiliy Kravchenko⁴, John C. Beier⁵, Gunter C. Muller¹

¹*Malaria Research and Training Center, Bamako,*

Mali, ²Mosquito Consulting, Moss, Norway,

³Department of Anatomy and Cell Biology, Bruce Rappaport Faculty of Medicine, Technion, Haifa, Israel, ⁴Department of Zoology, George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv, Israel, ⁵Department of Public Health Sciences, University of Miami Miller School of Medicine, Miami, FL, United States

LB-5086

Relative reductions in *Aedes aegypti* DENV transmission potential, mediated by multiple *Wolbachia* strains (wMelCS, wAlbB, and wMel), after feeding on patient-derived blood meals

Lauren B. Carrington¹, Giang T. Nguyen¹, Nhu T. Vu¹, Trang T. Huynh¹, Van T. Huynh¹, Dui T. Le¹, Long T. Vo¹, Thuy V. Nguyen¹, Vi T. Tran¹, Bridget Wills¹, Cameron P. Simmons²

¹Oxford University Clinical Research Unit, Ho Chi Minh City, Vietnam, ²Monash University, Melbourne, Australia

LB-5087

Culicidae diversity in the Metropolitan Area and Southern of Puerto Rico

Juan C. Orengo¹, Emilee Colon-Lorenzo², Adelfa Serrano², Robert Rodriguez¹, Mariana Padilla¹, Alejandro Veintidos¹, Maria Gonzalez¹, Kayra Rosado¹, Vivian Green¹

¹Public Health Program, Ponce Health Sciences University, Ponce, PR, United States, ²University of Puerto Rico, San Juan, PR, United States

Poster Session A
Late Breakers in Clinical and Applied Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5088

Insecticide Resistance of Malaria Vectors Review in the Democratic Republic of the Congo

Thierry L. Bobanga¹, Solange L. Umesumbu²
¹*University of Kinshasa, KINSHASA, Democratic Republic of the Congo, ²National Malaria Control Program, KINSHASA, Democratic Republic of the Congo*

LB-5089

Phenotypic and genotypic resistance to commonly used insecticides in *Aedes aegypti* among four cities in southern Ecuador

Sadie J. Ryan¹, Marco Neira², **Stephanie J. Mundis**¹, Catherine A. Lippi¹, Efrain Beltrán-Ayala³, Alex Aguirre⁴, Tania Ordoñez⁵, Froilan Heras⁶, Anna M. Stewart-Ibarra⁷
¹*Quantitative Disease Ecology and Conservation (QDEC) Lab, Department of Geography, University of Florida, Gainesville, FL, United States, ²Center for Research on Health in Latin America, Exact and Natural Sciences Department, Pontificia Universidad Católica del Ecuador, Quito, Ecuador, ³Universidad Técnica de Machala, Machala, Ecuador, ⁴Center for Research on Health in Latin America (CISeAL), Exact and Natural Sciences Department, Pontificia Universidad Católica del Ecuador, Quito, Ecuador, ⁵Ministerio de Salud Pública, Machala, Ecuador, ⁶5Universidad Técnica de Machala, Machala, Ecuador, ⁷Institute for Global Health and Translational Science, Upstate Medical University, Syracuse, NY, United States*

LB-5090

Cardiac involvement in Enteric fever among travelers

Asaf Bibi, Eyal Nof, Eli Schwartz
The Chaim Sheba medical center, Ramat Gan, Israel

LB-5091

Molecular analysis of *Escherichia coli* clinical isolates harboring major virulence genes using RAPD-PCR

Ziad W. Jaradat
Jordan University of Science and Technology, Irbid, Jordan

LB-5092

Deployment of the mHealth Platform 'Outbreak Responder' for Cholera Outbreak Detection Across Bangladesh

Ashraful I. Khan¹, M. Salimuzzaman², Mazharul I. Zion¹, Hasnat Sujon², Robyn Ball³, Stace Maples³, Md Mahbubur Rashid¹, Azimuddin Ahmed¹, Jasmine A. Mack⁴, Matthew Gurka⁴, Chisti Jobayer¹, Shafiqul A. Sarker¹, Farhana Haque², Mahmudur Rahman², Firdausi Qadri¹, Meerjady S. Flora², **Eric J. Nelson**⁴
¹*International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ²Institute of Epidemiology, Disease Control and Research, Bangladesh Ministry of Health and Family Welfare, Dhaka, Bangladesh, ³Stanford University, Stanford, CA, United States, ⁴University of Florida, Gainesville, FL, United States*

LB-5093

Investigating the role of undernutrition and dietary habits as risk factors for leprosy in North Gondar Zone, Ethiopia

Puneet Anantharam¹, Lisa Emerson¹, Kassahun D. Bilcha¹, Abebe G. Bayih², Feleke M. Yehuala², Jessica K. Fairley¹, Annisa B. Tesfaye²
¹*Emory University, Atlanta, GA, United States, ²University of Gondar, Gondar, Ethiopia*

LB-5094

Population-based Prevalence of Antibodies to Chlamydia trachomatis in 4 Districts with varying levels of trachoma endemicity in Amhara, Ethiopia

Danaya Bethea¹, Tigist Astale², Eshetu Sata², Mulat Zerihun², Andrew W. Nute³, Aisha E.P. Stewart³, Demelash Gessese², Gedefaw Ayenew², Zebene Ayele², Berhanu Melak², Melsew Chanyalew⁴, Zerihun Tadesse², E. Kelly Callahan³, Diana L. Martin¹, Scott D. Nash³
¹*Centers for Disease Control and Prevention, Atlanta, GA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³The Carter Center, Atlanta, GA, United States, ⁴Amhara Regional Health Bureau, Bahir Dar, Ethiopia*

Poster Session A
Late Breakers in Clinical and Applied Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5095

Campylobacter spp: preliminary results from an ongoing birth cohort of an under recognized agent of infant diarrhea in Nicaragua

Samuel Vilchez¹, Filemon Bucardo¹, Yaoska Reyes¹, Roberto Herrera¹, Lester Gutierrez¹, Christian Toval¹, Margarita Paniagua¹, Nadja A. Vielot², Natalie Bowman², Luther A. Bartelt², Jonathan J. Juliano², Sylvia Becker-Dreps²

¹UNAN-Leon, Leon, Nicaragua, ²UNC-Chapel Hill, Chapel Hill, NC, United States

LB-5096

Refractory *Pseudomonas aeruginosa* Mediated Infections of a Lung Transplant Patient Successfully Treated with Intravenous Bacteriophage Cocktails

Christopher A. Duplessis¹, Robert T. Schooley²

¹Naval Medical Research Center, Silver Spring, MD, United States, ²Department of Medicine, University of California, San Diego, San Diego, CA, United States

LB-5097

The estimated cost-effectiveness of a *Shigella* vaccine in children under five in Ethiopia

Katherine L. Rosettie, Marcia Weaver, James Collins, Alec W. Deason, Michelle Park, Abraham D. Flaxman, Ibrahim Khalil, Kelly Compton, Paola Pedroza, Ali H. Mokdad
Institute for Health Metrics and Evaluation, Seattle, WA, United States

LB-5098

Feasibility of rapid diagnostic detection of *Cryptosporidium* and *Giardia* in children 6 to 24 months with diarrhea in outpatient clinics, Ndjamen Chad

Susan Shepherd
Alliance for International Medical Action, Hopewell, NJ, United States

LB-5099

Exploring poverty-related risk factors for leprosy transmission in a highly endemic area of Brazil: Focus on helminth co-infections and micronutrients

Cori L. Dennison¹, Lucia A. de O. Fraga², Lorena B. de Oliveira², Jose A. Ferreira³, Erica B. Magueta², Rosemary S. e Lima⁴, Bailey Conner¹, Maria Aparecida de F. Grossi⁵, Jessica K. Fairley⁶

¹Emory University Rollins School of Public Health, Atlanta, GA, United States, ²Universidade Federal de Juiz de Fora, Campus GV, Governador Valadares, Brazil, ³FASEH, Vespasiano, Brazil, ⁴Universidade Vale do Rio Doce, Governador Valadares, Brazil, ⁵Secretaria de Estado da Saúde de Minas Gerais, Belo Horizonte, Brazil, ⁶Emory University Rollins School of Medicine, Atlanta, GA, United States

LB-5100

Use of Dried Blood Spots for Serosurveillance of *Vibrio cholerae* O1 in Southern Vietnam

Tai T. Diep¹, Thuong Nguyen Van¹, Nhi Thi Ngoc Nguyen¹, Thu Anh Ngoc Nguyen¹, Nghia Van Truong², Son Thanh Vo², Ngan Dang Le², Tuyen Trung Ho³, Hien Thu Thi Vo³, Cole P. Anderson⁴, Andrew S. Azman⁵, Daniel T. Leung⁴

¹Pasteur Institute in Ho Chi Minh city, Ho Chi Minh, Vietnam, ²Provincial Preventive of Medicine Center, Tien Giang Province, Vietnam, ³Provincial Preventive of Medicine Center, Ben Tre Province, Vietnam,

⁴University of Utah, Salt Lake City, UT, United States, ⁵Johns Hopkins Bloomberg School of Public Health, Baltimore, GA, United States

LB-5101

Digitalizing Global Health's data infrastructure: A pilot design of WIRE system in Laos PDR

Tarek Abdelhamid Numair¹, Futoshi Nishimoto², Tiengkham Pongvongsa³, Daniel Harrel¹, Satoshi Kaneko⁴, Kazuhiko Moji²

¹Graduate School of Biomedical Sciences, Department of Eco-Epidemiology – Nagasaki University, Nagasaki, Japan, ²Graduate School of Tropical Medicine and Global Health (TMGH) – Nagasaki University, Nagasaki, Japan, ³Savannakhet Provincial Health Department, Savannakhet, Lao People's Democratic Republic, ⁴Department of Eco-Epidemiology, Institute of Tropical Medicine (NEKKEN) – Nagasaki University, Nagasaki, Japan

LB-5102

In Vitro Diagnostics (IVDs) Regulation, Quality, and Public Health

Daniel K. Bempong¹, Elliot P. Cowan², Paul O. Nkansah¹, Farouk A. Umaru¹

¹US Pharmacopeia, Rockville, MD, United States,

²Partners in Diagnostics, LLC, Rockville, MD, United States

Poster Session A
Late Breakers in Clinical and Applied Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5103

The limits of the verbal autopsy for cause of death determination

Clara Menendez¹, Llorenç Quintol¹, Paola Castillo², Carla Carrilho³, Mamudo R. Ismail³, Cesaltina Lorenzoni³, Fabiola Fernandes³, Juan Carlos Hurtado¹, Natalia Rakislova², Khatia Munguambe⁴, Maria Maixenchs¹, Eusebio Macete⁴, Inacio Mandomando⁴, Miguel J. Martinez², Pedro L. Alonso¹, Quique Bassat¹, Jaume Ordi²

¹*ISGlobal, Barcelona, Spain*, ²*Hospital Clínic - Universitat de Barcelona, Barcelona, Spain*, ³*Hospital Central de Maputo, Maputo, Mozambique*, ⁴*Centro de Investigação em Saúde de Manhiça - CISM, Maputo, Mozambique*

LB-5104

Online Ebola Simulation Training for Just in Time Education, Pilot Trial

Lacey MenkinSmith

MUSC, Charleston, SC, United States

LB-5105

Laboratory-Based Performance Evaluation of Multi-Micronutrient and Environmental Enteric Dysfunction Assessment Tool (MEEDAT)

Michael B. Arndt¹, Jason Cantera¹, David S. Boyle¹, Robert K. Choy²

¹*PATH, Seattle, WA, United States*, ²*PATH, San Francisco, CA, United States*

LB-5106

Iron ingots vs. enhanced standard of care with oral iron supplements: Assessing treatment efficacy and non-adherence after 12-month use among anemic pre-school aged children in Consuelo, DR

Nahara L. Saballos¹, Elizabeth D. Lowenthal², Maria Dunn², Ramona Cordero³, Ingrid Japa³, Antonio Matos³, Ryan M. Close²

¹*Perelman School of Medicine at the University of Pennsylvania, Philadelphia, PA, United States*

²*Children's Hospital of Philadelphia, Philadelphia, PA, United States*, ³*Niños Primeros en Salud, Consuelo, Dominican Republic*

LB-5107

What we did differently: the impact of the WHO Health Emergencies Programme in managing a

new outbreak of Ebola in the Democratic Republic of Congo

Ibrahima-Soce Fall¹, WHO Ebola Response Team²

¹*World Health Organisation, Brazzaville, Republic of the Congo*, ²*Republic of the Congo*

LB-5108

Global Trends in Preventative Chemotherapy for Soil-Transmitted Helminthiasis, with a focus on Pre-school age children

Michael Diaz, Alex Jones, Rubina Imtiaz

Children Without Worms, The Task Force for Global Health, Decatur, GA, United States

LB-5109

Country progress on preventative chemotherapy implementation and coverage among all children at risk of Soil-Transmitted Helminthiasis

Alex Jones, Michael Diaz, Rubina Imtiaz

Children Without Worms, The Task Force for Global Health, Decatur, GA, United States

LB-5110

Etiology of fever in Ugandan children: identification of microbial pathogens using metagenomic next-generation sequencing and IDseq, a platform for unbiased metagenomic analysis

Akshaya Ramesh¹, Sara Nakiely¹, Jennifer Hsu¹, Mary Kyohere², Oswald Byaruhanga², Charles de Bourcy³, Rebecca Egger³, Boris Dimitrov³, Yun-Fang Juan³, Jonathan Sheu³, James Wang³, Katrina Kalantar¹, Charles Langlier¹, Theodore Rue¹, Arthur Mpimbaza⁴, Michael Wilson¹, Philip Rosenthal¹, Joseph DeRisi¹

¹*University of California, San Francisco, San Francisco, CA, United States*, ²*Infectious Diseases Research Collaboration, Kampala, Uganda*, ³*Chan Zuckerberg Initiative, LLC, San Francisco, CA, United States*, ⁴*Makerere University, Kampala, Uganda*

LB-5111

Complications of silicone cosmetic procedures among medical tourists: a case series from the Bronx, NY

Crystal Zheng¹, Jeremy Quentzel², James Brust²

¹*Tulane University, New Orleans, LA, United States*, ²*Albert Einstein College of Medicine & Montefiore Medical Center, Bronx, NY, United States*

Poster Session A
Late Breakers in Clinical and Applied Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5112

Gut microbial community members indicative of *Campylobacter* burden and linear growth shortfalls in Peru

Saba Rouhani¹, Nicholas Griffin², Pablo P. Yori¹, Maribel P. Olortegui², Jeanette Gehrig², Michael J. Barratt², Margaret N. Kosek¹, Jeffrey I. Gordon²
¹*Johns Hopkins University, Baltimore, MD, United States*, ²*Washington University School of Medicine, St Louis, MO, United States*

LB-5113

Contagious kindness and pay-it-forward dual gonorrhea/chlamydia test uptake among men who have sex with men in China: A pragmatic, quasi-experimental study

Joseph Tucker

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

LB-5114

Clinico-Pathological Discrepancies in the Diagnosis of Causes of Death in Adults in Mozambique

Jaume Ordi¹, Paola Castillo², Alberto L. Garcia-Basteiro¹, Cinta Moraleda¹, Fabiola Fernandes³, Llorenç Quinto¹, Juan Carlos Hurtado¹, Emili Letang¹, Lucilia Lovane³, Dercio Jordao³, Rosa Bene³, Tacilta Nhampossa⁴, Mamudo R. Ismail³, Cesaltina Lorenzoni³, Natalia Rakislova², Ariadna Sanz¹, Anelsio Cossa⁴, Inacio Mandomando⁴, Maria Maixenchs¹, Khatia Munguambe⁴, Eusebio Macete⁴, Pedro L. Alonso¹, Quique Bassat¹, Miguel J. Martínez¹, Carla Carrilho³, Clara Menéndez¹
¹*ISGlobal, Barcelona, Spain*, ²*Hospital Clínic - Universitat de Barcelona, Barcelona, Spain*, ³*Hospital Central de Maputo, Maputo, Mozambique*, ⁴*Centro de Investigação em Saúde de Manhiça - CISM, Maputo, Mozambique*

LB-5115

Teen Pregnancy: Assessing Risk Factors for Unintended Pregnancy in Teenagers in Masiphumelele, Cape Town, South Africa

Monalisa A. Hassan, Julia Rushing, Candice McNeil
Wake Forest School of Medicine, Winston-Salem, NC, United States

LB-5116

Etiology of undifferentiated acute febrile illness in Kenya

Jennifer R. Verani¹, Eric Ng'eno², Elizabeth A. Hunsperger¹, Eric Osoro², Peninah Munyua¹, Doris Marwanga³, Godfrey Bigogo⁴, Derrick Amon³, Melvin Ochieng³, Barry Fields⁵, Victor Bandika⁶, Paul Etaw⁷, John Kiogora⁸, John W. Burton⁹, Lynda Makayotto¹⁰, Amwayi S. Anyangu¹⁰, Njenga M. Kariuki², Joel M. Montgomery⁵, Marc-Alain Widdowson¹

¹*Centers for Disease Control and Prevention, Nairobi, Kenya*, ²*Washington State University, Nairobi, Kenya*,

³*Kenya Medical Research Institute, Nairobi, Kenya*,

⁴*Kenya Medical Research Institute, Kisumu, Kenya*,

⁵*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁶*Coast General Provincial Hospital, Mombasa, Kenya*, ⁷*Kenyatta National Hospital, Nairobi, Kenya*,

⁸*International Rescue Committee, Nairobi, Kenya*, ⁹*United Nations High Commissioner for Refugees, Nairobi, Kenya*,

¹⁰*Ministry of Health, Nairobi, Kenya*

LB-5117

Community Based Health Workers Can Enhance Coverage of Intermittent Preventive Treatment of Malaria in Pregnancy and Promote Antenatal Attendance

William R. Brieger¹, Mathurin Dodo², Danielle Burke³, Ousmane Badolo², Justin Tiendrebeogo², Kristen Vibbert³, Susan J. Youll⁴, Julie R. Gutman⁵

¹*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*, ²*Jhpiego, Ougadougou, Burkina Faso*, ³*Jhpiego, Baltimore, MD, United States*, ⁴*US President's Malaria Initiative, US Agency for International Development, Washington, DC, United States*, ⁵*Malaria Branch, Center for Global Health, US Centers for Disease Control and Prevention, Atlanta, GA, United States*

LB-5118

Using Twitter to Track Unplanned School Closures: Georgia Public Schools, 2015-17

Jennifer O. Ahweyevu¹, Ngozi P. Chukwudebe¹, Brittany M. Buchanan¹, Jingjing Yin¹, Xiaolu Zhou¹, Zion Tsz Ho Tse², Gerardo Chowell³, Bishwa B. Adhikari⁴, **Isaac Chun-Hai Fung**¹

¹*Georgia Southern University, Statesboro, GA, United States*, ²*The University of Georgia, Athens, GA, United States*, ³*Georgia State University, Atlanta, GA, United States*, ⁴*Centers for Disease Control and Prevention, Atlanta, GA, United States*

Poster Session A
Late Breakers in Clinical and Applied Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5119

Analytical Performance of the FilmArray® Global Fever Panel

Jared R. Helm
BioFire Defense, Salt Lake City, UT, United States

LB-5120

Use of mobile data collection tools to improve implementation of epidemiological trials in Iquitos, Peru

Anna B. Kawiecki¹, William H. Elson¹, Marisa Donnelly¹, Julia Schwarz², Jody K. Simpson¹, Thomas W. Scott¹, Nicole L. Achee³, Amy C. Morrison¹
¹University of California, Davis, Davis, CA, United States, ²Icahn School of Medicine at Mount Sinai, New York, NY, United States, ³Eck Institute for Global Health, Notre Dame, IN, United States

LB-5121

How do spousal communication and household dynamics influence care seeking for sick children under five years of age in Nigeria?

Leanne Dougherty
John Snow, Inc., Rosslyn, VA, United States

LB-5122

To share or not to share your data - A survey of data sharing perceptions

Pornpimon Adams, Jaranait Kaewkungwal, Boosaree Titapiwatanakun, Jetsumon S. Prachumsri
Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

LB-5123

"First do no harm": Opinions on conducting Human Challenge Trials in Thailand

Jaranit Kaewkungwal, Pornpimon Adams, Boosaree Titapiwatanakun, Jetsumon Prachumsri
Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

LB-5124

Reproductive Health Sequelae in Women Who Survived Ebola Virus Disease in Liberia

Christine Godwin¹, David Wohl², William A. Fischer², Kavita Singh³, Darrell Hawks⁴, Sam Tozay⁵, Edwina Reeves⁵, Korto Pewu⁵, Elizabeth E. Devore⁶
¹FHI 360, Durham, NC, United States, ²University of

North Carolina School of Medicine, Chapel Hill, NC, United States, ³Department of Maternal and Child Health, Gillings School of Global Public Health, Chapel Hill, NC, United States, ⁴University of North Carolina School of Medicine, Chapel, NC, United States, ⁵ELWA Hospital, Monrovia, Liberia, ⁶Channing Division of Network Medicine, Department of Medicine, Brigham and Women's Hospital and Harvard Medical School, Boston, MA, United States

LB-5125

A spatial analysis of central nervous system infections in Lao PDR

Sayaphet Rattanavong¹, Audrey Dubot-Pérès², Mayfong Mayxay³, Manivanh Vongsouvath¹, Sue J. Lee⁴, Julien Cappelle⁵, Paul N. Newton⁶, **Daniel M. Parker⁷**

¹Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU), Microbiology Laboratory, Mahasot Hospital, Vientiane, Lao People's Democratic Republic, ²Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU); Nuffield Department of Clinical Medicine, University of Oxford; Unité des Virus Emergents (UVE: Aix-Marseille Univ – IRD 190 – Inserm 1207 – IHU Méditerranée Infection), Marseille, France, Vientiane, Lao People's Democratic Republic, ³Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU), Microbiology Laboratory, Mahasot Hospital; Faculty of Postgraduate Studies, University of Health Sciences, Vientiane, Lao People's Democratic Republic, ⁴Centre for Tropical Medicine and Global Health, Nuffield Department of Clinical Medicine, University of Oxford; Mahidol-Oxford Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Thailand, Oxford, United Kingdom, ⁵Epidemiology and Public Health Unit, Institut Pasteur du Cambodge, Phnom Penh, Cambodia; ASTRE, CIRAD, INRA, Université de Montpellier, Montpellier, France; CIRAD, UMR ASTRE, Montpellier, France, Phnom Penh, Cambodia, ⁶Lao-Oxford-Mahosot Hospital-Wellcome Trust Research Unit (LOMWRU), Mahosot Hospital; Centre for Tropical Medicine and Global Health, Nuffield Department of Clinical Medicine, University of Oxford, Vientiane, Lao People's Democratic Republic, ⁷University of California, Irvine, Irvine, CA, United States

LB-5126

Are new national malaria strategic plans informed by the previous ones? A comprehensive assessment focused on President's Malaria Initiative (PMI) priority countries from 2000 to present

Andrew Andrada, Samantha Herrera, Yazoume Ye ICF, Rockville, MD, United States

Poster Session A
Late Breakers in Clinical and Applied Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5127

The Association between Maternal and Infant Anemia; A Cohort Study in Coastal Kenya

Indu Malhotra¹, Francis Mutuku², Jackson Muinde³, Ronald Ottichilo⁴, Dunstan Mukoko³, A. Desieree LaBeaud⁵, Charles H. King¹

¹Case Western Reserve University, Cleveland, OH, United States, ²Technical University of Mombasa, Mombasa, Kenya, ³Division of Vector borne and neglected tropical Diseases, Nairobi, Kenya, ⁴Maseno University, Kisumu, Kenya, ⁵Stanford University, Stanford, CA, United States

LB-5128

Cost effectiveness of *Wolbachia* when deployed at scale in Indonesia

Oliver Brady¹, Lauren Carrington², Emilie Hendricx¹, Dinar Kharisma³, Ida S. Laksanawati⁴, Kathleen O'Reilly¹, **Donald S. Shepard**³, Cynthia Tschantl³, Nandyan N. Wilastonegoro⁵, Laith Yakob¹, Wu Zeng³
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LB-5129

Mycetoma - Results of the global WHO survey 2014-2016

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LB-5130

Diagnostic accuracy of CareStart G6PD deficiency RDT among children under 5 years: follow-up on previous study in Ghana

Dennis Adu-Gyasi, Harry Danwonno, Dennis Konadu Gyasi, Veronica Agyemang, Prince Agyarpong, Kwaku Poku Asante
Kintampo Health Research Centre, Kintampo North, Ghana

LB-5131

Seroprevalence and Seroincidence indicators of the anthropodborne and zoonotic infections among male communities (aged 18-35) in the Republic of Azerbaijan

Surkhay Mammadov¹, Eric Garges², Namig Huseynov³, Telman Ahmedkhanov³, Allen Richards⁴, Christina Farris⁵, Robert Rivard⁶, Roman Woelfel⁷

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LB-5132

A comparative analysis of social dimensions of podoconiosis and leprosy on affected households in the northwest region of cameroon

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LB-5133

Impact of School Feeding on the Control and Possible Elimination of Intestinal Helminthiasis in School Pupils, Anambra State, Nigeria

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LB-5134

R-Praziquantel Integrated Population Pharmacokinetics in Preschool- and School-Aged African Children Infected with *Schistosoma mansoni* and *S. haematobium* and Laotian Adults Infected with *Opisthorchis viverrini* in Two Phase 2a Studies

Christine Falcoz¹, Serge Guzy², Jana Kovač³, Isabel Meister³, David Wesche⁴, Jennifer Keiser³

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LB-5135

Evaluation of the School Trachoma Health Program After One Year of Program Implementation in Primary Schools of Amhara Regional State, Ethiopia

Eshetu Sata¹, Ayenachew Kerie¹, Kassa Bulcha¹, Melak Haileleule², Awoke Dagnaw², Ewnetu Bazie³, Mitiku Adugna³, Berhanu Melak¹, Abebe Fisseha¹, Demelash Gessese¹, Aisha E.P. Stewart⁴, Scott D. Nash⁴, Zebene Ayele¹, Amsayaw Tefera¹, Mulaw Abebe²

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LB-5136

Seroprevalence of Chikungunya virus infection in a French population-based cohort of people living with HIV after the 2014 Caribbean outbreak

Elodie CURLIER¹, Laurence FAGOUR², Cécile HERMANN-STORCK¹, Adrien STAELLEN², Sébastien BREUREC¹, Sylvie ABEL², Sandrine PIERRE-

FRANCOIS², Raymond CESAIRES², Bruno HOEN¹,

André CABIE²

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LB-5137

Intensified Dengue Control Measures in Urban Sri Lanka: Interrupted Time Series Analysis With Economic Evaluation

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LB-5138

Analyses on the expression, immunohistochemical property and diagnostic potentials of Peroxiredoxin-4 in *Schistosoma japonicum*

Minh-Anh DANG-TRINH¹, Jose Ma. M. ANGELES², Kharleezelle J. MOENDEG³, Adrian Miki C. MACALANDA⁴, Luna HIGUCHI⁵, Masashi KIRINOKI⁶, Yuichi CHIGUSA⁶, Yasuyuki GOTO⁷, Shin-ichiro KAWAZU¹

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LB-5139

Estimating Population Denominators and Coverage of Mass Drug Administration for Trachoma Using Polio's Vaccination Tracking System in Nigeria

Timothy P. Finn¹, Adamani William², Ezra Yarmina², Christian Nwosu², Ruth Dixon³, Philip Downs⁴, Nicholas Olobio⁵, Sunday Isiyaku²

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LB-5140

Safety of the co-administration of azithromycin, albendazole and ivermectin versus standard treatment regimens during mass drug administration (MDA) in Ethiopia: a cluster-randomized trial

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LB-5141

Results of trachomatous trichiasis-only surveys in four districts in Niger

Nassirou Beido¹, **Hadiara Adamou**², Kadri Boubacar¹, Tchouloum Toudja², Abdou Amza¹, Steven D. Reid³, Amy Veinoglou³

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LB-5142

Comparative analysis of transmission of Chagas disease in twin versus singleton births in Percy Boland Maternity Hospital, Santa Cruz, Bolivia

Freddy Tinajeros¹, Edward Valencia², María del Carmen Menduiña³, Clariza Chavez¹, Jean Karla Velarde¹, Manuela Verástegui², Edith Malaga², Edith Hinojosa¹, Federico Urquiza³, Caryn Bern⁴, Robert Gilman⁵

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LB-5143

Genetic diversity of *Plasmodium falciparum* field isolates from western Kenya

Hoseah M. Akala¹, Luisa A. Ingasia², Mateusz Konczal³, Agnes Cheruiyot R. Cheruiyot², Dennis W. Juma², Fyodor Kondrashov⁴, Matthew L. Brown², Ben Andagalu², Edwin Kamau⁵, Jim R. Managbanag⁶

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LB-5144

Genome variation in 7,000 *Plasmodium falciparum* samples from around the world: the MalariaGEN Pf6 open access dataset

Richard D. Pearson, on behalf of the MalariaGEN Plasmodium falciparum Community Project
Wellcome Sanger Institute, Cambridge, United Kingdom

LB-5145

T follicular helper (Tfh) cell responses to blood-stage malaria antigen RH5 elicited by vaccination with protein/AS01 are superior to those induced using heterologous viral vectors

Carolyn M. Nielsen, Ane Ogbe, Susanne E. Doebley, Isabela Pedroza-Pacheco, Sarah E. Silk, Jordan R. Barrett, Sean C. Elias, Ruth O. Payne, Angela M. Minassian, Persephone Borrow, Simon J. Draper
University of Oxford, Oxford, United Kingdom

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LB-5146

Tracking of Malaria Vectors Using Stable Isotopes to Measure the Contribution of Aestivation to Dry Season Persistence

Adama Dao¹, Roy Faiman², Alpha S. Yaro¹, Moussa Diallo¹, Zana L. Sanogo¹, Djibril Samake¹, Yossi Ousmane¹, Gabriel Hamer³, Christine A. France⁴, Tovi Lehmann²

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LB-5147

Cerebral Malaria Associated Expression of Neuregulin-1 in Human Brain

Juan C. Cespedes, Jonathan Stiles, Mingli Liu, Nana Wilson, Annette Nti
Morehouse School of Medicine, Athens, GA, United States

LB-5148

Malaria Service Data Quality Improvement (MSDQI) Package: A new tool to improve malaria services at health facilities: Baseline results from the MSDQI- assisted supportive supervision on malaria management in Southern Tanzania

Joseph MUGASA¹, Abdallah Lusasi², Guido Libaba³, Jongo Machage³, Margareth Makuchilo³, Patrick Kitali³, John Gamaliel¹, Genchwele Makenge⁴, Chonge Kitojo⁵, Emeka Okechukwu¹, Halima Mwenesi⁶, Marina Njelekela⁷

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LB-5149

The impact of the addition of azithromycin to the antimalarials used for seasonal malaria chemoprevention on mortality and morbidity in African children

Daniel Chandramohan¹, Alassane Dicko², Jean-Bosco Ouedraogo³, Issaka Zongo³, Issaka Sagara², Irene Kuepfer¹, Modibo Diarra², Amadou Barry², Amadou Tapily², Frederic Nikiema³, Serge Yerba³, Ismaila Thera², Abdourhamane Traore³, Paul Milligan¹, Halidou Tinto³, Matthew Cairns¹, Ogobara Doumbo², Brian Greenwood¹

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LB-5150

Factors related to LLIN use behavior during travel in western Kenya

Elizabeth J. Anderson¹, Jenna Coalson¹, Maurice Agawo², Stephen Munga³, Kacey C. Ernst¹

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LB-5151

Prevalence, epidemiological risk and clinical effects of asymptomatic malaria based on ultrasensitive diagnostics

Dewdunee H. Marasinghe¹, James Cheaveau², Seble G. Demissie³, Adugna Abera³, Sindew Feleke³, Lemu Golassa⁴, Abu Naser Mohon², Ruth Legese², Nirujah Balasingam², Dylan R. Pillai²

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LB-5152

The optimization of loop-mediated isothermal amplification (LAMP) as a diagnostic tool for low-density parasitemia malaria along the Vietnam-Cambodia border

Leanna Surrao¹, Vashti Irani¹, Duy Thanh Vo¹, Nguyen Xuan Thang², Ha Nam Nguyen², James O'Donnell¹, Ricardo Ataide¹, An Le¹, Gerard Kelly¹, Sara Canavati¹, Joshua Tram¹, David Piedrafita³, Andrew Greenhill³, Gary Dahl⁴, Mauricio Vazquez⁴, Jack Hopper⁵, Bill Hopper⁵, Xavier Ding⁶, Duc Van Bui⁷, Ngo Duc Thang², Tran Thanh Duong², Jack Richards¹

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LB-5153

Challenges in the treatment of acute falciparum malaria in Vietnam

Chau H. Nguyen, Hoa T. Nhu, Hien T. Tran
Oxford University Clinical Research Unit, Ho Chi Minh, Vietnam

LB-5154

Scaling up vector control interventions for malaria control and elimination in southern Zambia: progress, challenges, and opportunities

Javan Chanda¹, Kochelani Saili¹, Reuben Zulu², John M. Miller¹, Busiku Hamainza²
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LB-5155

Using Experiential Media as an Approach to Create Awareness and Demand of Malaria Interventions: Experience from ComCase Campaign- Tanzania Mainland

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MALARIA INITIATIVE- UNITED STATES AGENCY FOR INTERNATIONAL DEVELOPMENT, DAR ES SALAAM, United Republic of Tanzania

LB-5156

Rapid reduction and sustained low levels of transmission through the implementation of a malaria elimination project in Magude District, Southern Mozambique

Beatrix Galatas¹, Helena Martí-Soler¹, Julia Montañà¹, Caterina Guinovart¹, Humberto Munguambe², Lidia Nhamussua², Wilson Simone², Pedr L. Alonso¹, N. Regina Rabinovich¹, Clara Menéndez¹, Quique Bassat¹, Laia Cirera¹, Krijn Paaijmans¹, Francisco Saúte², Pedro Aide²
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LB-5157

Evaluation of a laboratory quality assurance pilot programme for malaria diagnostics in low transmission areas of Kenya, 2013

ROSE A. ADENY¹, Elizabeth Wanja², Rachel Achilla³, Caroline Moseti¹, Victor Otieno¹, Collins Moranga⁴, Derek R. Monthei⁵, Bernhard Ogutu¹, Ephantus Murigi⁶, John Nyamuni⁶, Ann M. Buff⁷
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LB-5158

Molecular markers of *Plasmodium falciparum* drug resistance and parasite diversity across two different malaria endemic sites in Mali

Seidina A. S. Diakite
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LB-5159

Use of a malaria in pregnancy facility assessment tool to identify key challenges in implementing IPTp in Moramanga District, Madagascar, January 2018

Marianne Henry¹, Aimee Ravaoarinosa², Jocelyn Razafindrakoto³, Lalanirina Ravony⁴, Lia Florey⁵, Laurent Kapesa³, Annett Cotte⁶, Catherine Dentinger⁷, Julie Gutman⁸, Susan Youll⁵
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LB-5160

Review of the utilisation of long lasting insecticidal bed nets (LLIN) in malaria endemic areas of Bangladesh

Mohammad Moktadir Kabir, Shamsun Naher, Md. Akramul Islam, Amit Kumer Neogi, Ashraf Siddiqui, Shahidul Islam Laskar
BRAC, Dhaka, Bangladesh

LB-5161

Malaria infection in pregnant women in semi-urban and rural health centers in Ouelessebougou, Mali

Moussa Traore¹, Almamoudou Mahamar¹, Amadou Barry¹, Djibrilla Issiaka¹, Gaoussou Santara¹, Oumar Attaher¹, Sekouba Keita¹, Bakary Soumana Diarra¹, Moussa Bamba Kanoute¹, Kadidia Baba Cisse¹, Adama Dembele¹, Adama Sissoko¹, Idrissa Samake¹, Boubacar N'tji Diarra², Patrick Emmet Duffy³, Michal Fried³, Alassane Dicko¹
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LB-5162

Antibodies to subdomain 1 of PvDBP recognize VAR2CSA in non pregnant populations from Colombia and Brazil

Angie Y. Mena Palacios¹, Catherine J. Mitran¹, Hazel Lugo¹, Eliana Arango², Amanda Maestre², Flora S. Kano³, Luzia H. Carvalho³, Michael F. Good⁴, Sedami Gnidehou¹, Stephanie S. Yanow¹
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LB-5163

Autoantibodies as biomarkers to differentiate children with *P.falciparum* malaria from bacterial bloodstream infections

Nicole Struck¹, Ralf Krumkamp¹, Marlow Zimmermann¹, Eva Lorenz¹, Thomas Jacobs¹, John Amuasi², Nimako Sarpong², Daniel Eibach¹, Jürgen May¹
¹Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, ²Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana

LB-5164

Is chronic malnutrition associated with an increase in malaria incidence? A cohort study in children aged under 5 years in rural Gambia

Anne L. Wilson¹, John Bradley², Ballah Kandeh³, Kolawole Salami⁴, Umberto D'Alessandro⁴, Margaret Pinder⁴, Steve W. Lindsay¹
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LB-5165

Preliminary entomological profiles of households in *Plasmodium falciparum* case foci and comparison areas in Grand'Anse, Haiti

Vena Joseph¹, Ruth A. Ashton¹, Thomas Druetz¹, Cyrille Czeher², Jean Frantz Lemoine³, Thomas P. Eisele¹, Joseph Keating¹, Daniel Impoinvil⁴
¹Tulane University, New Orleans, LA, United States, ²Institut de Recherche pour le Développement, Montpellier, France, ³Ministère de la santé publique et de la population, Port-au-Prince, Haiti, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5166

Final primary and secondary outcome data from RIMDAL: Repeat ivermectin mass drug administrations for control of malaria: a cluster-randomized trial to evaluate efficacy and risk of harms

Brian D. Foy¹, Haoues Alout¹, Jonathan A. Seaman¹, Sangeeta Rao¹, Tereza Magalhaes¹, Martina Wade², Sunil Parikh², Dieudonne D. Soma³, Andre B. Sagna⁴, Florence Fournet⁴, Hannah C. Slater⁵, Roland Bougma⁶, Francois Drabo⁶, Abdoulaye Diabate³, Abdoulaye Diabate³, A. Gafar Coulibaly³, Roch K. Dabiré³
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LB-5167

Chemoprophylaxis Vaccination (PfSPZ-CVac) with high dose of Sanaria® PfSPZ Challenge NF54 under Pyrimethamine is Safe and Prevents Development of Blood Stage Parasites

Agnes Mwakingwe-Omari¹, Sara A. Healy¹, Jacquelyn Lane¹, Susan Pfeiffer¹, David Cook¹, Sahand Kalhor¹, Charles Wyatt¹, Alemush Imeru¹, Martha Nason¹, Irfan Zaidi¹, Junhui Duan¹, Jill Neal¹, Jen C. Hume¹, Charles Anderson¹, Hope Dederdefelt¹, Tooba Murshedkar², Adam J. Ruben², Sumana Chakravarty², Anita Manoj², Anusha Gunasekera², B. Kim Lee Sim³, Peter F. Billingsley², Eric R. James², Thomas L. Richie², Stephen L. Hoffman², Patrick E. Duffy¹

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LB-5168

Semi-field studies to evaluate the effects of eave tubes on mosquito behavior & mortality

Antoine MG Barreaux¹, N'Guessan Brou², Ludovic P. Ahou Alou², Alphonse A. Koffi², Raphaël N'Guessan³, Eleanore D. Sternberg¹, Matthew B. Thomas¹

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LB-5169

Towards better malaria surveillance in Mozambique: Findings, identified bottlenecks and recommendations from 2018 national comprehensive surveillance assessment

Arantxa Roca-Feltrer¹, Elizabeth Streat², Sergio Gomane², Fabião Luis³, Guidion Mathe⁴, Sergio Tsabete⁴, Sergio Lopes⁵, Pelágio Marrune⁴, Francisco Saute³, Abdisanar Noor⁶, Baltazar Candrinho⁴

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LB-5170

Knockdown resistance (*Kdr*) mutations found in Eastern Ethiopia *Anopheles arabiensis*

Shantoy Hansel¹, Tamar E. Carter², Araya Gebresilassie³, Solomon Yared³, Daniel Janies¹
¹University of North Carolina at Charlotte, Charlotte, NC, United States, ²Baylor University, Waco, TX, United States, ³Jigjiga University, Jigjiga, Ethiopia

LB-5171

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

MAMADOU L. DIOUF

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LB-5172

Molecular Surveillance for Drug Resistant *Plasmodium falciparum* imported to Ontario

Ruwandi Kariyawasam¹, Eric Shao², Rachel Lau³, Adrienne Showler⁴, Filip Ralevski³, Andrea K. Boggild¹

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²Western University, London, ON, Canada, ³Public Health Ontario, Toronto, ON, Canada, ⁴Georgetown University, Washington, DC, United States

LB-5173

Immunogenicity of a Fractional Third and Fourth Dose of RTS,S/AS01 Malaria Candidate Vaccine: A Controlled Human Malaria Parasite Infection (CHMI) Trial in Adults

James E. Moon¹, Jason A. Regules¹, Elke Bergmann-Leitner¹, Christian Ockenhouse², Ulrike Wille-Reece², Cynthia Lee², Danielle Morelle³, Erik Jongert³, Marc Lievens³
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LB-5174

Using SMFA and ELISA for decision-making during clinical development of Pfs25 and Pfs230D1 transmission blocking vaccines against *Plasmodium falciparum*

Maryonne Snow-Smith¹, Charles Anderson¹, Issaka Sagara², Mahamadou Sissoko², Mahamadoun Assadou², Abdoulaye Katile², M'bouye D. Kone², Olga Muratova¹, Emily Kelnhof¹, Ashley McCormack¹, David Narum¹, Scaria Puthupparampil¹, Kelly Rausch¹, Bruce Swihart¹, Agnes Mwakingwe¹, Sara Healy¹, Patrick Duffy¹, Ogobara K. Doumbo², Nicholas J. MacDonald¹, Danielle Morelle³, Marc Lievens³

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LB-5175

Safety and Functional Immunogenicity of Pfs230D1M-EPA/AS01 Transmission Blocking Vaccine against *Plasmodium falciparum* in Malian Adults

Issaka Sagara¹, Sara A. Healy², Mamady Kone¹, Mahamadoun H. Assadou¹, Abdoulaye Katile¹, Bruce Swihart³, Jennifer Kwan⁴, Mahamadou S. Sissoko¹,

Merepen A. Guindo¹, M'Bouye Doucoure¹, Daman Sylla¹, Adama Sacko¹, Danielle Morelle⁵, Marc Lievens⁵, Charles Anderson², Kelly Rausch², David L. Narum², Puthupparampil Scaria², Nicholas J. MacDonald², Daming Zhu², Olga Muratova², Mamadou Coulibaly¹, Agnes Mwakingwe-Omari², Jen C. Hume², Amagana Dolo¹, Sekou F. Traore¹, Ogobara K. Doumbo¹, Patrick E. Duffy²
¹MRTC, University of Science, Techniques and Technologies, Bamako, Mali, ²LMIV/NIAID/NIH, Rockville, MD, United States, ³BRB/NIAID/NIH, Rockville, MD, United States, ⁴LCIM/NIAID/NIH, Bethesda, MD, United States, ⁵GSK, Wavre, Belgium

LB-5176

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

Rachel Lau¹, Michelle Dong², Jason Kwan³, Ruwandi Kariyawasam⁴, Eric Shao⁵, Filip Ralevski¹, **Andrea K. Boggild**⁴

¹Public Health Ontario, Toronto, ON, Canada,

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³McMaster University, Hamilton, ON, Canada,

⁴University of Toronto, Toronto, ON, Canada,

⁵Western University, London, ON, Canada

LB-5177

Dual-Allele *P. falciparum* FVO and 3D7 MSP1 antigenic Coverage Achieved using SAPN Vaccine Platform

Christopher Mann

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

LB-5178

Formulation stability assessments of preclinical vaccines containing malaria candidates Pfs230D1M-EPA and CSP(3D7)-EPA in liposomal and oil-based adjuvants

Kelly M. Rausch, Emma K. Barnafot, Karine Reiter, Richard L. Shimp, Puthupparampil Scaria, David L. Narum, Patrick E. Duffy

National Institutes of Health/National Institute of Allergy and Infectious Diseases/Laboratory of Malaria Immunology and Vaccinology, Rockville, MD, United States

Poster Session A
Late Breakers in Clinical and Applied Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5179

**Prospects of eliminating malaria in Zimbabwe:
Foci analysis and evaluation in 20 elimination
districts**

Joseph MBERIKUNASHE¹, Busisani Dube¹, Brighton Gumbinga², Anderson Chimusoro³, Patience Dhliliwayo¹, Munashe Madinga²
¹National Malaria Control Programme, Harare, Zimbabwe, ²Clinton Health Access Initiative, Harare, Zimbabwe, ³World Health Organization, Geneva, Switzerland

LB-5180

**Tanzania School Net Program: Maturing to semi
auto-piloted Implementation**

Waziri Nyoni¹, David Dadi¹, Noela Kisoka¹, Kanuth Disomo¹, George Kabulika¹, Eric Shoo², Winifred Mwafongo³, Ally Mohamed³, George Greer⁴, Naomi Kaspar⁵, Eric Filemyr¹, Hannah Koenker¹, Matt Lynch¹, Ato Selby¹
¹Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, ²Population Services International, Dar es Salaam, United Republic of Tanzania, ³National Malaria Control Program, Dar es Salaam, United Republic of Tanzania, ⁴President's Malaria Initiative, Dar es Salaam, United Republic of Tanzania, ⁵President's Malaria Initiative, Dar es Salaam, United Republic of Tanzania

LB-5181

**Feasibility of an Ovine Model of Male ZIKV
Infection**

Erika R. Schwarz¹, Ruiyu Pu¹, Sarah Beachboard¹, Kelli L. Barr², Maureen T. Long¹
¹University of Florida, Gainesville, FL, United States, ²Baylor University, Waco, TX, United States

LB-5182

**Validation of a real-time PCR based detection
system for Yellow Fever Virus specific RNA**

Patricia Sequeira¹, Hussein El Halas², Karin Rottengatter², Simone Alves Sampaio¹, Ana Bispo de Filippis¹, **Leonie-Sophie Hecht²**
¹Instituto Oswaldo Cruz – Fiocruz, Rio de Janeiro, Brazil, ²altona Diagnostics, San Francisco, CA, United States

LB-5183

**Dengue, Zika and Chikungunya viruses and
pregnancy outcomes in Jamaica**

Tracy Evans-Gilbert¹, J.Peter Figueroa², Maung Aung³
¹Cornwall Regional Hospital, Montego Bay, Jamaica, ²University of the West Indies, Kingston, Jamaica, ³Western Regional Health Authority, Montego Bay, Jamaica

LB-5184

**Dengue illness impacts daily human mobility
patterns in Iquitos, Peru**

Kathryn L. Schaber¹, Valerie A. Paz-Soldan², Amy C. Morrison³, William H. Elson³, Alan L. Rothman⁴, Thomas W. Scott³, Lance Waller¹, Uriel D. Kitron¹, John P. Elder⁵, Gonzalo M. Vazquez-Prokopec¹
¹Emory University, Atlanta, GA, United States, ²Tulane University, New Orleans, LA, United States, ³University of California Davis, Davis, CA, United States, ⁴University of Rhode Island, Providence, RI, United States, ⁵San Diego State University, San Diego, CA, United States

LB-5185

**Estimating the duration of protection following
a booster dose of the inactivated Japanese
encephalitis vaccine IXIARO, IC51 in children**

Christian Taucher¹, Michael Kundi²
¹Valneva Austria GmbH, Vienna, Austria, ²Center for Public Health, Medical University of Vienna, Vienna, Austria

LB-5186

CMV Seroprevalence in Sierra Leone

Monika L. Dietrich, John S. Schieffelin
Tulane University, New Orleans, LA, United States

LB-5187

**Epidemiology of Severe Fever with
Thrombocytopenia Syndrome Virus in South
Korea**

KEUN HWA LEE¹, Jeong Rae Yoo¹, Sang Taek Heo¹, Young Ree Kim¹, Yu Mi Wi², Sung-Cheol Yun³, Sung-Han Kim³
¹Jeju National University College of Medicine, JEJU, Republic of Korea, ²Sungkyunkwan University Hospital, Changwon-si, Republic of Korea, ³Asan Medical Center, University of Ulsan College of Medicine, Seoul, Republic of Korea

Poster Session A
Late Breakers in Clinical and Applied Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5188

Phase 1 First in Human Study in Healthy Volunteers Support Safety and Tolerability of Anti-Zika Antibody Tzyvumab, a Therapeutic Candidate for Zika Disease

Justin HJ Ng¹, Megan McBee¹, Yok-Hian Chionh¹, Yuan Wei², Ganesh Lekurwale², Yee-Leong Teoh², Yadunanda Budig¹, Eng-Eong Ooi¹, Jenny G. Low³

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LB-5189

Impact of an additional dose and longer immunization interval on the safety and immunogenicity of an AS03_B-adjuvanted dengue purified inactivated vaccine up to 12 months after administration in healthy U.S. adults

Michael Koren¹, Kirsten E. Lyke², Leyi Lin¹, Kenneth H. Eckels¹, Edith Lepine³, Monica A. McArthur², Paul Keiser¹, Rafael De La Barrera¹, David W. Vaughn³, Robert Paris³, Stephen J. Thomas¹, Richard G. Jarman¹, Alexander C. Schmidt³

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LB-5190

Immunogenicity 28 days and one year after a Dengue Vaccine Booster in Healthy Adolescents and Adults in Latin America after 4 to 5 Years of a Primary 3-Dose Schedule

Diana Coronel¹, Enid Garcia-Rivera², Doris Maribel Rivera³, José Luis Arredondo⁴, Betzana Zambrano⁵, Zhenghong Chen⁶, Matthew Bonaparte⁷, Ana Paula Perroud⁸, Gustavo Dayan⁷, Carlos A. DiazGranados⁷, Andrey Rojas⁹, Margarita Cortés⁹, Fernando Noriega⁷

¹Sanofi Pasteur, Mexico City, Mexico, ²University of Puerto Rico, Puerto Rico, Puerto Rico, ³Inversiones en Investigación Médica, Tegucigalpa, Honduras, ⁴Instituto Nacional de Pediatría, Clinical Research Unit, Mexico City, Mexico, ⁵Sanofi Pasteur, Montevideo, Uruguay, ⁶Sanofi Pasteur, Beijing, China, ⁷Sanofi Pasteur, Swiftwater, PA, United States, ⁸Sanofi Pasteur, São Paulo, Brazil, ⁹Sanofi Pasteur, Bogotá, Colombia

LB-5191

iPS derived dendritic cells for *in vitro* dengue virus infection model

Kenji Hirayama¹, Shyam Prakash Dumre¹, Dao Huy Manh¹, Shusaku Mizukami¹, Muhareva Raekiansyah¹, Satoru Senju², Yasuharu Nishimura², Juntra Karbwang¹, Nguyen Tien Huy¹, Kouichi Morita¹

¹Institute of Tropical Medicine (NEKKEN), Nagasaki, Japan, ²Kumamoto University Graduate School of Medical Sciences, Kumamoto, Japan

LB-5192

Modelling the heterogeneity of dengue transmission in Sri Lanka from age-specific case surveillance data

Nayantara Wijayanandana¹, Natsuko Imai², Flavio Finger¹, Neil Ferguson², Hasitha Tissera³, Neal Alexander¹

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Imperial College London, London, United Kingdom, ³Ministry of Health, Colombo, Sri Lanka

LB-5193

Environmental Risk Factors associated with Dengue Virus infection from Novel Family Cohort Study in Kamphaeng Phet, Thailand during year 2016-2017

Chaleaw Saengchan¹, Darunee Buddhari¹, Kathryn B. Anderson², Sopon Iamsirithaworn³, Butsaya Thaisomboonsuk¹, Ananda Nisalak¹, Alongkot Ponlawat¹, Anon Srikiatkachorn⁴, Alan L. Rothman⁴, Alden L. Weg¹, Damon W. Ellison¹, Louis R. Macareo¹, Timothy P. Endy⁵

¹Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²University of Minnesota Medical School, Minneapolis, MN, United States, ³Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, ⁴University of Rhode Island, Providence, RI, United States, ⁵State University of New York, Syracuse, NY, United States

Poster Session A
Late Breakers in Clinical and Applied Sciences
Monday, October 29, Noon - 1:45 p.m.

LB-5194

The impact of improved water, sanitation and hygiene on oral rotavirus vaccine immunogenicity in Zimbabwean infants: a substudy of a cluster-randomised trial

James A. Church¹, Sandra Rukobo², Margaret Govha², Benjamin Lee³, Marya P. Carmolli³, Bernard Chasekwa², Robert Ntozini², Kuda Mutasa², Florence D. Majo², Naume V. Tavengwa², Monica McNeal⁴, Lawrence H. Moulton⁵, Jean H. Humphrey⁵, Beth D. Kirkpatrick³, Andrew J. Prendergast¹

¹Queen Mary University of London, London, United Kingdom, ²Zvitambo Institute of Maternal & Child Health Research, Harare, Zimbabwe, ³University of Vermont, Burlington, VT, United States, ⁴University of Cincinnati, Cincinnati, OH, United States, ⁵Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States

LB-5195

Mass distribution of household water filters dramatically reduces diarrheal disease rates in Liberia

Kristen R. Alford, Stacy Lynn De Ruiter, Randall Pruim, Jason E. VanHorn, Abigail G. Stratton, Jared T. Deighton, Matthew B. Bone, Jamison L. Koeman
Calvin College, Grand Rapids, MI, United States

LB-5196

WASH Factors and Leprosy-Schistosomiasis Co-infections in North Gondar, Ethiopia: Risk Factors for Leprosy Transmission?

Lisa E. Emerson¹, Puneet Anantharam¹, Kassahun D. Bilcha², Feleke M. Yehaula³, Abebe G. Bayih³, Annisa B. Tesfaye³, Jessica K. Fairley²

¹Emory University Rollins School of Public Health, Atlanta, GA, United States, ²Emory University School of Medicine, Atlanta, GA, United States, ³University of Gondar College of Medicine and Health Sciences, Gondar, Ethiopia

LB-5197

Effects of water, sanitation, handwashing and nutritional interventions on enteropathogen burden in young children: a cluster-randomized controlled trial in rural Bangladesh

Jessica Grembi¹, Md. Abdul Karim², Md. Ohedul Islam², Rana Miah², Audrie Lin³, Benjamin Arnold³, Elizabeth Rogawski⁴, James Platts-Mills⁴, Mami Taniuchi⁴, Jie Liu⁴, Eric Houpt⁴, Rashidul Haque², Susan Holmes¹, Stephen Luby¹

¹Stanford University, Palo Alto, CA, United States, ²icddr,b, Dhaka, Bangladesh, ³University of California, Berkeley, Berkeley, CA, United States, ⁴University of Virginia, Charlottesville, VA, United States

LB-5198

The role of gender in community-level social organization and WASH insecurity in rural, coastal Ecuador

Sonia T. Hegde¹, Marisa Eisenberg¹, James Trostle², Joseph Eisenberg¹

¹University of Michigan, Ann Arbor, MI, United States, ²Trinity College, New Haven, CT, United States

LB-5199

Infectious disease outbreaks upon occurrence of storm events in the United States 2014-2018

Aliyah Scott, Anthony Edwards, Wilson Curtis, Maurice Hanns, **Sabina D. Otienoburu**
Johnson C. Smith University, Charlotte, NC, United States

Poster Session 77

Poster Session B

Late Breakers in Basic Sciences

Tuesday, October 30, Noon - 1:45 p.m.

Marriott - Grand Ballroom (3rd Floor)

Arthropods/Entomology	#LB-5207 through LB-5221
Malaria	#LB-5222 through LB-5253
Pneumonia, Respiratory Infections and Tuberculosis	#LB-5254 through LB-5255
Protozoa	#LB-5256 through LB-5260
Trematodes	#LB-5261 through LB-5263
Viruses	#LB-5264 through LB-5273

LB-5207

Further exploration of the resistance of *Aedes aegypti* to ebola virus infection

Alexander Gold

Boston University, Boston, MA, United States

USAID, Monrovia, Liberia, ⁷PMI VectorLink (VL) Project, Abt Associates Inc., Bethesda, MD, United States, ⁸PMI, USAID, Washington, DC, United States

LB-5208

Modelling the occurrence and abundance of *Aedes aegypti* and *Aedes albopictus* in Florida

Bingyi Yang¹, Brooke A. Borgert¹, John P. Smith², Florida Mosquito Control Consortium¹, Derek A. Cummings¹

¹*University of Florida, Gainesville, FL, United States*

²*Florida State University, Panama City, FL, United States*

LB-5209

Insecticide resistance in *Anopheles gambiae* s.l. populations from the 15 counties in Liberia, West Africa

Ibrahima Baber¹, Agnes Nador², George Gweh², George Dehnue², Chrispin Williams², Paye Nyansaiye², Peter Obenauer³, Christie Reed⁴, Ramlat Jose⁵, Jessica Kafuko⁶, Pamela Dasher⁷, Akiliu Seyoum⁷, Jennifer Armistead⁸, Christen Fornadel⁸

¹*U.S. Agency for International Development (USAID) U.S. President Malaria Initiative (PMI) VectorLink (VL) Project, Abt Associates Inc., Monrovia, Liberia, Monrovia, Liberia, ²National Malaria Control Program, Monrovia, Liberia, ³PMI, Navy and Marine Corps Public Health Center Detachment, Centers for Disease Control and Prevention (CDC), Atlanta, GA, United States, ⁴PMI, CDC, Atlanta, United States (Currently Global Immunization Division), Nairobi, Kenya, ⁵PMI, USAID Liberia (Currently Global Fund Malaria/Ministry of Health), Luanda, Angola, ⁶PMI,*

LB-5210

Mosquito population during hurricane and non-hurricane seasons (2017)

Emilee E. Colón-Lorenzo¹, Harry G. Ramírez², Robert Rodríguez³, Vivian S. Green³, Juan C. Orengo³, Adelfa E. Serrano¹

¹*University of Puerto Rico-School of Medicine, San Juan, Puerto Rico, ²University of Puerto Rico-Rio Piedras Campus, San Juan, Puerto Rico, ³Ponce Health Sciences University, Ponce, Puerto Rico*

LB-5211

Contact irritancy response of *Aedes albopictus* to several plant-derived compounds using the high throughput screening system

Diana I. Ortiz¹, Zachary N. Johns², Cameron D. Yard²

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LB-5212

Molecular analysis of secondary vector species in the Democratic Republic of Congo

Allison L. Hendershot¹, Lily Yu¹, Emile Manzambi², Francis Wat'senga², Richard Oxborough³, Seth Irish⁴, Neil F. Lobo¹

¹*University of Notre Dame, Notre Dame, IN, United States, ²Institut National de Recherche Biomedicale, Kinshasa, Democratic Republic of the Congo, ³Abt Associates, Rockville, MD, United States, ⁴Centers for Disease Control, Atlanta, GA, United States*

Poster Session B
Late Breakers in Basic Sciences
Tuesday, October 30, Noon - 1:45 p.m.

LB-5213

Mosquito surveillance in Alabama highlights regions of potential arboviral risk

Benjamin A. McKenzie¹, Jaclyn S. Everly², Megan K. Thurmond¹, Grace L. Gable³, Ansley E. Murphy⁴, Sarah Zohdy¹

¹Auburn University, Auburn, AL, United States, ²University of Southern Mississippi, Hattiesburg, MS, United States, ³University of North Carolina at Charlotte, Charlotte, NC, United States, ⁴Sewanee: University of the South, Sewanee, TN, United States

LB-5214

Multi-Scalar Analysis of *Anopheles* Mosquito Larval Distribution in a Gravity-fed Irrigation System in Malawi

April N. Frake¹, Grivin Chipula², Joseph P. Messina¹, Leo Zulu¹, Themba Mzilahowa³, Edward D. Walker¹

¹Michigan State University, East Lansing, MI, United States, ²Lilongwe University of Agriculture and Natural Resources, Lilongwe, Malawi, ³University of Malawi College of Medicine, Blantyre, Malawi

LB-5215

Leveraging Big Data for Public Health: Mapping Malaria Vector Habitat Suitability in Malawi with Google Earth Engine

April N. Frake, Brad G. Peter, Joseph P. Messina, Edward D. Walker

Michigan State University, East Lansing, MI, United States

LB-5216

Does Overlap of Malaria Vector Control and Agricultural Pest Management Exacerbate Vector Resistance?

Mike W. Dunbar¹, Robert S. McCann², Themba Mzilahowa³

¹Emory University, Atlanta, GA, United States, ²Wageningen University, Wageningen, Netherlands, ³MAC Communicable Diseases Action Centre, College of Medicine, University of Malawi, Chichiri, Malawi

LB-5217

Profiling insecticide resistance in the dengue vector *Aedes aegypti* in Colombia

Clare Strode¹, Yurany Granada², Ana María Mejía-Jaramillo², Omar Triana-Chavez²

¹Edge Hill University, Ormskirk, United Kingdom, ²Universidad de Antioquia, Medellín, Colombia

LB-5218

Screening for Arboviral Infection in *Aedes aegypti* Populations from South-western Ecuador: Preliminary Results

Andrea López-Rosero¹, Anna M. Stewart-Ibarra², Frolán Heras³, Sadie J. Ryan⁴, Erin Mordecai⁵, **Marco Neira**¹

¹Center for Research on Health in Latin America-CISAL, Department of Exact and Natural Sciences, Pontificia Universidad Católica del Ecuador, Quito, Ecuador, ²Institute for Global Health and Translational Science, SUNY Upstate Medical University, Syracuse, NY, United States, ³Universidad Técnica de Machala, Machala, Ecuador, ⁴Quantitative Disease Ecology and Conservation (QDEC) Lab, Department of Geography, University of Florida, Gainesville, FL, United States, ⁵Department of Biology, Stanford University, Stanford, CA, United States

LB-5219

Speciation with introgression in the *Anopheles funestus* Subgroup

Scott T. Small¹, Frederic Labbe¹, Neil F. Lobo¹, Chadwick H. Sikaala², Lizzette L. Koekemoer³, Daniel E. Neafsey⁴, Michael C. Fontaine⁵, Nora J. Besansky¹

¹University of Notre Dame, Notre Dame, IN, United States, ²National Malaria Control Program, Lusaka, Zambia, ³University of Witwatersrand, Johannesburg, South Africa, ⁴Harvard University, Cambridge, MA, United States, ⁵University of Groningen, Groningen, Netherlands

LB-5220

Enhanced gene flow is associated with landscape factors for *Anopheles arabiensis* and *Anopheles gambiae* in Kenya

Elizabeth Hemming-Schroeder¹, Eugenia Lo², Daibin Zhong¹, Harrysone Atieli¹, Samuel Kahindi¹, Andrew Githeko¹, Guiyun Yan¹

¹University of California, Irvine, Irvine, CA, United States, ²University of North Carolina, Charlotte, Charlotte, NC, United States

Poster Session B
Late Breakers in Basic Sciences
Tuesday, October 30, Noon - 1:45 p.m.

LB-5221

Evaluating current and future potential distribution of Phlebotominae sand flies in Italy under climate change scenarios

Camila Gonzalez¹, Marco Pombi², Gioia Bongiorno³,
Johan Calderón¹, Luigi Gradoni³, Simona Gabrielli²

¹Centre for Research in Tropical Microbiology and Parasitology (CIMPAT). Department of Biological Sciences. Faculty of Sciences. Universidad de Los Andes, Bogota, Colombia, ²Dipartimento di Sanità Pubblica e Malattie Infettive, Università di Roma Sapienza., Rome, Italy, ³Dipartimento di Malattie Infettive, Reparto di malattie trasmesse da vettori, Istituto Superiore di Sanità, Rome, Italy

LB-5222

Training outcome for malaria microscopy during an antimalarial therapeutic efficacy study Zanzibar 2017

Safia M. Ali¹, Majda H. Nassor¹, Bakar J. Mohammed¹, Bimkubwa K. Kombo¹, Makame M. Kombo¹, Abdullah S. Ali¹, Hamid K. Pandu¹, Chonge K. Kitojo¹, Naomi K. Kaspar², Erik J. Reaves²
¹Zanzibar Malaria Elimination Program, Zanzibar, United Republic of Tanzania, ²USAID -Tanzania, Dar-es-salaam, United Republic of Tanzania

LB-5223

Saglin, an *Anopheles gambiae* saliva protein, plays a major role in early stage *Plasmodium* infection in the mosquito vector

Frank Criscione¹, Eric Calvo¹, Lampouguin Yenkoidiok Douti¹, David O'Brochta², Jose Ribeiro¹
¹NIH, Bethesda, MD, United States, ²FNIH, Bethesda, MD, United States

LB-5224

Dr

Mohammed H Abdelraheem¹, Devendra Bansal², Mohammed A Idris¹, Moawia M Mukhtar³, Moawia M Mukhtar⁴, Muzamil M Abdel Hamid⁵, Zainb S Imam⁵, Sisay Getachew⁶, Rakesh Sehgal⁷, Salama Al-Hamidhi¹, Amal A H Gadalla⁸, Zainab S Al-Hashami¹, Ali A Al-Jabri¹, Ali A Sultan⁹, **Hamza A. Babiker**¹

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Diseases, University of Khartoum, Sudan, Sudan, ⁶Addis Ababa University, Addis Ababa, Ethiopia, Ethiopia, ⁷Department of Medical Parasitology, Postgraduate Institute of Medical Education and Research, Chandigarh, India., India, ⁸Division of Population Medicine, School of Medicine, College of Biomedical Sciences, Cardiff University, Cardiff, UK, United Kingdom, ⁹2 Department of Microbiology and Immunology, Weill Cornell Medicine-Qatar, Cornell University, Qatar Foundation-Education City, Doha, Qatar

LB-5225

ELISA units and IgG subclass ratio determined functional activity of mouse anti-Pfs230 antibodies judged by a standard membrane-feeding assay with *Plasmodium falciparum*

Kazutoyo Miura¹, Bingbing Deng¹, Yimin Wu², Luwen Zhou¹, Thao P. Pham¹, Ababacar Diouf¹, Chia-Kuei Wu², Shwu-Maan Lee², Merribeth J. Morin², Carole A. Long¹

¹Laboratory of Malaria and Vector Research/NIAID/NIH, Rockville, MD, United States, ²PATH's Malaria Vaccine Initiative, Washington, DC, United States

LB-5226

Arginine enables the adaptive proline response to halofuginone in *P. falciparum*

Lola Fagbami¹, Amy A. Deik², Amanda K. Lukens², Clary B. Clish², Dyann F. Wirth³, Ralph Mazitschek⁴
¹Harvard Graduate School of Arts and Sciences, Cambridge, MA, United States, ²Broad Institute, Cambridge, MA, United States, ³Harvard T.H. Chan School of Public Health, Boston, MA, United States, ⁴Massachusetts General Hospital, Boston, MA, United States

Poster Session B
Late Breakers in Basic Sciences
Tuesday, October 30, Noon - 1:45 p.m.

LB-5227

Exploring the role of environmental and socio-political drivers of malaria incidence in El Oro province, Ecuador

Isabel Fletcher¹, Anna Stewart-Ibarra², Mercy Silva³, Efrain Beltran-Ayala⁴, Tania Ordonez⁵, Jefferson Adrian⁶, Kate Jones⁷, **Rachel Lowe¹**

¹*London School of Hygiene & Tropical Medicine, London, United Kingdom*, ²*Institute for Global Health and Translational Sciences, State University of New York Upstate Medical University, Syracuse, NY, United States*, ³*Hospital Teofilo Davila, Ministerio de Salud Pública, Machala, Ecuador*, ⁴*Universidad Técnica de Machala, Machala, Ecuador*, ⁵*Districto de Salud 07D02 del Ministerio de Salud Pública, Machala, Ecuador*, ⁶*Universidad Técnica Particular de Loja, Loja, Ecuador*, ⁷*Centre for Biodiversity and Environment Research, Department of Genetics, Evolution and Environment, University College London, London, United Kingdom*

LB-5228

Longitudinal analysis of *Plasmodium falciparum*-induced alterations in dendritic cell phenotype and function

Anton Götz¹, Mei San Tang², Maureen C. Ty², Charles Arama³, Aissata Ongoiba³, Didier Doumtabe³, Boubacar Traore³, P'ng Loke², Ana Rodriguez², Peter D. Crompton¹

¹*NIH/NIAID, Rockville, MD, United States*, ²*NYU School of Medicine, New York, NY, United States*, ³*International Center of Excellence in Research, University of Sciences, Technique, and Technology of Bamako, Bamako, Mali*

LB-5229

Use of the LQAS method to determine the reference level of certain performance indicators of the Malaria and Neglected Tropical Diseases project in the Sahel in 19 health districts of Mali

Yaya I. Coulibaly¹, Kueshivi Midodji ATSOUI¹, Housseini DOLO¹, Adama Y. BERTHE¹, Fanta N. KONIPO¹, Moussa B. SANGARE¹, Hadiza MAIGA¹, Siaka Y. COULIBALY¹, Salif S. DOUMBIA¹, Abdallah DIALLO¹, Michel E. COULIBALY¹, Lamine SOUMAORO¹, Boubacar DAOU¹, Klion D. Amy², Ogobara DOUMBO¹, Thomas B. NUTMAN²
¹*ICER-Mali, Bamako, Mali*, ²*NIH, Washington, WA, United States*

LB-5230

***Plasmodium* coinfections in *Anopheles* mosquitoes in Madagascar**

Micaela Finney, Sarah Zohdy
Auburn University, Auburn, AL, United States

LB-5231

Dissecting the role of plasmezin II and III in piperaquine resistant *P. falciparum* lines

Selina Bopp, Robert Summers, Breanna Walsh, Sarah K. Volkman, Dyann F. Wirth
Harvard T.H. Chan School of Public Health, Boston, MA, United States

LB-5232

Discovery of new drug leads for malaria chemoprevention

Tina Skinner-Adams¹, Andrew Riches², Gillian Fisher¹, Oliver Hutt², Jeremy Burrows³, Jack Ryan², **Katherine Andrews¹**

¹*Griffith University, Nathan, Australia*, ²*Commonwealth Scientific and Industrial Research Organization, Victoria, Australia*, ³*Medicines for Malaria Venture, Geneva, Switzerland*

LB-5233

Malaria prevention and treatment in migrant agricultural workers in Dangur district, Benishangul-Gumuz, Ethiopia: Social and behavioral aspects

Yehualashet Tedesse¹, Seth Irish², Sheleme Chibsa³, Sisay Dugassa⁴, Lorenz Lena⁵, Asfawesen Gebreyohannes¹, Hiwot Teka³, Hiwot Solomon⁶, Eshetu Gezahegn¹, Yonas Petros¹, Mesfin Haile¹, Mesfin Eshetu¹, **Matthew Murphy²**

¹*Private Health Sector Project, Abt Associates Inc., Addis Ababa, Ethiopia*, ²*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ³*U.S. Agency for International Development, Addis Ababa, Ethiopia*, ⁴*Aklilu Lemma Institute of Pathobiology, Addis Ababa, Ethiopia*, ⁵*London School of Hygiene and Tropical Medicine, London, United Kingdom*, ⁶*Disease Prevention and Control Directorate, Federal Ministry of Health, Addis Ababa, Ethiopia*

Poster Session B
Late Breakers in Basic Sciences
Tuesday, October 30, Noon - 1:45 p.m.

LB-5234

Production and evaluation of new Malaria seromarkers for the Peruvian Amazon

Katherine Garro¹, Pamela Rodríguez¹, Elizabeth Villasis¹, Beronica Infante¹, Gabriel Carrasco¹, Dionicia Gamboa², Katherine Torres¹
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LB-5235

PfRipr_5: a potent blood-stage malaria vaccine candidate antigen

Hikaru Nagaoka¹, Bernard N. Kanoi¹, Edward H. Ntege¹, Akihisa Fukushima², Takafumi Tsuboi¹, Eizo Takashima¹
¹Division of Malaria Research, Proteo-Science Center, Ehime University, Matsuyama, Ehime, Japan,
²Sumitomo Dainippon Pharma Co.,Ltd, Tokyo, Japan

LB-5236

Plasmodium falciparum haplotype sharing between human and malaria vectors in an endemic region of western Kenya: a preliminary report

ANDREW A. OBALA¹, KELSEY M. SUMNER², ELIZABETH FREEDMAN³, LUCY ABEL⁴, JUDY MANGENI⁵, STEVE M. TAYLOR³, WENDY PRUDHOMME O'MEARA⁶
¹School of Medicine, College of Health Sciences, Moi University, Eldoret, Kenya, ²Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC, United States, ³Duke Global Health Institute, Duke University School of Medicine, Durham, NC, United States, ⁴Academic Model Providing Access to Health Care, Eldoret, Kenya, ⁵School of Nursing, College of Health Sciences, Moi University, Eldoret, Kenya, ⁶Duke Global Health Institute, Duke University School of Medicine, Durham, NC, United States; School of Public Health, College of Health Sciences, Moi University, Eldoret, Kenya

LB-5237

Malaria Testing, Treating and Tracking Policy Implementation in Angola: a retrospective cross-sectional study to assess the progress achieved after 4 years of program implementation

SERGIO LOPES¹, Rukaaka Mugizi¹, João Pires², Fernando David³, José Martins⁴, Pedro Rafael Dimbu⁴, Filomeno Fortes⁴, Joana Martinho do Rosário³, Richard Allan¹

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LB-5238

Evidence of low community level protection from malaria transmission despite high LLIN-coverage in a village of Burkina Faso

Eleonora Perugini¹, Marco Pombi¹, Wamdaogo M. Guelbeogo², Maria Calzetta¹, Verena Pichler¹, Hilary Ranson¹, N'Fale Sagnon², Alessandra della Torre¹
¹University of Rome SAPIENZA, Rome, Italy, ²Centre National de Recherche et de Formation sur le Paludisme, Ouagadougou, Burkina Faso

LB-5239

B cell and T follicular helper cell phenotypes during acute malaria

Maria S. Mackroth¹, Lea Kaminski², Michael Ramharter¹, Thomas Jacobs²
¹University Hospital Hamburg-Eppendorf, Hamburg, Germany, ²Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany

LB-5240

Regional collaboration and planning to support elimination - update on the MOSASWA Initiative

Patrick Devanand Moonasar¹, Baltazar Candrinho², Quinton Dlamini³, Bradley Didier⁴, Natasha Morris⁵, Francisco Saute⁶, Rajendra Maharaj⁵
¹Malaria, Other Vector-borne and Zoonotic Disease Directorate, National Department of Health, South Africa; School of Public Health and Health Systems, University of Pretoria, South Africa, Pretoria, South Africa, ²National Malaria Control Programme, Ministério da Saúde, Maputo, Mozambique, ³National Malaria Programme, Ministry of Health, Kingdom of Eswatini, Mbabane, Swaziland, ⁴Clinton Health Access Initiative, Mbabane, Swaziland, ⁵South Africa Medical Research Council, Durban, South Africa, ⁶Centro de investigação de Saúde de Manhiça, Mozambique, Manhiça, Mozambique

Poster Session B
Late Breakers in Basic Sciences
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LB-5241

The implementation and the impact of adapting technologies to support residual malaria transmission: a case study in Unguja, Zanzibar

Dickson Msaky¹, Revocatus Musiba¹, Kimberly Mihayo¹, Juma Mucha², Khamis Haji², Brian B. Tarimo¹, **Samson S. Kiware¹**

¹Ifakara Health Institute, Dar es salaam, United Republic of Tanzania, ²Zanzibar Malaria Elimination Program, Unguja, United Republic of Tanzania

LB-5242

The adaptive landscape of gametocyte expressed orthologous genes in *Plasmodium falciparum* and *Plasmodium vivax*

Michael W. Vandewege, M. Andreina Pacheco, **Ananias A. Escalante**
Biology Department, Institute for Genomics and Evolutionary Medicine, Temple University, Philadelphia, PA, United States

LB-5243

Comparison of cytokine levels in Malawian children presenting with either uncomplicated or cerebral malaria

Visopo C. Harawa¹, Madi Njie², Anne Kessler³, Kami Kim⁴, Anthony Jaworowski⁵, Terrie Taylor⁶, Wilson L. Mandala⁷, Karl B. Seydel⁶, Stephen J. Rogerson²
¹Malawi-Liverpool Wellcome Trust Clinical Research Programme, Blantyre, Malawi, ²University of Melbourne, Melbourne, Australia, ³Albert Einstein College of Medicine, New York, NY, United States, ⁴University of South Florida, Tampa, FL, United States, ⁵RMIT University, Melbourne, Australia, ⁶Michigan State University, East Lansing, MI, United States, ⁷Malawi University of Science and Technology, Thyolo, Malawi

LB-5244

Additional blood-feeding after *Plasmodium* infection reduces malaria parasite survival in the mosquito host

Rebekah Reynolds, Hyeogsun Kwon, Ryan Smith
Iowa State University, Ames, IA, United States

LB-5245

Novel mutations in the *Plasmodium falciparum* digestive vacuole-resident membrane protein PfCRT mediate resistance to the first-line antimalarial drug piperaquine

SATISH K. DHINGRA¹, Sachel Mok¹, Tomas Yeo¹, Leila Ross¹, Benoit Witkowski², Frederic Ariey³, Didier Menard⁴, David A. Fidock¹

¹Columbia University Medical Center, New York, NY, United States, ²Pasteur Institute in Cambodia, Phnom Penh, Cambodia, ³Institut Cochin, Paris, France, ⁴Pasteur Institute, Paris, France

LB-5246

Effects of ambient temperature and humidity on *An. gambiae* activity around an occupied bed net

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

LB-5247

Cytoadherence of *Plasmodium vivax*-infected erythrocytes to monocytes

Chanaki Amaratunga¹, Sokunthea Sreng², Sivanna Mao³, Seila Suon², Rick M. Fairhurst¹

¹Laboratory of Malaria and Vector Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States,

²National Center for Parasitology, Entomology, and Malaria Control, Phnom Penh, Cambodia, ³Sampov Meas Referral Hospital, Pursat, Cambodia

LB-5248

Effects of biting time on vector competence of malaria mosquitoes and the implications for behavioral resistance

Eunho Suh, Marissa K. Grossman, Jessica L. Waite, Matthew B. Thomas
Penn State University, University Park, PA, United States

Poster Session B
Late Breakers in Basic Sciences
Tuesday, October 30, Noon - 1:45 p.m.

LB-5249

Evolution and genetic diversity of the *k13* encoding gene associated to artemisinin-resistance in *Plasmodium falciparum*

M. Andreina Pacheco¹, Esha R. Kadakia¹, Zainab Chaudhary¹, Douglas J. Perkins², Julia Kelley³, Shashidhar Ravishankar⁴, Eldin Talundzic⁵, Venkatachalam Udhayakumar⁵, Ananias A. Escalante¹

¹Biology Department, Institute for Genomics and Evolutionary Medicine, Temple University, Philadelphia, PA, United States, ²Center for Global Health, University of New Mexico Health Sciences Center, Albuquerque, NM, United States, ³Atlanta Research and Education Foundation, VAMC, Atlanta, GA, United States, ⁴School of Biological Sciences, Georgia Institute of Technology, Atlanta, GA, United States, ⁵Malaria Branch, Division of Parasitic Diseases and Malaria, Center for Global Health, Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5250

Identification and Validation of ABCI3 As a Novel Antimalarial Resistance Mediator

James Murithi¹, Manu Vanaerschot¹, Kelly Rubiano¹, Olivia Coburn-Flynn¹, Eva Istvan², Virginia Franco³, Elizabeth Winzeler⁴, Francisco Javier-Gamo³, Daniel Goldberg², David Fidock¹

¹CUIMC, NYC, NY, United States, ²Washington University, St. Louis, MO, United States, ³GSK, Madrid, Spain, ⁴UCSD, San Diego, CA, United States

LB-5251

Microfluidic Assessment of Red Blood Cell Deformability and Microvascular Occlusion Risk in Sickle Cell Disease and Malaria

Yuncheng Man, Erdem Kucukal, Quentin D. Watson, Jürgen Bosch, Jane A. Little, Peter A. Zimmerman, **Umut A. Gurkan**
Case Western Reserve University, Cleveland, OH, United States

LB-5252

Monitoring of Malaria RDTs quality in Public Sector Health Facilities in Six Geopolitical Zones of Nigeria

Genevieve N. Eke¹, Sonachi Ezeiru¹, Diwe Ekweremadu¹, Chukwudi Uche¹, Victoria Erinle¹, Victor Adebayo¹, Bala Mohammed Audu², Wellington A. Oyibo³

¹Catholic Relief Services, Abuja, Nigeria, ²National

*Malaria elimination Programme, Abuja, Nigeria,
ANDI Centre of excellence for Malaria Diagnosis,
College of Medicine, University of Lagos, Lagos,
Nigeria*

LB-5253

Engineering viral-like particles as an antigenic platform for a Pfs47-based malaria transmission blocking vaccine

Adeline Williams, Gaspar Canepa, Lampouguin Douti, **Alvaro Molina-Cruz**, Carolina Barillas-Mury
NIH, Rockville, MD, United States

LB-5254

Factors Associated with Healthcare-Associated Respiratory Illness among Adults in Tertiary Care Public Hospitals- 2016-2017, Bangladesh

Syeda Mah-E-Muneer¹, Probir Kumar Ghosh¹, Md. Zakiul Hassan¹, Fahmida Chowdhury¹, Mejbah Uddin Bhuiyan², Mahmudur Rahman¹, Emily S. Gurley³, Shua J. Chai⁴

¹icddr,b, Dhaka, Bangladesh, ²The University of Western Australia, Perth, Australia, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5255

Risk factors for Acute and Febrile Respiratory Infections (ARI/FRI) in A Semi-Closed Military Setting A Case-Control Study

Aysha Farwin

Saw Swee Hock School of Public Health, Singapore, Singapore

LB-5256

***Trypanosoma cruzi* in rodents trapped across post Katrina New Orleans**

Bruno M. Ghersi¹, Anna C. Peterson¹, Henry Pronovost², Asha Dash², Hannah Schwartzenburg², Anna Sanford², Samantha Hobbs², Ardem Elmayan², Weihong Tu², Claudia Riegel³, Claudia Herrera², Michael J. Blum¹

¹University of Tennessee, Knoxville, TN, United States, ²Tulane University, New Orleans, LA, United States, ³New Orleans Mosquito, Termite and Rodent Control Board, New Orleans, LA, United States

Poster Session B
Late Breakers in Basic Sciences
Tuesday, October 30, Noon - 1:45 p.m.

LB-5257

The immunological interplay between *Giardia duodenalis* and *Toxoplasma gondii* during murine co-infection

CAMILA H. COELHO¹, ALINE SARDINHA-SILVA², MARC Y. FINK³, DIEGO L. COSTA⁴, PEDRO H. GAZZINELLI-GUIMARAES⁵, MICHAEL E. GRIGG⁶, STEVEN M. SINGER³

¹LMIV/NIAID/NIH, Rockville, MD, United States, ²Molecular Parasitology Section LPD/NIAID/NIH, Bethesda, MD, United States, ³Georgetown University, Department of Biology, Washington, DC, United States, ⁴Immunobiology Section LPD/NIAID/NIH, Bethesda, MD, United States, ⁵Helminth Immunology Section - LPD/NIAID/NIH, Bethesda, MD, United States, ⁶LPD/NIAID/NIH, Bethesda, MD, United States

LB-5258

ARMD Mutagenesis in recent *Plasmodium falciparum* isolates from Cambodia and India

John White¹, SooNee Tan¹, Anjali Mascarenhas², Ligia Pereira², Rashmi Dash², Shiva Kumar¹, Devaraja Mudeppa¹, Jordan Rixon¹, Yifan Lu¹, Patricia Galvez¹, Jayashri Walke², Edwin Gomes², Laura Chery¹, Pradipsinh Rathod¹

¹University of Washington, Seattle, WA, United States, ²Goa Medical College and Hospital, Bambolim, Goa, India

LB-5259

Validation of EdU incorporation as an endpoint for monitoring growth of the brain-eating amoebae *Naegleria fowleri*

Emma Troth, Dennis E. Kyle
University of Georgia, Athens, GA, United States

LB-5260

Gene silencing in *Cryptosporidium*: A rapid approach to identify novel targets for drug development

Alejandro Castellanos-Gonzalez, Samantha Nava, Kayla Fishbeck, Griselle Traverso-Martinez, Clinton A. White Jr
UTMB, Galveston Tx, TX, United States

LB-5261

Using a novel phenotype of praziquantel to identify a schistocidal compound targeting flatworm voltage operated calcium channels

John D. Chan

Medical College of Wisconsin, Milwaukee, WI, United States

LB-5262

Biomechanical interactions of *Schistosoma mansoni* eggs with vascular endothelial cells

Yi-Ting Yeh¹, Danielle E. Skinner², Brian M. Suzuki², Youjeong Na², James H. McKerrow², Juan C. Alamo¹, Conor R. Caffrey²

¹Department of Mechanical and Aerospace Engineering, Jacob School of Engineering, University of California, San Diego, La Jolla, CA, United States,

²Center for Discovery & Innovation in Parasitic Diseases, Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California, San Diego, La Jolla, CA, United States

LB-5263

Progress towards developing functional genomic tools to further investigate the roles of the *Schistosoma mansoni* cercarial elastase (SmCE) expanded gene family

Danielle E. Skinner, Brian M. Suzuki, Youjeong Na, James H. McKerrow
Center for Discovery & Innovation in Parasitic Diseases, Skaggs School of Pharmacy and Pharmaceutical Sciences, University of California, San Diego, La Jolla, CA, United States

LB-5264

Discovery of Zika Virus-Specific Epitopes with an Arbovirus Protein Microarray

David Camerini, Xiaowu Liang
Antigen Discovery Inc., Irvine, CA, United States

LB-5265

Adaptive immune memory response abrogates antibody boosting following vaccination

Eugenia Ong¹, Esther Gan¹, Ruklanthi de Alwis¹, Limin Wijaya², Xin Mei Ong¹, Menglan Zhang¹, Abigail Wong², Yin Bun Cheung¹, Raphaël Zellweger¹, Eng Eong Ooi¹, Jenny Low²

¹Duke NUS Medical School, Singapore, Singapore,

²Singapore General Hospital, Singapore, Singapore

Poster Session B
Late Breakers in Basic Sciences
Tuesday, October 30, Noon - 1:45 p.m.

LB-5266

Reversion to ancestral Zika virus NS1 residues increases competence of *Ae. albopictus*

Alexander Ciota

Wadsworth Center, NYS Dept of Health, Slingerlands, NY, United States

LB-5267

Ebola Virus Testing of Cervical Secretions of Women surviving the West African Outbreak

Amy J. Loftis¹, Saturday G. Quellie², Kelly Chason¹, Emmanuel Sumo², Mason Toukolon², Heinzfried Ellerbrok³, Sam Tozay⁴, Jerry Brown⁴, David A. Wohl¹, William A. Fischer II¹

¹*University of North Carolina at Chapel Hill, Chapel Hill, NC, United States*, ²*Sheba Hospital, Suakoko, Liberia*, ³*Robert Koch Institute, Berlin, Germany*, ⁴*Eternal Love Winning Africa Hospital, Monrovia, Liberia*

LB-5268

Ex vivo profiling of innate immune responses to NIAID LATV DENV vaccine candidate in primary human cells

Jessica Pintado Silva

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

LB-5269

Lack of *Aedes aegypti* to transmit Rift Valley fever virus transovarially

Nicholas A. Bergren, Erin M. Borland, Daniel Hartman, Rebekah C. Kading

Colorado State University, Fort Collins, CO, United States

LB-5270

Heterologous flavivirus immunity impacts Zika virus pathogenesis in a mouse model of infection

Mariah Hassert, James D. Brien, Amelia K. Pinto *Saint Louis University, St. Louis, MO, United States*

LB-5271

Proposal for reclassification of Mirim virus, Orthobunyavirus, Peribunyaviridae, as an unclassified virus

Valéria L. Carvalho, Daniele Barbosa Medeiros, Márcio Roberto Teixeira Nunes, Sandro Patroca da Silva, Clayton Pereira de Lima, Jedson Ferreira Cardoso, Livia Caricio Martins, Pedro Fernando da Costa Vasconcelos *Evandro Chagas Institute, Belém, Brazil*

LB-5272

Molecular basis of Flavivirus and host-gene expression machinery interactions

Marine Petit, Ariana Nagainis, Shahab Khan, Priya Shah *UC Davis, Davis, CA, United States*

LB-5273

Lassa fever in post-Ebola Sierra Leone

JEFFREY G. SHAFFER¹, John S. Schieffelin¹, Donald S. Grant², Augustine Goba², Foday Alhasan², Nicole Roberts¹, Robert F. Garry¹

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Poster Session 77

Poster Session B

Late Breakers in Clinical and Applied Sciences

Tuesday, October 30, Noon - 1:45 p.m.

Marriott - Grand Ballroom (3rd Floor)

Arthropods/Entomology	#LB-5274 through LB-5281
Cestodes	#LB-5282 through LB-5284
Global Health.....	#LB-5285 through LB-5314
Helminths - Nematodes.....	#LB-5315 through LB-5327
Integrated Control Measures for Neglected Tropical Diseases	#LB-5328 through LB-5339
Malaria	#LB-5340 through LB-5377
One Health: Interface of Human Health/Animal Diseases	#LB-5378 through LB-5382
Malaria	#LB-5383 through LB-5395

LB-5274

Impact of aerial ultra-low volume application of insecticide for the control of *Aedes aegypti* in an urban area of Mexico

Fabian Correa-Morales¹, Felipe Dzul-Manzanilla¹, Wilbert Bibiano-Marín², Jose Vadillo-Sánchez², Anuar Medina-Barreiro², Armando Elizondo-Quiroga³, Audrey Lenhart⁴, **Gonzalo Vazquez Prokopeč⁵**, Pablo Manrique-Saide²

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LB-5275

Spatial-Temporal Trend and Climatic and Other Geospatial Risk Factors for Scrub Typhus in Thailand

Nutthanun Auysawasdi¹, Piyada Linsuwanon¹, Elizabeth Wanja¹, Sirima Wongwairot¹, Surachai Leepitakrat¹, Chawin Limsuwan¹, Taweesak Monkanna¹, Allen Richards², Silas Davidson¹
¹Department of Entomology, United States Medical Directorate Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ²Naval Medical Research Center, Silver Spring, MD, United States

LB-5276

Vector mapping on the Bijagos Archipelago of Guinea-Bissau

Thomas H. Ant¹, Erin Foley¹, Adriana Goncalves¹, Scott Tytheridge¹, Colin Johnson¹, Muna Affara², Chris Grundy¹, David Mabey¹, Anna Last¹, James G. Logan¹

¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²MRC Unit, The Gambia, Banjul, Gambia

LB-5277

Arachnid Envenomations: A Systematic Review of Envenomation Prevention Measures, Therapeutics, and Antivenom Accessibility

Avinash N. Mukkala¹, Christian Lecce², Aisha Khatib¹, Michael Klowak³, Priyanka Challa¹, Tianna Chong-Kit⁴, Eric Shao⁵, Jason Kwan³, Andrea K. Boggild¹

¹University of Toronto, Toronto, ON, Canada,

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⁴University of Waterloo, Waterloo, ON, Canada,

⁵Western University, London, ON, Canada

Poster Session B
Late Breakers in Clinical and Applied Sciences
Tuesday, October 30, Noon - 1:45 p.m.

LB-5278

Detection of human pathogens in *Ixodes scapularis* collected from Minnesota - 2018

Harry Langston¹, Lynne M. Sloan², Jenna K. Bjork³, David F. Neitzel³, Bobbi S. Pritt²

¹*London School of Hygiene & Tropical Medicine, Bloomsbury, United Kingdom*, ²*Mayo Clinic, Rochester, MN, United States*, ³*Minnesota Department of Health, St. Paul, MN, United States*

LB-5279

High Densities of Adult *Aedes aegypti* Mosquitoes during 2017 Zika Outbreak in Yurimaguas, Peru

Helvio Astete¹, Sarah A. Jenkins¹, Wesley Campbell¹, Julia Sonia Ampuero¹, Tatiana Quevedo¹, Crystyan Siles¹, Amy C. Morrison¹, Joel Montgomery², Christopher M. Mores¹
¹*NAMRU-6, Iquitos, Peru*, ²*EISL Branch, Division of Global Health Protection, Center for Global Health, CDC, Atlanta, GA, United States*

LB-5280

Metagenomic analysis of *Anopheles gambiae* 1000 Genome (Ag1000G) dataset

Andrzej Pastusiak¹, **Michael R. Reddy**¹, Isaiah Hoyer¹, James Pippas², Giovanna Carpi³, Douglas E. Norris³, Jonathan Carlson¹, Ethan Jackson¹
¹*Microsoft, Redmond, WA, United States*, ²*University of Pittsburgh, Pittsburgh, PA, United States*, ³*Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States*

LB-5281

Optimizing the CDC bottle bioassay for susceptibility testing of clothianidin

Kazunori Ohashi¹, Natsumi Sakamoto¹, Yousif E. Himeidan², John R. Lucas³, Norihisa Sakamoto¹, Yoshinori Shono¹
¹*Sumitomo Chemical Co. Ltd., Takarazuka, Japan*, ²*Vector Health International, Arusha, United Republic of Tanzania*, ³*John Lucas Consulting Services, London, United Kingdom*

LB-5282

Imaging and serum enzyme-linked immunoelectrotransfer blot (EITB) profile correlations among 623 Indian patients with Neurocysticercosis (NCC)

Ranjith K. Moorthy¹, Prabhakaran Vasudevan¹, Anna Oommen¹, Michael Anderson², Vedantam Rajsekhar¹, Helene Carabin²

¹*Christian Medical College, Vellore, India*, ²*The University of Oklahoma Health Sciences Center, Oklahoma City, OK, United States*

LB-5283

A novel, highly repetitive *T.sodium*-specific DNA sequence is a reliable biomarker for subarachnoid neurocysticercosis

Elise M. O'Connell, Eric Dahlstrom, Theodore Nash, Thomas B. Nutman
National Institutes of Health, Bethesda, MD, United States

LB-5284

Prevalence of Intrahousehold Aggregation of Human Cystic Echinococcosis in a Hyperendemic Community from Peruvian Highlands

Percy Soto-Becerra¹, Raul Enriquez¹, Cesar Sedano¹, Karina Bardales-Ortiz¹, Luis Tello², Hector H. Garcia³, **Saul J. Santivanez**⁴

¹*Universidad Peruana Cayetano Heredia, Lima, Peru*, ²*Instituto Peruano de Parasitologia Clinica y Experimental, Lima, Peru*, ³*Center for Global Health - Tumbes and Department of Microbiology, Universidad Peruana Cayetano Heredia, and Cysticercosis Unit, Instituto Nacional de Ciencias Neurologicas, Lima, Peru*, ⁴*Lima, Peru, Universidad Peruana Cayetano Heredia, and Instituto Peruano de Parasitologia Clinica y Experimental, Lima, Peru*

LB-5285

Establishment of an Electronic Integrated Disease Surveillance and Response System in Sierra Leone

Brigette L. Gleason¹, Ansumana Kamara¹, Nelson Clemens², Les de Wit², David K. Kargbo³

¹*U.S. Centers for Disease Control and Prevention, Freetown, Sierra Leone*, ²*eHealth Africa, Freetown, Sierra Leone*, ³*Ministry of Health and Sanitation, Freetown, Sierra Leone*

Poster Session B
Late Breakers in Clinical and Applied Sciences
Tuesday, October 30, Noon - 1:45 p.m.

LB-5286

Use of screening technologies (STs) for the detection of substandard and falsified medicines

Stephen Kimatu, Hariram Ramanathan, Daniel Bempong
United States Pharmacopeia(USP), Rockville, MD, United States

LB-5287

Monitoring Different Social Media Platforms to Report Unplanned School Closures Due to Wildfires in California, October & December 2017

Brittany M. Buchanan¹, Haley I. Evans¹, Emily A. Duncan¹, Jingjing Yin¹, Xiaolu Zhou¹, Zion Tsz Ho Tse², Bishwa B. Adhikari³, Martin I. Meltzer³, Gerardo Chowell⁴, **Isaac Chun-Hai Fung¹**
¹*Georgia Southern University, Statesboro, GA, United States*, ²*The University of Georgia, Athens, GA, United States*, ³*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ⁴*Georgia State University, Atlanta, GA, United States*

LB-5288

An examination of attitudes associated with Zika virus infection and personal protective technologies (PPT) in high-risk individuals in Colombia

Grace M. Power¹, Thomas Ant¹, Robert Jones¹, Gloria-Isabel Jaramillo², Carolina Mendoza³, James G. Logan¹
¹*London School of Hygiene and Tropical Medicine, London, United Kingdom*, ²*School of Medicine, Universidad Cooperativa de Colombia, Villavicencio, Colombia*, ³*Facultad de Salud, Universidad Del Valle, Cali, Colombia*

LB-5289

Assessment of LyseNow® Perforated Cards on Preservation of Dengue Virus RNA in Whole Blood

Cheng-Rei R. Lee
HJF/NMRC, Silver Spring, MD, United States

LB-5290

Vaccination Campaign Coverage among Displaced Rohingyas, Cox's Bazar, Bangladesh, 2018

Leora R. Feldstein¹, Sarah D. Bennett¹, Concepcion Estivariz¹, Mallick Masum Billah², Gretchen Cooley¹, Lauren Weil¹, Kathleen A. Wannemuehler¹, Rajendra Bohara³, Maya Vandenent⁴, Jucy Merina Adhikari⁴, Mainul Hasan⁵, M Salim Uzzaman², Saifuddin Akhtar⁵, Andreas Hasman⁶, Stephanie Doan⁷, Laura Conklin¹, Daniel Ehlman¹, A. Alamgir², Meerjady Sabrina Flora²

¹*Centers for Disease Control and Prevention, Atlanta, GA, United States*, ²*Institute of Epidemiology, Disease Control and Research, Dhaka, Bangladesh*, ³*World Health Organization, Dhaka, Bangladesh*, ⁴*Unicef, Dhaka, Bangladesh*, ⁵*Unicef, Cox's Bazar, Bangladesh*, ⁶*Unicef, Kathmandu, Nepal*, ⁷*Centers for Disease Control and Prevention, Dhaka, Bangladesh*

LB-5291

Management of Common Intestinal Parasites in Pregnancy: A Systematic Review

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LB-5292

Reconstructing nosocomial outbreaks using whole genome sequences and patient ward data

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LB-5293

Projection of the end of the Zika virus epidemic in Latin America and the Caribbean: a modelling analysis

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LB-5294

Epidemiological Update on Fever in Returning Travelers to Toronto from the 'Rapid Assessment of Febrile Travelers' (RAFT) Programme

Aisha Khatib¹, Michael Klowak², David Harris¹, Emma Hagopian¹, Farah Jazuli², Ruwandi Kariyawasam¹, Rachel Lau³, Stefanie Klowak⁴, Andrea K. Boggild¹
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LB-5295

Birth Outcomes and Defects in a Prospective Cohort Study of Zika during Pregnancy in Coatepeque, Guatemala

John P. McCracken¹, Andres Espinosa-Bode², Terrence Lo³, Nevis Nunez⁴, Laura Grajeda¹, Sayury Pineda¹, Victoria J. Hicks¹, Maria Renee Lopez¹, Mariangeli Freitas², Georgina Peacock⁵, Flavio Melo⁶, Ana Gomez⁴, Abraham Perez⁴, Celia Cordon-Rosales¹, Olga Henao³
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LB-5296

The Surgical Burden of Helminthiasis: Indications for Organ Transplantation

Gabrielle Rieth
Case Western Reserve University, Cleveland, OH, United States

LB-5297

Mapping oral rehydration therapy for children with diarrhea in Peru, 2000 - 2016

Kirsten Wiens
University of Washington, Seattle, WA, United States

LB-5298

Impact of Food Security, Dietary Guidelines, Diabetes, and Hypertension on Ischemic Heart Disease in the Dominican Republic

Austin J. Marette, Misha Fotoohi, Rachel Rauber, Molly Svendsen, Stephanie Wright
University of Nevada, Reno School of Medicine, Reno, NV, United States

LB-5299

Health facility cold chain capacity for administering vaccines in the Democratic Republic of Congo

Angie Ghanem¹, Nicole Hoff¹, Cyrus Sinai¹, Kamy Musene², Patrick Mukadi³, Guillaume Ngoie Mwamba⁴, Benoit Kebella-Illunga⁵, Emile Okitolonda², Anne Rimoin¹

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LB-5300

Six-year impact evaluation of the national school-based deworming programme in Kenya

Charles Mwandawiro¹, Collins Okoyo¹, Elses Simiyu¹, Sammy M. Njenga¹, Katherine Williams², Grace Hollister³, Suzy J. Campbell³
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Poster Session B
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LB-5301

Solar Oxygen is a Cost-Effective Solution for Treatment of Hypoxemia in Low Resource Settings

Yiming Huang¹, Qaasim Mian², Andrea Conroy³, Robert O. Opoka⁴, Sophie Namasopo⁵, Michael T. Hawkes⁶
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LB-5302

Risk factors for *Escherichia coli* bacteremia among adolescents and adults in northern Tanzania

Deng B. Madut¹, Mathew P. Rubach¹, Nathaniel H. Kalengo², Manuela Carugati¹, Michael J. Maze³, Anne B. Morrissey¹, Blandina T. Mmbaga², Bingileki F. Lwezaula⁴, Kajiru G. Kilonzo², John A. Crump³
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LB-5303

Mapping the global distribution of Buruli ulcer through an evidence consensus approach

Hope N. Simpson¹, Kebede Deribe², Ernest N. Tabah³, Adebayo Peters⁴, Edwin O. Ampadu⁵, Michael Frimpong⁶, Richard K. Phillips⁶, Paul Saunderson⁷, Rachel Pullan¹, Jorge Cano¹
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LB-5304

Improving the quality of services for sick children at patent and proprietary medicine vendors in two states in Nigeria

Kate E. Gilroy¹, Abimbola Olayemi², Adedeji Onayade³, Olujide Arike³, Miranda Gyanggyang², Felix Oderoha², Chinwe Nweze², Olusegun Afolabi³, Abimbola Phillips³, Michel Pacque¹
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LB-5305

Addressing urban slum health challenges in the 21st century: Can a comprehensive health and environmental intervention package make an impact?

Allen Guy Ross, Firdausi Qadri, Khalequzzaman Zaman, John David Clemens
icddr,b, Dhaka, Bangladesh

LB-5306

Structural weaknesses and unofficial partnerships: A network analysis of global health financing 1990-2017

Cristin A. Fergus
London School of Economics, London, United Kingdom

LB-5307

Infectious aetiologies of non-malaria fever causes in areas with reduced malaria transmission in Senegal

Roger C. TINE¹, Leon A. Ndiaye¹, Hélène Broutin², Khadime Sylla¹, Doudou Sow¹, Oumar Gaye¹, Babacar Faye¹
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LB-5308

Factors associated with in-hospital mortality among children <5 years admitted with acute febrile illness in Kenya

Eric D. Ng'eno¹, Doris Marwanga², Peninah Munyua³, Eric Osoro¹, Godfrey Bigogo², Victor Bandika⁴, Paul Ettau⁵, John Wagacha Burton⁶, John Kiogora⁷, Lyndah Makayotto⁸, Amwayi S. Anyangu⁸, Joel M. Montgomery⁹, Marc-Alain Widdowson³, Jennifer R. Verani³

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LB-5309

Yaws - Results of the global WHO survey 2014-2016

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LB-5310

Genomic Characterization of the Ebolavirus strains causing the outbreaks in Bikoro and Beni, Democratic Republic of Congo, 2018

Placide Mbala¹, Catherine Pratt², Michael R. Wiley², Sheila Makiala-Mandanda¹, Amuri Aziza¹, Nicholas Di Paola², Moussa M. Diagne³, Joseph A. Chitty², Mamadou Diop³, Ahidjo Ayouba⁴, Nicole Vidal⁴, Ousmane Faye³, Stomy Karhemere¹, Aaron Aruna⁵, Justus Nsio⁵, Felix Mulangu⁵, Daniel Mukadi⁶, Patrick Mukadi¹, John Kombe⁵, Anastasie Mulumba⁷, Sophie Duraffour⁷, Jacques Likofata⁸, Elisabeth Pukuta¹, Steve Gross⁹, Gary Schroth⁹, Eric Delaporte⁴, Mariano Sanchez-Lockhart², Martine Peeters⁴, Jean-Jacques Muyembe¹, Amadou A. Sall³, Gustavo Palacios², Steve Ahuka-Mundeke¹

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Kinshasa, Democratic Republic of the Congo, ⁷Bureau OMS Représentation de la DRC, Kinshasa, Democratic Republic of the Congo, ⁸Laboratoire Provincial de Mbandaka, Mbandaka, Democratic Republic of the Congo, ⁹Illumina, San Diego, CA, United States

LB-5311

Computational Modeling of Emerging Vector-borne Diseases in the Americas

JP Glutting, Thananya Saksuriyongse, Narges Dorratoltaj

AIR Worldwide, Boston, MA, United States

LB-5312

Unresolved Splenomegaly among Congolese Refugees after Resettlement in the United States – Multiple States, 2018

Laura D. Zambrano¹, Olivia Samson¹, Christina Phares¹, Emily Jentes¹, Michelle Weinberg¹, Matthew Goers¹, S. Patrick Kachur¹, Robert McDonald¹, Bozena Morawski¹, Henry Njuguna¹, Yasser Bakhsh¹, Rebecca Laws¹, Corey Peak¹, Sally Ann Iverson¹, Carla Bezold¹, Roberta Horth¹, Hayder Alkhenf², Susan Miller³, Michael Kacka⁴, Jun Yang³, Nomana Khan¹, Margaret Mortimer⁵, Abby Davids⁵, William Stauffer⁶, Nina Marano¹

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LB-5313

A qualitative study of knowledge regarding Zika virus knowledge and attitudes and acceptability towards future vaccine among primary care physicians in Costa Rica

Sabrina Acosta Egea¹, Morgan Stafford², María del Carmen García González¹, Avinash K. Shetty²

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LB-5314

Single-, multiple-pathogen, and no pathogen detected reports in cases of acquired diarrhea among U.S. Military and Western travelers (Global Travelers' Diarrhea Study)

Hayley Ashbaugh¹, June M. Early², Mark P. Simons³, Paul C. Graf⁴, Mark S. Riddle⁵, Brett E. Swierczewski⁶

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LB-5315

IgG4 antibodies from filarial asymptomatic individuals inhibit IgG1/IgG2- mediated complement activation in a Fc-Fc dependent mechanism

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LB-5316

Model-predicted impact of sampling strategies on soil-transmitted helminths morbidity outcomes

Federica Giardina¹, Luc Coffeng¹, Sam Farrell², Carolin Vegvari², Marleen Werkman², James Truscott², Roy Anderson², Sake de Vlas¹

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LB-5317

Have soil-transmitted helminths been eliminated in Japan? Targeted prevalence survey using highly sensitive and specific multi-parallel real-time PCR

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College, Northampton, MA, United States, ³University of Washington, Seattle, WA, United States

LB-5318

Comparison of multi-parallel quantitative PCR and Kato-Katz for detection of soil-transmitted helminths in rural Bangladesh

Jade Benjamin-Chung¹, Nils Pilotte², Ayse Ercumen¹, Benjamin F. Arnold¹, Sarker Masud Parvez³, Mahbubur Rahman³, Alan E. Hubbard¹, Rashidul Haque³, Stephen P. Luby⁴, Steven Williams², John M. Colford¹

¹University of California, Berkeley, Berkeley, CA, United States, ²Smith College, Northampton, MA, United States, ³International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh, ⁴Stanford University, Stanford, CA, United States

LB-5319

Developing deep amplicon sequencing assays to screen for Single Nucleotide Polymorphisms in beta-tubulin genes potentially associated with benzimidazole resistance in human soil transmitted helminths

Abhinaya Venkatesan¹, Russell Avramenko¹, James Wasmuth¹, Piet Cools², Bruno Levecke², John Gillear¹

¹University of Calgary, Calgary, AB, Canada, ²University of Ghent, Gent, Belgium

LB-5320

Live-Attenuated Hookworm Vaccination in Humans: Interim Results of the EVRA-Hookworm Trial

Paul R. Chapman¹, Paul Giacomin², Stacey Llewellyn¹, Christian Engwerda¹, Alex Loukas², James McCarthy¹

¹Queensland Institute of Medical Research - Berghofer, Herston, Australia, ²Australian Institute of Tropical Health and Medicine, Cairns, Australia

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LB-5321

Heterogeneity in transmission intensity (R_0) of hookworm infection within and between clusters in the Tumikia study - can socioeconomic and environmental factors account for R_0 variability?

Alison K. Ower¹, James Truscott¹, Katherine Halliday², William Oswald², Paul Gichuki³, Carlos Mcharo³, Simon Brooker⁴, Sammy Njenga³, Charles Mwandariwo³, Rachel Pullan², Roy M. Anderson¹
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LB-5322

Variability in Daily Limb Volume among Patients with Filarial Lymphedema in Sri Lanka

Celia Zhou¹, Upeksha Rathnapala², Lalindi De Silva², Channa Yahathugoda², Mirani Weerasooriya², Michael Weiler³, Ramakrishna Rao⁴, **Philip Budge**⁴
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LB-5323

Using an inactivated soil bacterium to kill parasitic nematodes

Hanchen Li¹, Yan Hu¹, David Gazzola¹, Tasia Kellogg¹, Kelly Flanagan¹, Ambily Abraham¹, Ernesto Soto-Villatoro¹, Martin K. Nielsen², Anne Zajac³, Joseph F. Urban⁴, Katherine Petersson⁵, Gary ostroff¹, Raffi Aroian¹
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LB-5324

Skin Snip Sensitivity in Monitoring Drug Efficacy for *Onchocerca volvulus*

Jannet A. Tobon Ramos¹, Nicholas Opoku², George Olipoh³, Peter U. Fischer⁴, Gary J. Weil⁴, Christopher

L. King¹

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LB-5325

Immigrant Screening in a Tropical Medicine Clinic in the Bronx, New York

Hayley Myles¹, Brenden Clark¹, Jilliane Abella¹, Selena Yee¹, Christina Coyle²

¹Jacobi Medical Center, Bronx, NY, United States,

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LB-5326

Strongyloides Stercoralis acquired in the Appalachian region of the United States

David Chodos, John Sanders, Elizabeth Palavecino Wake Forest Baptist Medical Center, Winston-Salem, NC, United States

LB-5327

Noguchi Institute Initiative for Neglected Tropical Diseases Elimination: Aid to Neglected Tropical Diseases Control in Ghana

Dennis Adu-Gyasi, **NIINE Group**

Kintampo Health Research Centre, Kintampo North, Ghana

LB-5328

The potential of a vaccine to protect against *Schistosoma mansoni* infection in humans when used alone, or in combination with mass drug administration, to both control morbidity and move towards transmission elimination

Klodeta Kura, Jaspreet Toor, James Truscott, Roy M. Anderson
Imperial College London, London, United Kingdom

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LB-5329

Trends in prevalence and intensity of loiasis over 20 years in the Yabassi health district (Littoral Region, Cameroon): collateral impact of mass treatments against onchocerciasis

Hugues Nana Djeunga¹, André Domche¹, Cédric Lenou-Nanga¹, Arsel Litchou-Tchuinang¹, Floribert Fossouo-Thotchum¹, Yannick Niamsi-Emalio¹, Thérèse Nko², Joseph Kamgno¹

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LB-5330

An integrated approach to assess Knowledge, Attitude and Practices (KAP) regarding major Neglected Tropical Diseases endemic in the Mbengwi health district (North West Region, Cameroon)

Laurentine Sumo¹, Cédric Lenou-Nanga², Ngum H. Ntonifor¹, Nicanor Chenkumo-Kengmoni¹, Vanessa Amana-Bokagne¹, Chembo G. Awah¹, Yannick Niamsi-Emalio², Hugues Nana Djeunga²

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LB-5331

Individual coverage and compliance between rounds of community-wide mass drug administration for control of soil-transmitted helminths in the TUMIKIA project, Kwale County, Kenya

William E. Oswald¹, Katherine E. Halliday¹, Carlos Mcharo², Stefan Witek-McManus¹, Stella Kepha¹, Th'uva Safari², Roy M. Anderson³, Sammy Njenga², Charles S. Mwandawiro², Simon J. Brooker¹, Rachel L. Pullan¹

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LB-5332

Incidence of Skin Reactions among Asymptomatic *Trypanosoma cruzi* Seropositive Patients Treated with Benznidazole or Nifurtimox: A safety analysis of a Placebo-controlled Randomized Trial

Juan Carlos Villar

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LB-5333

Evaluation of hand and face washing school hygiene program for trachoma elimination in Northern Kenya

Cristin Fergus¹, **Geordie G. Woods**², Esha Sheth³

¹London School of Economics, London, United Kingdom, ²Sightsavers, New Orleans, LA, United States, ³Unilever, Mumbai, India

LB-5334

Introduction of an informational website for the rickettsial disease scrub typhus

Allen L. Richards¹, Paul A. Fuerst², Daryl J. Kelly¹

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LB-5335

Simultaneous administration of praziquantel, ivermectin and albendazole during mass drug administration in three health districts in Guinea: Coverage, safety and costs

André Géopogui¹, Mamadou S. Baldé¹, Cece Nieba¹, Lamah Lamine², Christelly B. Flore², Steven D. Reid³, Jean Jacques Ngamaleu⁴, Bamba F. Ibrahim²

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LB-5336

Biodiversity of gastropods in two river basins of the Southern of Puerto Rico and risk of bilharzia

Juan C. Orengo¹, Fabian Ramirez¹, Kayra Rosado¹, Karla Lopez de Victoria¹, Krystal Figueroa¹, Miguel Rivera², Monica Pagan², Luisel Gonzalez², Cindy Cosme³, Robert Rodriguez¹, Vivian Green¹

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LB-5337

A novel NTD-WASH toolkit facilitates cross-sectoral coordination that is essential for sustainable Neglected Tropical Disease elimination

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LB-5338

Distribution of intermediate hosts of *Schistosoma* at Kisenso, Kinshasa; DRCongo (preliminary study)

Billy S. Kunyu¹, Harry Kayembe², Papy ANSONI², Naomi Awaca³, **Thierry L. Bobanga²**

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LB-5339

Spatial analysis of ring strategy for the control of *Taenia solium* cysticercosis: implications for control and elimination

Ian Pray¹, Claudio Muro², Percy Vilchez², Ricardo Gamboa², Seth E. O'Neal¹

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LB-5340

First report of imported *Plasmodium ovale* cases in Latin America

Mariana Ramos¹, Marianela Oré², Rosio Guerra³,

Hugo Valdivia¹, Danett Bishop¹, Wesley Campbell¹

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LB-5341

Coverage of malaria intermittent preventive treatment in pregnancy in four sub-Saharan African countries: baseline data for an evaluation of a community delivery strategy

Clara Pons-Duran¹, Mireia Llach¹, Raquel González¹, Sergi Sanz¹, Rodolfo Soares¹, Máximo Ramírez¹, Susana Méndez¹, Elaine Roman², Linda Fogarty², Franco Pagnoni¹, Clara Menéndez¹

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LB-5342

Therapeutic response to artemether lumefantrin among individuals with pure versus mixed *Plasmodium* species infections in Kisumu county, Western Kenya

Gladys Chemwor¹, Benjamin Opot¹, Raphael Okoth¹, Redemptah Yedah¹, Agnes Cheruiyot¹, Irene Onyango¹, Dennis Juma¹, Hoseah Akala¹, Ben Andagalu¹, JR Managbanag²

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LB-5343

***Plasmodium* sporozoite infection rates among primary and secondary malaria vectors in Rwanda**

Elias Niyituma¹, Dunia Munyakanage², Beatus Cyubahiro², Xavier Misago¹, Phocas Mazimpaka², Emily Piercefield³, Peter J. Obenauer⁴, Christen Fornadel⁵, Kaendi Munguti⁶, Dereje Dengela⁷, Aimable Mbituyumuremyi², Emmanuel Hakizimana²

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³US President's Malaria Initiative, Malaria Branch, Division of Parasitic Diseases and Malaria, US Centers for Disease Control and Prevention, Kigali, Rwanda, ⁴Navy and Marine Corps Public Health Center Detachment-CDC, Centers for Disease Control and Prevention, Entomology Section, Atlanta, GA, United States, ⁵US President's Malaria Initiative, United States Agency for International Development, Washington, DC, United States, ⁶US President's Malaria Initiative, United States Agency for International Development, Kigali, Rwanda, ⁷Abt Associates, Inc., US President's Malaria Initiative, VectorLink Project, Bethesda, MD, United States

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LB-5344

A case control study to define demographic, behavioral and environmental risks of malaria in the elimination setting of Grand'Anse, Haiti

Ruth Ashton¹, Vena Joseph¹, Thomas Druetz¹, Gillian Stresman², Chris Drakeley², Alexandre Existe³, Jean Frantz Lemoine⁴, Thomas Eisele¹
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LB-5345

Intercurrent Flaviviral Viremia and *Plasmodium ovale* Infection in Ill Returned Travelers to Ontario

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LB-5346

Efficacy of Olyset Duo, a bednet containing pyriproxyfen and permethrin, versus a permethrin-only net against clinical malaria in an area with highly pyrethroid-resistant vectors in rural Burkina Faso: a cluster-randomised controlled trial

Alfred Tiono¹, Alphonse Ouedraogo¹, Daouda Ouattara¹, Edith Bougouma¹, Sam Coulibaly¹, Amidou Diarra¹, Brian Faragher², Moussa Guelbeogo¹, Issa Ouedraogo¹, Zininwende Ouedraogo¹, Margaret Pinder³, Souleymane Sanon¹, Thomas Smith⁴, Fiona Vanobberghen⁴, Nelson Grisales², Hilary Ranson², N'Fale Sagnon¹, Steve W. Lindsay³
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LB-5347

Development of An Automated Outbreak Detection and Early Warning System for Malaria in Thailand

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Cotter¹, Adam Bennett¹, Hugh H. Sturrock¹
¹MEI, Institute of Global Health Sciences, UCSF, San Francisco, CA, United States, ²Bureau of Vector Borne Diseases, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, ³Inform Asia: USAID's Health Research Program, RTI International, Research Park Triangle, NC, United States

LB-5348

A field-based assay to detect antimalarial drugs from patient samples

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LB-5349

Tackling the QAACT market in Kinshasa, DRC through routine surveys

Cristina Lussiana¹, Katie McDonald¹, Anthony M'vemba², Riddy Ndoma³, Martin Dale¹, Bram Piot¹, Stephen Poyer¹, Joseph Lewinski¹
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LB-5350

Malaria surveillance of imported cases in Chile

Naomi Lucchi¹, Daniel F. Escobar², Rispah Abdallah¹, María Teresa Valenzuela³, Venkatachalam Udhayakumar¹, María Isabel Jercic², Stella M. Chenet⁴
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LB-5351

Unexpectedly poor performance of a pLDH rapid diagnostic test for malaria in rural Niger

Matthew E. Coldiron
Epicentre, Paris, France

LB-5352

Cellular immune responses in malaria naïve volunteers after vaccination with Sanaria PfSPZ-CVac, with either chloroquine or pyrimethamine

Irfan Zaidi¹, Charles Wyatt¹, Jake Raiten¹, Kendrick Highsmith¹, Jillian Neal¹, Junhui Duan¹, Agnes Mwakingwe¹, David Cook¹, Jacquelyn Lane¹, Susan Pfeiffer¹, Thomas L. Ritchie², B Kim Lee Sim³, Stephen L. Hoffman², Patrick E. Duffy¹
¹National Institute of Health, Rockville, MD, United States, ²Sanaria Inc, Rockville, MD, United States, ³Sanaria Inc., Rockville, MD, United States

LB-5353

Burden and Risk of Malaria Among Newly Pregnant Women at First Antenatal Clinic Visit in the Middle Belt of Ghana

David K. Dosoo, Kintampo Birth Cohort Team , Kintampo Health Research Centre, Kintampo, Ghana

LB-5354

Malaria in Venezuela: a regional disaster - time for effective actions

Leopoldo Villegas¹, Maria E. Guevara², Luis Fernando Chaves³, Maria M. Villegas², Ananias Escalante⁴
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LB-5355

Evaluation of malaria case reporting pilots in Nghe An and Binh Phuoc provinces, Vietnam

Jillian Dunning¹, Ha Le Phan¹, Charlene Barina¹, Thu Thuy Tran¹, Christopher Lourenco¹, Nguyen Quy Anh²
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States, ²National Institute of Malaria, Parasitology, and Entomology, Hanoi, Vietnam

LB-5356

Molecular and genetic epidemiology of malaria in drug-resistant areas of Vietnam: a case-control study of risk factors

Kimberly Edge¹, Sara E. Canavati², Long T. Tran², Thu M. Nguyen², Dang V. Dung³, Hieu Minh³, Thang D. Ngoc³, Duong T. Tran³, Richard J. Maude⁴, Nicholas J. Martin¹

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LB-5357

The assessment of submicroscopic parasitemia following treatment with Atovaquone-Proguanil and Artesunate-Atovaquone-Proguanil as prognostic indicator of treatment outcome

Kirakarn Kirativanich¹, Panita Gosi¹, Sok Somethy², Lon Chanthap¹, Piyaporn Sai-Ngam¹, Chaiyaporn Chaisatit¹, Michele Spring¹, Worachet Kuntawunginn¹, Saowaluk Wongarunkochakorn¹, Montri Arsanok¹, Mali Ittiverakul¹, Nillawan Buathong¹, Soklyda Chann¹, Hom Sohei¹, Agus Ratchmat³, Dustin Harrison³, Bolin Chum³, Kong Nareth⁴, Mok My⁵, Mao Sodaly⁶, Vireak Heang³, Nicholas Martin¹, Mark Fukuda¹, Philip Smith¹, Dysoley Lek⁴, David Saunders⁷, Mariusz Wojnarski¹

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LB-5358

Time to negativity of standard and ultra-sensitive *Plasmodium falciparum* histidine-rich protein 2 rapid diagnostic tests in Zambezi region, Namibia

Henry M. Ntuku¹, Brooke Whittemore², Cara Smith Gueye¹, Lucille Dausab³, Petrina Uusiku⁴, Stark Katokale⁴, Lisa Prach¹, Allison Golden⁵, Ihn Kyung Jang⁵, Gonzalo J. Domingo⁵, Teun Bousema⁶, Mi-Suk Kang Dufour⁷, Bryan Greenhouse⁸, Davis R. Mumbengegwi³, Roly Gosling¹, Michelle S. Hsiang²
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LB-5359

Evaluation of health facility based surveys to monitor malaria transmission in a pre elimination setting, Indonesia

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LB-5360

Efficacy and safety of dihydroartemisinin-piperaquine for the treatment of uncomplicated *Plasmodium falciparum* and *Plasmodium vivax* malaria in Northern Papua and Jambi Province, Indonesia

Puji B. Asih¹, Ismail E. Rozi¹, Marti Kusumaningsih², Pranti S. Mulyani², Elvieda Sariwati², Sylvia S. Marantina¹, Suradi Wangsamuda¹, Nanda R.

Pratama¹, Herdiana H. Basri³, Ahmad N. Azhari³, Maria Dorina Bustos⁴, Pascal Ringwald⁵, Din Syafruddin¹

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LB-5361

Enhanced entomological surveillance for malaria elimination in Namibia

Titula Titula¹, Stark T. Katokale¹, Tebeth Mwema², Rose Joseph², Dennis Walusimbi³, Sheila Ogoma³, Elodie Vajda⁴, Neil Lobo⁵, George Shirreff³, Allison Tatarsky⁶, Alia Yasmin Williams⁶, Cara Smith Gueye⁶, Petrina Uusiku¹

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LB-5362

A new tool for geographically targeted malaria intervention impacts

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LB-5363

SURVEILLANCE OF EFFICACY AND SAFETY OF ARTEMETHER-LUMEFANTRINE FOR THE TREATMENT OF UNCOMPLICATED FALCIPARUM MALARIA IN MAINLAND TANZANIA

Billy Ngasala¹, Mercy G. Chiduo², Samwel N. Bushukatale¹, Basiliana Emidi³, Celine I. Mandara^{1,4}, Erasmus Kamugisha⁵, Omary Juma Juma⁶, Florida Muro⁷, Ally Mohamed⁸, Renata Mandike⁸, Deus S. Ishengoma⁹, Frank Chaky⁸
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LB-5364

Exploring non-falciparum malaria infection among symptomatic patients presenting to the Emergency Department in an urban hospital in Douala, Cameroon

Daniel Z. Hodson¹, Yannick M. Etoundi², Narcisse M. Nghokeng³, Raïhana Mohamadou⁴, Sonia M. Djoko⁴, Sunil Parikh⁵, Yap Boum II⁶, Carole Eboumbou²
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LB-5365

Active Detection and Early Treatment of Malaria Cases in Children Under Five Years of Age Paired with Seasonal Malaria Chemoprevention (SMC) in Mali

Rose Monteil¹, Diahara Kone², Vincent Sanogo², Boureima Sacko¹, Momar Mbodji¹, Chrestien

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³Catholic Relief Services, Baltimore, MD, United States

LB-5366

Longitudinal dynamics of malaria-induced immune exhaustion among children & adults during seasonal malaria transmission in Ouelessebougou, Mali

Attaher Oumar¹, Zaidi Irfan², Kwan Jennifer³, Mamoudou B Samassekou¹, Djibrilla Issiaka¹, Barou Coulibaly¹, Sekouba Keita¹, Sibiri Sissoko¹, Tiengou Traore¹, Kalifa Diarra¹, Bacary S Diarra¹, Adama Dembele¹, Gaoussou Santara¹, Moussa Traore¹, Almahamoudou Mahamar¹, Amadou Barry¹, Alassane Dicko¹, Patrick Duffy², Michal Fried²
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LB-5367

Evaluation of the malaria transmission blocking vaccine antigen Pfs230D1M in an influenza virosome platform containing TLR agonists

Kelly M. Rausch¹, Mario Amacker², Emma K. Barnaföldi¹, David L. Narum¹, Charles Anderson¹, Sylvain Fleury², Patrick E. Duffy¹
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LB-5368

MR imaging of treatment-induced reversal of cerebral malaria pathology in mice

Brittany A. Riggle¹, Sanhita Sinharay², William Schreiber-Stainthorp², Jeeva P. Munasinghe³, Dragan Maric³, Louis H. Miller¹, Dima A. Hammoud², Susan K. Pierce¹
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LB-5369

Reorienting districts towards malaria elimination programming in areas of heterogeneous malaria transmission: Zimbabwe Malaria elimination capacity assessment survey 2018

Busani Dube¹, Joseph MBERIKUNASHE¹, Brighton Gamburga², Anderson Chimusoro³, Patience Dhliwayo¹, Munashe Madinda², Andrew Tangwena¹, Wilson Chauke¹, Vengai Mafirakureva⁴, Zvoinszwawani Matiza¹

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LB-5370

Gaps in Universal Insecticide-Treated Net Coverage in Western Kenya

Ashley C. Little¹, Jenna E. Coalson¹, Ellen M. Santos¹, Maurice Agawo¹, Stephen Munga², Kacey C. Ernst¹

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LB-5371

Evidence of *Plasmodium vivax* in Africa: complicating the path to elimination

Katherine A. Twohig¹, Daniel A. Pfeffer¹, J. Kevin Baird², Ric N. Price³, Peter A. Zimmerman⁴, Peter W. Gething¹, Katherine E. Battle¹, Rosalind E. Howes¹

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LB-5372

Employing Electronic Malaria Surveillance for Private Sector Outlets: Is it financially sustainable in Cambodia, Laos and Myanmar

Ann Levin¹, James Eliades², Rebecca Potter³, Kemi Tesfazghi⁴, Saysana Phanalasy³, Phally Keo⁴, Elijah Filip⁴, Si Hein Phone²

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Myanmar, ³Population Services International, Vientiane, Lao People's Democratic Republic, ⁴Population Services International, Phnom Penh, Cambodia

LB-5373

Clinical safety and protective efficacy after immunization with genetically modified *Plasmodium berghei* sporozoites expressing *P.falciparum* -circumsporozoite protein in a first-in-human Phase1/2a trial

Isaie J. Reuling on behalf of the PbVac consortium

Radboud University Medical Center, Nijmegen, Netherlands

LB-5374

Targeting asymptomatic malaria: assessment of community-based active case detection in the Peruvian Amazon

Diamantina Moreno-Gutierrez¹, Jose Barbosa-Chichipe², Juan Contreras-Mancilla², Dionicia Gamboa³, Hugo Rodriguez⁴, Gabriel Carrasco², Marie-Pierre Hayette⁵, Philippe Beutels⁶, Alejandro Llanos-Cuentas², Niko Speybroeck⁷, Angel Rosas-Aguirre⁸

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LB-5375

Performance evaluation of an ultra-sensitive rapid diagnostic test for malaria active case detection in the low transmission setting of Zambezi Region, Namibia

Brooke Whittemore¹, Lisa M. Prach², Munyaradzi Tambo³, Leah Schrubbe², Sofonias Tessema⁴, Smita Das⁵, Lindsey Wu⁶, Mi-Suk Kang Dufour⁷, Henry Ntuku², Cara Smith-Gueye², Allison Golden⁵, Ihn Kyung Jang⁵, Petrina Uusiku⁸, Stark Katokele⁸, Gonzalo J. Domingo⁵, Roly Gosling², Bryan Greenhouse⁴, Davis Mumbengegwi³, Michelle S. Hsiang¹

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LB-5376

Evaluation of a point of care LAMP assay for the detection of *Plasmodium* from dried blood spots

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LB-5377

Using machine learning methods to identify correlates of protection in B and T cell responses in the RTS,S/AS01B malaria vaccine candidate

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LB-5378

Concurrent infection with dengue and *Leptospira interrogans* after massive flooding in Bangkok

Thundon Ngamprasertchai¹, Krit Madsalae¹,

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Thaipadungpanit³, Watcharapong Piyaphanee¹

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Tropical Medicine Research Unit, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

LB-5379

A Mathematical Model of the Transmission of Middle East Respiratory Syndrome Coronavirus in Dromedary Camels (*Camelus dromedarius*)

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LB-5380

Brazilian hyperendemic zoonosis successfully monitored by ELISA: an additional tool on breaking sporotrichosis transmission chain

Vivian S. Baptista¹, Thayana O. Santos², Giulia M. Santos¹, Emylli D. Virginio², Larissa S. Mendonça¹, Pâmella A. Macêdo-Sales¹, Márcia R. Pinto¹, Ricardo Luiz D. Machado¹, Elisabeth M. Rocha¹, Leila Maria Lopes-Bezerra², **Andréa Regina S. Baptista**¹
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LB-5381

EEG and intracranial pressure deviations are biomarkers of acute viral encephalitis following Venezuelan Equine Encephalitis virus infection in cynomolgus macaques

Henry Ma, Katherine J. O'Malley, Jeneveve D. Lundy, Jen Symmonds, William B. Klimstra, Amy L. Hartman, Douglas S. Reed
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LB-5382

Epidemiology of Rift valley and > for Dengue fever viruses in Sub-Saharan Africa; Systematic Review

Yimam G. Misganie

Ethiopian Public Health Institute, Addis Ababa, Ethiopia

LB-5383

Development of a Pregnant Ovine ZIKV Infection Model

Erika R. Schwarz¹, Małgorzata A. Pozor¹, Ruiyu Pu¹, Kelli L. Barr², Sarah Beachboard¹, Dhani Prakoso¹, Maureen T. Long¹

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LB-5384

High burden of rotavirus gastroenteritis in early infancy in a Nicaraguan birth cohort, 2017-2018

Nadja A. Vielot¹, Filemon Bucardo², Yahoska Reyes², Fredman Gonzalez², Margarita Paniagua², Christian Toval², Lester Gutierrez², Natalie Bowman¹, Samuel Vilchez², Jan Vinje³, Sylvia Becker-Dreps¹

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LB-5385

Dengue and Chikungunya Infection in Indonesia

Harapan Harapan¹, Suzi McCarthy¹, Alice Michie¹, Timo Ernst¹, Muhsin Muhsin², Safarianti Safarianti², Tjuz M. Zanaria², Sotianingsih Haryanto³, Mudatsir Mudatsir², Roy Nusa⁴, Benediktus Yohan⁵, Pei-Yun Shu⁶, R. Tedjo Sasmono⁵, David Smith¹, Allison Imrie¹

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LB-5386

Dengue Sero-prevalence in the Colombo District, Sri Lanka

M. B. Azhar Ghose, Hasitha A. Tissera
Epidemiology Unit, Ministry of Health, Sri Lanka

LB-5387

Zika infection among pregnant women in Mombasa, Coastal Kenya, 2017-2018; Preliminary results of a cohort study

Irene Inwani¹, Eric Osoro², Cyrus Mugo¹, Elizabeth Hunsperger³, Victor Omballa⁴, Dalton Wamalwa¹, Jennifer Verani³, Ruth Nduati¹, John Kinuthia⁵, Hafsa Jin⁶, Lydia Okutoyi⁷, Dufton Mwaengo⁸, Brian Maugo¹, James Machoki⁸, Nancy Otieno⁹, Daniel Rhee¹⁰, Harriet Mirieri², Mufida Shabibi¹¹, Kariuki Njenga², **Marc-Alain Widdowson³**

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LB-5388

Six-Year Safety of the Recombinant Live-Attenuated Chimeric-Yellow Fever-Dengue Virus Tetravalent Dengue Vaccine (CYD-TDV) in Phase III Efficacy Trials in Asia and Latin America

Gabriel Carrasquilla¹, Tran Ngoc Huu², Jose Luis Arredondo³, Maria Rosario Capeding⁴, Doris Maribel Rivera⁵, Sri Rezeki Hadinegoro⁶, **Margarita Cortés⁷**, Carina Frago⁸, Diana Coronel⁹, Ana Paula Perroud¹⁰, Thelma Laot¹¹, Leilani Sanchez¹¹, Danaya Chansinghakul¹², Betzana Zambrano¹³, Gustavo Dayan¹⁴, Sophie Pallardy¹⁵, Matthew Bonaparte¹⁴, Owen Haney¹⁴, Alain Bouckenoghe⁸, Fernando Noriega¹⁴, Carlos A. DiazGranados¹⁴
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²Ho Chi Minh City Pasteur Institute, Ho Chi Minh City, Vietnam, ³Instituto Nacional de Pediatría, Unidad de Apoyo a La Investigación Clínica, Mexico City, Mexico, ⁴Research Institute for Tropical Medicine (RITM), Muntinlupa City, Philippines, ⁵Inversiones en Investigación Médica Sociedad Anónima, Tegucigalpa, Honduras, ⁶Medical Faculty, University of Indonesia, Division of Infection and Tropical Pediatrics, Jakarta, Indonesia, ⁷SANOFI PASTEUR, Bogotá, Colombia, ⁸Sanofi Pasteur, Singapore, Singapore, ⁹Sanofi Pasteur, Mexico City, Mexico, ¹⁰Sanofi Pasteur, São Paulo, Brazil, ¹¹Sanofi Pasteur, Taguig, Philippines, ¹²Sanofi Pasteur, Bangkok, Thailand, ¹³Sanofi Pasteur, Montevideo, Uruguay, ¹⁴Sanofi Pasteur, Swiftwater, PA, United States, ¹⁵Sanofi Pasteur, Marcy l'Etoile, France

LB-5389

Developing and deploying CRISPR-based diagnostics for Lassa fever response in Nigeria and further application of this technology

Kayla G. Barnes
Broad Institute of MIT and Harvard, Cambridge, MA, United States

LB-5390

Evaluating the spatio-temporal heterogeneity of dengue in Colombo city, Sri Lanka

Nayantara Wijayanandana¹, Jorge Cano¹, Ruwan Wijayamuni², Hasitha Tissera³, Neal Alexander¹
¹London School of Hygiene and Tropical Medicine, London, United Kingdom, ²Colombo Municipal Council, Colombo, Sri Lanka, ³Ministry of Health, Colombo, Sri Lanka

LB-5391

Histo-blood group antigens are innate factors associated with resistance to rotavirus and norovirus infections

Filemon Bucardo¹, Fredman González¹, Yaoska Reyes¹, Omar Zepeda¹, Christian Toval¹, Nadja Vielot², Jan Vinje³, Lennart Svensson⁴, Johan Nordgren⁴, Sylvia Becker-Dreps²

¹National Autonomous University of Leon, Nicaragua., Leon, Nicaragua, ²Family Medicine, University of North Carolina, Chapel Hill, NC, United States, ³Centers for Disease Control and Prevention, Atlanta, GA, United States, ⁴Department of Clinical and Experimental Medicine, Linköping University, Linköping, Sweden

LB-5392

Clinical Manifestations of Nipah virus infected patients presenting to the Emergency Department

CHANDNI RADHAKRISHNAN¹, Renjith T P¹, Arshad Fazal¹, Rajendran V R¹, Thulaseedharan N K¹, Sugunan A P², Arunkumar G³, Mourya D T⁴

¹Government Medical College, Kozhikode, Kerala, India, ²National Institute of Epidemiology, Chennai, India, ³Manipal Centre for Virus Research, Manipal, India, ⁴National Institute of Virology, Pune, India

LB-5393

Severity Index for Suspected Arbovirus (SISA): Machine Learning for Accurate Prediction of Hospitalization in Patients Suspected of Arboviral Infection from a Prospective Surveillance Study in Machala, Ecuador

Daniel F. Farrell¹, Rachel Sippy¹, Ryan Nightingale¹, Daniel Lichtenstein¹, Megan Harris¹, Joseph Toth¹, Paris Hantzidiamantis¹, Cinthya K. Cueva Aponte², Nicholas T. Usher³, Anthony Puthumana⁴, Julio H. Barzallo Aguilera⁵, Anna M. Stewart-Ibarra¹

¹SUNY Upstate Medical University, Syracuse, NY, United States, ²Upstate Institute for Global Health and Translational Science, Machala, Ecuador, ³Cornell University, Ithaca, NY, United States, ⁴Baylor College of Medicine, Houston, TX, United States, ⁵Hospital Teofilo Davila, Machala, Ecuador

Poster Session B
Late Breakers in Clinical and Applied Sciences
Tuesday, October 30, Noon - 1:45 p.m.

LB-5394

Development of a point-of-care diagnostic test for Heartland virus using Isothermal Recombinase Polymerase Amplification-Lateral Flow

Thomas R. Shelite, Nathen E. Bopp, Erin S. Reynolds, Saravanan Thangamani, Patricia V. Aguilari, Peter C. Melby, Bruno L. Traví
University of Texas Medical Branch, Galveston, TX, Galveston, TX, United States

LB-5395

Rapid deployment of an Illumina iSeq100 for accurate whole viral genome sequencing during an Ebola virus disease outbreak

Catherine B. Pratt¹, Placide Mbala², Michael Wiley¹, Amuri Aziza², Stomy Karhemere², Steve Gross³, Gary Schroth³, Jean-Jacques Muyembe², Gustavo Palacios¹, Steve Ahuka-Mundeke²

¹*US Army Medical Research Institute of Infectious Diseases, Frederick, MD, United States*, ²*Institut National de Recherche Biomédicale, Kinshasa, Democratic Republic of the Congo*, ³*Illumina, San Diego, CA, United States*

Poster Session 133

Poster Session C

Late Breakers in Basic Sciences

*Wednesday, October 31, Noon - 1:45 p.m.
Marriott - Grand Ballroom (3rd Floor)*

Arthropods/Entomology	#LB-5403 through LB-5416
Bacteriology and Diarrhea	#LB-5417 through LB-5425
Kinetoplastida	#LB-5426 through LB-5430
Malaria	#LB-5431 through LB-5461
Viruses	#LB-5462 through LB-5470
Water, Sanitation, Hygiene and Environmental Health	#LB-5471 through LB-5474

LB-5403

New Prototype Screened Doors and Windows for Excluding Mosquitoes from Houses: a Pilot Study in Rural Gambia

Steven Lindsay¹, Musa Jawara², Ebrima Jatta¹, David Bell³, Thomas Burkot⁴, John Bradley⁵, Victoria Hunt³, Balla Kandeh⁶, Caroline Jones⁷, Aji M. Manjang², Margaret Pinder¹, Shannon Stone³, Umberto D'Alessandro², Jakob Knudsen⁸

¹Durham University, Durham City, United Kingdom, ²MRC Unit The Gambia at LSHTM, Fajara, Gambia, ³Intellectual Ventures, Global Good Fund, Bellevue, WA, United States, ⁴Australian Institute of Tropical Health & Medicine, Cairns, Australia, ⁵LSHTM, London, United Kingdom, ⁶NMCP, Banjul, Gambia, ⁷KEMRI-Wellcome Trust Research Programme, Kilifi, Kenya, ⁸KADK, Copenhagen, Denmark

LB-5404

Chemosensory Receptors in the Asian Tiger Mosquito, *Aedes albopictus* (Skuse)

Jason Pitts, Garrett Ray, Anjali Ravee, Shan Ju Shih, Elizabeth M. Dewey
Baylor University, Waco, TX, United States

LB-5405

Effects of Colonization on the *Aedes aegypti* Microbiome and Vector Competence

Christopher M. Roundy¹, Kamil Khanipov¹, Yuiiry Fofanov¹, Grant Hughes², Scott C. Weaver¹
¹University of Texas Medical Branch, Galveston, TX, United States, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom

LB-5406

The steroid hormone 20-hydroxyecdysone (20E) transcriptionally regulates the midgut of *Anopheles gambiae* to promote bacterial expansion

Sarah Sneed, Michael Povelones
University of Pennsylvania, Philadelphia, PA, United States

LB-5407

Impact of *Wolbachia* on the Composition and Diversity of Bacterial Microbiota in *Aedes albopictus*

Xiaoming Wang¹, Daibin Zhong¹, Tong Liu², Guofa Zhou¹, Dongjing Zhang³, Zhiyong Xi⁴, Xiao-Guang Chen², Guiyun Yan¹
¹University of California, Irvine, Irvine, CA, United States, ²Southern Medical University, Guangzhou, China, ³Sun Yat-Sen University, Guangzhou, China, ⁴Michigan State University, East Lansing, MI, United States

LB-5408

Generating mosquitocidal antibodies in rabbits immunized with neuronal antigens from *Anopheles gambiae*

Taylor C. Clarkson, Jasmine Donkoh, Jacob I. Meyers, John Fosters, Tereza Magalhaes, Lyndsey Gray, Brian D. Foy
Colorado State University, Fort Collins, CO, United States

Poster Session C
Late Breakers in Basic Sciences
Wednesday, October 31, Noon - 1:45 p.m.

LB-5409

Chemical depletion of phagocytic immune cells in *Aedes aegypti* to functionally characterize the contributions of mosquito hemocytes in arbovirus infection

Jyothsna Ramesh Kumar, Ryan C. Smith
Iowa State University, Ames, IA, United States

LB-5410

Enhanced *Aedes* mosquito surveillance using ovitraps in rural and urban communities, Coatepeque, Guatemala 2017-2018

Silvia M. Sosa¹, Carolina Romero¹, Lucía Ortíz¹,
Audrey Lenhart², **Celia M. Cordón-Rosales¹**
¹*Universidad del Valle de Guatemala, Guatemala, Guatemala*,
²*Centers for Disease Control and Prevention, Atlanta, GA, United States*

LB-5411

Characterization of the interaction between *Plasmodium falciparum* Pfs47 with its receptor in Anopheline vectors

Alvaro Molina-Cruz, Gaspar Canepa, Adeline Williams, Simardeep Nagyal, Thiago Alves, Eric Calvo, Carolina Barillas-Mury
NIH, Rockville, MD, United States

LB-5412

Free flight acoustic behavior of *Anopheles gambiae* swarms

Kevin Pritts¹, Laura C. HARRINGTON², Garrett League¹
¹*Cornell University, Ithaca, NY, United States*,
²*Cornell University, ITHACA, NY, United States*

LB-5413

Assessing mosquito vertebrate interaction networks from host availability and blood source analysis in a fragmented forest in Colombia

Mauly J. Hoyos¹, Cielo León¹, Nick Kormar²,
Stephanie Slayer³, Joel Montgomery³, Camila González¹
¹*Universidad de los Andes, BOGOTA, Colombia*,
²*Division of Vector-Borne Diseases, National Center for Emerging and Zoonotic Infectious Diseases, CDC, Fort Collins, CO, United States*,
³*Division of Global Health Protection, Center for Global Health, CDC, Atlanta, GA, United States*

LB-5414

Mosquito Sampling and Arbovirus Surveillance in Oklahoma

Randall Welles, Helen Arango, Nicholas Back, Caio Martinelle Franca
Southern Nazarene University, Bethany, OK, United States

LB-5415

Citizen Science Reveals Novel Areas of Lonestar Tick Exposure in the United States Indicating Potentially New Sources of Tick-borne Infections

Julie Wachara¹, W. Tanner Porter¹, Peter J. Motyka¹, Thomas J. Lowrey¹, Daniel J. Salkeld², Nathan C. Nieto¹

¹*Northern Arizona University, Flagstaff, AZ, United States*, ²*Colorado State University, Fort Collins, CO, United States*

LB-5416

Testing Real-Time Arboviral-Surveillance Using a Portable Lab and in-field sequencing in Darien, Panama

Caio Martinelle B. Franca¹, Jose Loiza², Jose Rovira³, Matthew Miller⁴
¹*Southern Nazarene University, Bethany, OK, United States*, ²*Instituto de Investigaciones Científicas y Servicios de Alta Tecnología, Ciudad de Panamá, Panama*, ³*Instituto de Investigaciones Científicas y Servicios de Alta Tecnología, Ciudad de Panamá, Panama*, ⁴*Sam Noble Oklahoma Museum of Natural History and Department of Biology, University of Oklahoma, Norman, OK, United States*

LB-5417

Diarrhoea caused by enterotoxigenic *Escherichia coli* induces T-cell responses in the circulation

Md Taufiqur R. Bhuiyan
International Centre for Diarrhoeal Disease, Bangladesh, Dhaka, Bangladesh

LB-5418

Locally produced oral cholera vaccines produced by technology transfer in Bangladesh: Phase I/II trials

Fahima Chowdhury, Afroza Akhter, Taufiqur Rahman Bhuiyan, Firdausi Qadri
icddr,b, Dhaka, Bangladesh

Poster Session C
Late Breakers in Basic Sciences
Wednesday, October 31, Noon - 1:45 p.m.

LB-5419

The loss of vector competency and transmission of the relapsing fever spirochete, *Borrelia turicatae*, in association with in vitro cultivation: implications for mutagenesis studies

APARNA KRISHNAVAJHALA

Baylor College of Medicine, Houston, TX, United States

LB-5420

Vaccination strategies for control of endemic cholera in Bangladesh and lessons learnt to facilitate the largest preemptive use of oral cholera vaccine in a humanitarian crisis in Cox's Bazar between 2017-18

Firdausi Qadri

International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

LB-5421

Serum antibody profiling among travelers' with shigella-associated acute watery diarrhea and dysentery

Mark S. Riddle¹, Krista Trappi-Kimmons², Jamie Frasier³, Arlo Randall², Patrick Connor⁴, David R. Tribble¹

¹Uniformed Services University, Bethesda, MD, United States, ²Antigen Discovery, Inc. (ADI), Irvine, CA, United States, ³Henry M. Jackson Foundation, Rockville, MD, United States, ⁴Academic Department of Military Medicine, Royal Centre for Defence Medicine, Birmingham, United Kingdom

LB-5422

Reversible paratransgenesis

Wei Huang, Marcelo Jacobs-Lorena
Johns Hopkins University, Baltimore, MD, United States

LB-5423

Culture-Independent Detection and Identification of Pathogenic *Leptospira* Serovars

Aristea A. Lubar¹, Kira L. Chaiboonma¹, Nicholas N. Pilau², Alan S. Marroquin¹, Joseph M. Vinetz³, Michael A. Matthias¹

¹University of California San Diego, La Jolla, CA, United States, ²Usman Danfodiyo University, Sokoto,

Nigeria, ³Yale University, New Haven, CT, United States

LB-5424

Incidence of Enteric Fever in Bangladesh, Nepal, and Pakistan: Results of the Surveillance for Enteric Fever in Asia Project

Caitlin Barkume¹, Jason R. Andrews², Denise Garrett¹, Samir Saha³, Farah Qamar⁴, Ashley Tate⁵, Kashmira Date⁵, Stephen P. Luby²

¹Sabin Vaccine Institute, Washington, DC, United States, ²Division of Infectious Diseases and Geographic Medicine, Stanford University, Stanford, CA, United States, ³Department of Microbiology, Dhaka Shishu Hospital, Dhaka, Bangladesh, ⁴Department of Pediatrics and Child Health, Aga Khan University, Karachi, Pakistan, ⁵Global Immunization Division, Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5425

Comparison of cost of illness of extensively drug-resistant (XDR) vs. non-XDR typhoid fever in Pakistan: policy implications for typhoid vaccine

Tahir Yousafzai¹, Ashar Malik², Hina Mirza², Caitlin Barkume³, Denise Garrett³, Ashley Tate⁴, Sarah Pallas⁴, Nelly Mejia⁴, Taiwo Abimbola⁴, Kashmira Date⁴, Farah Qamar¹

¹Department of Paediatrics and Child Health, Aga Khan University, Karachi, Pakistan, ²Aga Khan University, Karachi, Pakistan, ³Sabin Vaccine Institute, Washington, DC, United States, ⁴Centers for Disease Control and Prevention, Atlanta, GA, United States

LB-5426

VALIDATION OF IMMUNOENZYMATIC ASSAY (ELISA) USING RECOMBINANT ANTIGENS FOR SEROLOGICAL DIAGNOSIS OF CANINE VISCERAL LEISHMANIASIS (CVL)

Mahyumi Fujimori¹, Maria Carmen Arroyo Sanchez¹, José Eduardo Tolezano², Roberto Mitsuyoshi Hiramoto², Bruna Cristine Rodrigues², Valéria Régia Franco Sousa³, Arleana do Bom Parto Ferreira de Almeida³, Nazaré Fonseca Souza⁴, Flaviane Alves de Pinho⁵, Steven G. Reed⁶, Malcolm Scott Duthie⁶, Hiro Goto¹

¹Institute of Tropical Medicine, University of São Paulo, São Paulo, Brazil, ²Adolfo Lutz Institute, São Paulo, Brazil, ³Federal University of Mato Grosso, Cuiabá, Brazil, ⁴Federal Rural University of Amazônia, Belém, Brazil, ⁵Federal University of Bahia, Bahia, Brazil, ⁶Infectious Disease Research Institute, Seattle, WA, United States

Poster Session C
Late Breakers in Basic Sciences
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LB-5427

A Systematic Review of Virulence Factors in the *Leishmania* Genus

Avinash Mukkala¹, Ruwandi Kariyawasam¹, Eric Shao², Priyanka Challa¹, Michael Klowak³, Tianna Chong-Kit⁴, Osaru Omoruna⁵, Malia Omale¹, Olamide Egbeumi³, Shareese Clarke⁶, Dylan Kain¹, Andrea K. Boggild¹

¹University of Toronto, Toronto, ON, Canada,
²Western University, London, ON, Canada, ³McMaster University, Hamilton, ON, Canada, ⁴University of Waterloo, Waterloo, ON, Canada, ⁵Queen's University, Kingston, ON, Canada, ⁶University of Ontario Institute of Technology, Oshawa, ON, Canada

LB-5428

Benznidazole treatment has no effect on levels of pro-fibrotic TGF- β or cardiac fibrosis in a mouse model of chronic Chagasic cardiomyopathy

Kristyn A. Hoffman, Maria E. Bottazzi, Peter J. Hotez, Kathryn M. Jones
Baylor College of Medicine, Houston, TX, United States

LB-5429

High prevalence and genotype diversity of *Trypanosoma cruzi* from small mammals in Central Mississippi

Sam Jameson¹, Claudia P. Herrera², Michael Nowicki¹, Leandro Mena¹
¹University of Mississippi Medical Center, Jackson, MS, United States, ²Tulane University, New Orleans, LA, United States

LB-5430

IgG subclasses and Heart Failure stages in *Trypanosoma cruzi* infection

Paula P. Carballo Jimenez¹, Cristian Roca¹, Freddy Tinajeros¹, Edith Málaga², Manuela Verastegui², Margoth Ramírez¹, Eliana Saenza¹, Gustavo Duran Saucedo¹, Robert H. Gilman³
¹Asociacion Benefica PRISMA, Santa Cruz de la Sierra, Plurinational State of Bolivia, ²Universidad Peruana Cayetano Heredia, Lima, Peru, ³Johns Hopkins School of Public Health, Baltimore, MD, United States

LB-5431

Determining the transmission threshold of *Plasmodium vivax* at low parasite density

Thitiporn Surit

Department of Clinical Tropical Medicine, Faculty of Tropical Medicine, Mahidol University, Bangkok, Thailand

LB-5432

Assessing malaria data quality in Mali using WHO routine data quality review tool

Diadier Diallo, Ramine Bahrambegi

MEASURE Evaluation, Chapel Hill, VA, United States

LB-5433

School-based Continuous Distribution of ITNs Pilot in Guinea Show Immediate Increase in Use and Access

Bolanle Olapeju¹, Sara Berthe¹, Sean Blaufuss¹, Ibrahima Sanoa², Alphonse Sakouvogui³, Hannah Koenker¹

¹Johns Hopkins Center for Communication Programs, Baltimore, MD, United States, ²Programme National de Lutte contre le Paludisme, Conakry, Guinea,

³Cabinet d'Etudes, de Recherches et de Conseils, Conakry, Guinea

LB-5434

***Plasmodium falciparum* 6-cysteine domain structure derived from a transmission blocking vaccine candidate Pfs230 in complex with a transmission blocking antibody**

Kavita Singh¹, Martin Burkhardt¹, Nicholas J. MacDonald¹, Raul Herrera¹, Apostolos Gittis¹, Olga Muratova¹, Emily Kelnhof¹, Karine Reiter¹, Sofia Nakuchima¹, Goashan Zhang², Patrick E. Duffy¹, David N. Garbozzi¹, **David L. Narum**¹

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

LB-5435

Immune responses detected in peripheral blood do not reflect those in the liver following vaccination with *Plasmodium falciparum* circumsporozoite protein nanoparticle

Stasya Zarling¹, Abby London¹, Stephen Kaba¹, Sidartha Chaudhury², David Lanar¹, Urszula Krzych¹

¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²Biotechnology High Performance Computing Software Applications Institute, Fort Detrick, MD, United States

Poster Session C
Late Breakers in Basic Sciences
Wednesday, October 31, Noon - 1:45 p.m.

LB-5436

Design and epitope optimization of a novel Circumsporozoite protein based malaria vaccine using the Tobacco Mosaic Virus (TMV) Virus-like particle

Mark D. Langowski, Farhat Khan, Alexis Bitzer, Kimberly Soto, Adrian Batchelor, **Sheetij Dutta**
Walter Reed Army Institute of Research, Silver Spring, MD, United States

LB-5437

A Preclinical Mouse Model of Human *Plasmodium* Infection for Interrogation of Antimalarial Drugs

Kristina S. Wickham¹, Siobhan Flaherty², Sara Viera-Morilla³, María José Lafuente-Monasterio³, Gregory A. Reichard¹, Rosemary Rochford²
¹Walter Reed Army Institute of Research, Silver Spring, MD, United States, ²University of Colorado Denver, Denver, CO, United States,
³GlaxoSmithKline, Tres Cantos, Madrid, Spain

LB-5438

Mode of action of Primaquine -Quinoxaline 1,4-di-N-oxide hybrids againsts *Plasmodium*: evidence for role of stress oxidative

Leonardo Bonilla Ramirez¹, Silvia Galiano², Miguel Quiliano², Ignacio Aldana², Adriana Pabón¹
¹Grupo Malaria, Universidad de Antioquia (UdeA), Sede de Investigación Universitaria (SIU), Medellin, Colombia, ²Universidad de Navarra, Institute of Tropical Health (ISTUN), Facultad de Farmacia y Nutrición, Department of Organic and Pharmaceutical Chemistry, Campus Universitario, Pamplona, Spain

LB-5439

Sub-lethal effect of transfluthrin repellent sandals to indoor feeding and indoor resting mosquitoes

Emmanuel E. Hape, Doreen J. Siria, Tegemeo Gavana, Khamis S. Kifungo, Merceline F. Finda, Winfrida P. Mponzi, Halfan S. Ngowo, Fredros O. Okumu
Ifakara Health Institute, Morogoro, United Republic of Tanzania

LB-5440

Where and when do mosquito vectors of malaria meet agricultural insecticides

Chantal M.J. Hendriks¹, Anna Trett², Penny Hancock¹, Peter Gething¹, Catherine Moyes¹
¹University of Oxford, Oxford, United Kingdom, ²Liverpool School of Tropical Medicine, Liverpool, United Kingdom

LB-5441

From gametocytes to sporozoites to liver stage schizonts to gametocytes without mosquitoes: Fully infectious *in vitro*-produced *Plasmodium falciparum* sporozoites

Abraham G. Eappen¹, Ryan Shepherd¹, Tao Li¹, Hashani Hettiarachchi¹, Christiane Urgena¹, Benjamin U. Hoffman², Sumana Chakravarty¹, Eileen F. Villasante³, Peter F. Billingsley¹, B. Kim Lee Sim¹, Stephen L. Hoffman¹
¹Sanaria Inc., Rockville, MD, United States, ²Columbia University Irving Medical Center, 630 West 168th Street, New York, NY, United States, ³Infectious Diseases Directorate, Malaria Department, Naval Medical Research Center, 503 Robert Grant Ave, Silver Spring, MD, United States

LB-5442

Assessing the role of *Plasmodium falciparum* chondroitin sulfate A ligand, PfCSAL, in placental malaria pathogenesis

Bethany Jenkins, Patricia Gonzales Hurtado, Robert Morrison, Jillian Neal, Sachy Orr-Gonzalez, Tarik Ouahes, Lynn Lambert, Michal Fried, Patrick Duffy NIAID/NIH, Rockville, MD, United States

LB-5443

A game changer in malaria vector control training: The serious game as an innovative tool for training vector control staff

Claire Dormann¹, Kirsten A. Duda¹, Edward K. Thomsen¹, Marlize Coleman², Charlotte Hemingway¹, Alison Reynolds¹, Julie-Anne Tangena¹, Andy South¹, Busiku Hamainza³, Delenasaw Yewhalaw⁴, Michael Coleman¹
¹Liverpool School of Tropical Medicine, Liverpool, United Kingdom, ²IVCC, Liverpool, United Kingdom, ³National Malaria Elimination Centre, Zambia MoH, Lusaka, Zambia, ⁴Jimma University, Jimma, Ethiopia

LB-5444

Optimal estimation of complex networks of multigene repertoire overlaps from sequence data

Daniel B. Larremore
University of Colorado Boulder, Boulder, CO, United States

Poster Session C
Late Breakers in Basic Sciences
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LB-5445

Cytolytic CD8 T cells with a single peptide specificity of *Plasmodium berghei* liver stage antigen mediate protective immunity

Alexander Pichugin¹, Stasya Zarling¹, Leah Perazzo¹, Patrick E. Duffy², Urszula Krzych¹
¹WRAIR, Silver Spring, MD, United States, ²NIAID, Rockville, MD, United States

LB-5446

Progress in the Control of Malaria in Guinea: Analysis of Health Facility Data from the USAID Guinea StopPalu project, 2014-2017

Donal Bisanzio¹, Aissata Fofana², Timothée Guilavogui³, Mamadou Aliou Baldé², Jean-Luc Taton², Patrick Condo⁴, Richard Reithinger¹
¹RTI International, Washington, DC, United States, ²RTI International, Conakry, Guinea, ³National Malaria Control Program, Ministry of Health, Conakry, Guinea, ⁴President's Malaria Initiative, US Agency for International Development, Conakry, Guinea

LB-5447

C-terminus fragments of PfVAR2CSA induce functional antibodies that block the binding of Malian field isolates to CSA

Holly M. Torano¹, M. Gordon Joyce¹, Shaji Daniel¹, Almahamoudou Mahamar², Oumar Attaher², Bacary S. Diarra², Moussa Traore², Alassane Dicko², Jonathan Renn¹, Justin Doritchamou¹, Bruce Swihart¹, Matthew Cowles¹, Maryonne Snow-Smith¹, Lynn Lambert¹, Robert Morrison¹, Michal Fried¹, Patrick E. Duffy¹

¹National Institutes of Health, Rockville, MD, United States, ²Mali Research Training Center, Bamako, Mali

LB-5448

Immunogenicity and antigenicity of the full-length *P. vivax* rPvs4845 protein produced in both *E. coli* and mammalian CHO cell lines and cross-reactivity of sera from African malaria individuals

Nora Cespedes¹, Imen Ayadi², Carlos A. Echeverry¹, Angela Valencia¹, Issa Nebie³, Saidou Balam², Socrates Herrera⁴, Giampietro Corradin², Myriam Arévalo-Herrera¹

¹Malaria Vaccine and Drug Development Center (MVDC), Cali, Colombia, ²Department of Biochemistry, University of Lausanne, Lausanne, Switzerland, ³Centre National de Recherche et de

Formation sur le Paludisme, Ouagadougou, Burkina Faso, ⁴Caucaseco Scientific Research Center, Cali, Colombia

LB-5449

Vd2 cell effector responses are altered in neonates born to women with placental malaria

Haoting Hsu¹, Sarah Boudova², Godfrey Mvula³, Titus Divala³, Randy Mungwira³, Christopher Harman⁴, Miriam Laufer², Cristiana Cairo¹

¹Institute of Human Virology, 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, ³Blantyre Malaria Project, University of Malawi College of Medicine, Blantyre, Malawi, ⁴Obstetrics, Gynecology and Reproductive Health, University of Maryland School of Medicine, Baltimore, MD, United States

LB-5450

***In vivo* *P. falciparum* sexual differentiation is associated with ap2-g-dependent and -independent gene expression and inversely correlated with parasitemia and host temperature**

Surendra K. Prajapati¹, Ruth Ayanful-Torgby², Fetsus K. Acquah², Elizabeth Cudjoe², Courage Kakaney², Jones A. Amponsah², Evans Obboh², Benjamin K. Abuaku², Linda Amoah², Kim C. Williamson¹

¹Uniformed Services University of the Health Sciences, Bethesda, MD, United States, ²Noguchi Memorial Institute for Medical Research (NMIMR), University of Ghana, Accra, Ghana

LB-5451

Malaria National Program of Cambodia's experiences on mHealth for Malaria Elimination

Pengby Ngor
CNM and MoRU, Phnom Penh, Cambodia

LB-5452

Gibberellins and *Plasmodium falciparum*: targeting dormancy mechanisms with phytohormones

Alona Botnar¹, Chungsik Kim², Roman Manetsch², Dennis E. Kyle¹

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

²Northeastern University, Boston, MA, United States

Poster Session C
Late Breakers in Basic Sciences
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LB-5453

Individualized transcriptional resolution of complicated malaria in a Colombian study

Myriam Arevalo-Herrera¹, Mónica Mónica Rojas-Peña², Meixue Duan³, Dalia Arafat², Lina Rengifo¹, Sócrates Herrera⁴, Greg Gibson²

¹Malaria Vaccine and Drug Development Center, Cali, Colombia, ²Center for Integrative Genomics, Georgia Institute of Technology, Atlanta, GA, United States,

³1 Center for Integrative Genomics, Georgia Institute of Technology, Atlanta, GA, United States,

⁴Caucaseco Scientific Research Center, Cali, Colombia

LB-5454

RH5- and AMA1-specific monoclonal antibodies isolated from malaria-exposed individuals and immunized mice with human germline repertoires show diverse functional and polyreactive profiles

Marine Malbec¹, Kendall Whitt¹, Silvia Portugal², Richard Welsh¹, Robert Babb¹, Peter D. Crompton³, Lisa Purcell¹

¹Regeneron Pharmaceuticals, Tarrytown, NY, United States, ²Heidelberg University, Heidelberg, Germany,

³National Institute of Allergy and Infectious Diseases, National Institutes of Health, Rockville, MD, United States

LB-5455

Modification of genetic markers of piperaquine resistance in *Plasmodium falciparum* isolates from Cambodia

Megan R. Ansbro

National Institutes of Health, Rockville, MD, United States

LB-5456

Insecticide Residual Spray project to target residual transmission and the devolution of the strategy to the national health care system

Libasse Gadiaga, Fatou BA Fall, Doudou Sene

National Malaria control Programm, Dakar, Senegal

LB-5457

Kinetics features of the interaction of antibodies against *Plasmodium falciparum* circumsporozoite protein with the minimal NANP repeat epitope: A biophysical approach to search for correlates of protection in vaccines

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¹Duke Human Vaccine Institute, Durham, NC, United States, ²Jenner Institute, Oxford, United Kingdom

LB-5458

Engineering a self-targeting entry inhibitor for vectored malaria prophylaxis

Shuhao Xiao, RAJEEV PANDEY, Cameron Bell, Garima Verma, Gary Ketner, **PRAKASH SRINIVASAN**

JOHNS HOPKINS SCHOOL OF PUBLIC HEALTH, BALTIMORE, MD, United States

LB-5459

Flow cytometry Evaluation of Dormant Young Trophozoites of *Plasmodium falciparum* after In Vitro Pressure with Artemisinin-based Combination Therapy

Rosa Del Carmen Vargas Rodriguez¹, Andrés Jimenez Galisteo Jr², Maria de Jesus Costa do Nascimento³, Silvia Maria Di Santi⁴

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Superintendência de Controle de Endemias, São Paulo, Brazil, ⁴Faculdade de Medicina, Universidade de São Paulo, São Paulo, Brazil

LB-5460

CYTOKINE AND CORTICOSTEROID PROFILE OF PATIENTS WITH *PLASMODIUM FALCIPARUM* MALARIA IN LAGOS, NIGERIA

Abel O. Idowu¹, Anthony Azenabor², Sanjib Bhattacharyya³, Wellington A. Oyibo⁴, Udoma Mendie¹

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LB-5461

A Potent Malaria Vaccine Adjuvant Based on Spontaneous Nanoliposome-Antigen Particleization (SNAP)

Jonathan F. Lovell¹, Kazutoyo Miura², Wei-Chiao Huang¹, Rick King³, Shwu-Maan Lee³

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Poster Session C
Late Breakers in Basic Sciences
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LB-5462

Structural characterization and functional analysis of the attachment and fusion glycoproteins of Mojiang virus, a newly identified henipavirus

Sofia Cheliout Da Silva, Christopher C. Broder
Uniformed Services University of Health Sciences, Bethesda, MD, United States

LB-5463

Molecular simulations of antibody-dependent enhancement of infection in severe dengue disease

Daniel R. Ripoll, Anders S. Wallqvist, **Sidhartha Chaudhury**
BHSAI, U.S. Army Medical Research and Materiel Command, Fort Detrick, MD, United States

LB-5464

Teaching an old drug new tricks: fluoroquinolones suppress replication of Zika virus in cultured cells and mice

Stacey L. Scroggs¹, Ramesh Chinnasamy¹, Sasha R. Azar², Jeffrey B. Arterburn¹, Kathryn A. Hanley¹, Shannan L. Rossi²

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LB-5465

Characterization of lifecycle and growth kinetics of Mayaro virus in vertebrate and invertebrate cells

Sujit K. Pujhari, Marco Brustolin, Jason L. Rasgon
Pennsylvania State University, State College, PA, United States

LB-5466

CD4⁺T cells protect from Zika disease in a mouse model of infection

Mariah Hassert, Kyle J. Wolf, Katherine E. Schwetye, Richard J. DiPaolo, James D. Brien, **Amelia K. Pinto**
Saint Louis University, Saint Louis, MO, United States

LB-5467

FcyRIIIa-mediated dengue infection enhances viral load and predicts symptomatic infections

Natalie K. Thulin¹, R. Camille Brewer¹, Daniel Library², Taia T. Wang¹

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LB-5468

Minimal pathology and mosquito infectivity of Zika virus (ZIKV) in viremic cynomolgus macaques

Sasha R. Azar¹, Shannan L. Rossi¹, Sherry L. Haller¹, Jessica A. Plante¹, Juan P. Olano¹, Kathryn A. Hanley², Scott C. Weaver¹, Nikos Vasilakis¹

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LB-5469

Detecting Filovirus exposure in canines from Ebola virus affected communities in Liberia - a preliminary report

Brien K. Haun¹, Varney Kamara², Abigail S. Dweh³, Kianalei Garalde-Machida⁴, Saymajunkon S. Forkay³, Melissa Takaaze⁴, Madhuri Namekar⁴, Teri Wong⁴, Ayesha B. Woto³, Peter Humphreys³, Ophelia I. Weeks³, Mosoka P. Fallah⁵, John Berestecky⁴, Vivek R. Nerurkar⁴, Axel T. Lehrer⁴

¹*Department of Cell and Molecular Biology, University of Hawaii, Honolulu, HI, United States*, ²*Leo Q Ludlum Central Veterinary Laboratory, Ministry of Agriculture, Republic of Liberia, Fendall, Liberia*,

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LB-5470

Polyfunctional T lymphocytes as an additional mechanism for HTLV-1 inflammatory status

Marcos González, Daniel Hoces, Karen Luhmann, Elsa González, Martin Montes
Universidad Peruana Cayetano Heredia, Lima, Peru

Poster Session C
Late Breakers in Basic Sciences
Wednesday, October 31, Noon - 1:45 p.m.

LB-5471

Antibiotic-resistant coliforms in hospital and community sewage in Peru

Guillermo Salvatierra¹, E. Espinoza¹, B. Ayzanoa¹, M. Calderón², L. Cabrera², C. Santillán³, R. Gilman⁴, P. Tsukayama¹

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LB-5472

Impact of Household Characteristics and Built Environment on Mosquito Capture Rates in Rural Ecuador

Rachel J. Sippy¹, Froilan Heras Heras², Erin Mordecai³, Sadie Ryan⁴, Anna Stewart Ibarra¹

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Comunitaria, Machala, Ecuador, ³*Stanford University, Stanford, CA, United States*, ⁴*University of Florida, Gainesville, FL, United States*

LB-5473

Detection of enteropathogens in household supply waters throughout Dhaka, Bangladesh using a customized TaqMan Array Card

Tahmina Ahmed¹, Tania Ferdousi¹, Md Abdul Karim¹, Fahmida Sarkar¹, Rashidul Haque¹, Jie Liu², James Platts-Mills², Eric Houpt², Mami Taniuchi²

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LB-5474

Spatial proximity to wastewater used for irrigation and diarrheal disease among children in the Mezquital Valley, Mexico

Jesse D. Contreras¹, Joseph NS Eisenberg¹, Horacio Riojas-Rodríguez², Joshua L. Warren³, Jonathan L. Zelner¹

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Poster Session 133

Poster Session C

Late Breakers in Clinical and Applied Sciences

Wednesday, October 31, Noon - 1:45 p.m.

Marriott - Grand Ballroom (3rd Floor)

Bacteriology and Diarrhea	#LB-5475 through LB-5485
Global Health.....	#LB-5486 through LB-5513
HIV and Tropical Co-Infections.....	#LB-5514 through LB-5518
Kinetoplastida	#LB-5519 through LB-5529
Malaria	#LB-5530 through LB-5566
Pneumonia, Respiratory Infections and Tuberculosis	#LB-5567 through LB-5572
Protozoa	#LB-5573 through LB-5576
Trematodes	#LB-5577 through LB-5581
Viruses	#LB-5582 through LB-5595

LB-5475

A randomized observer blinded controlled non inferiority trial to evaluate the immunogenicity of locally manufactured Meningococcal ACWY vaccine in Bangladeshi healthy adults

Mohiul I. Chowdhury¹, Tasnuva Ahmed¹, Taufiqur R. Bhuiyan¹, Md. K. Mannoor², Golam S. Bhuyan², Firdausi Qadri¹
¹*icddr,b, Dhaka, Bangladesh, ²ideSHI, Dhaka, Bangladesh*

LB-5476

Oral Cholera Vaccination - Self Administration Strategy of OCV in Urban Dhaka, Bangladesh

Ashraful I. Khan, Muhammad S. Islam, Mohiul I. Chowdhury, Fahima Chowdhury, Md. Taufiqul Islam, Azimuddin Ahmed, Md. Ashraf Uddin Siddik, John D. Clemens, Firdausi Qadri
icddr,b, Dhaka, Bangladesh

LB-5477

Antimicrobial Drugs Resistance Pattern and Clinical Outcome of Culture-Positive Enteric Fever Patients in an Urban Slum Area of Bangladesh

Farhana Khanam, Firdausi Qadri
International Centre for Diarrhoeal Disease Research, Bangladesh, Dhaka, Bangladesh

LB-5478

South American scrub typhus: first case series from continental Chile

Thomas Weitzel¹, Constanza Martínez-Valdebenito², Gerardo Acosta-Jamett³, Ju Jiang⁴, María Pilar Gambra⁵, Teresa Bidart⁵, Miguel Lagos⁶, Allen L. Richards⁴, Katia Abarca²

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²*Departamento de Enfermedades Infecciosas e*

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³*Instituto de Medicina Preventiva Veterinaria y Programa de Investigación Aplicada en Fauna Silvestre, Facultad de Ciencias Veterinarias, Universidad Austral, Valdivia, Chile,*

⁴Viral and Rickettsial Diseases Department, Naval Medical Research Center, Silver Spring, MD, United States,

⁵*Clinica Santa María, Santiago, Chile, ⁶Hospital Los Angeles, Los Angeles, Chile*

LB-5479

Disease burden of enteric fever: a descriptive analysis from a nationwide surveillance in Bangladesh, 2014-2015

Md. Taufiqul Islam¹, Ashraful I. Khan¹, Farhana Khanam¹, Golam S. Bhuyan², Asifuzaman Rahat², M. Salim uzZaman³, Dilruba Ahmed¹, Meerjady S. Flora³, Mahmudur Rahman³, Firdausi Qadri¹

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Poster Session C
Late Breakers in Clinical and Applied Sciences
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LB-5480

The rotavirus vaccine impact on under five childhood morbidity and mortality related to a diarrheal episode after introduction of rotavirus vaccine in The Gambia

M. Jahangir Hossain Hossain¹, Dilruba Nasrin², Joquina Chiquita M. Jones¹, Syed M.A. Zaman¹, Henry Badji¹, Sharon M. Tennant², Irene Kasumba², Helen Powell², Kathleen M. Neuzil², Anna Roose², Martin Antonio¹, Milagritos Tapia², Karen L. Kotloff²
¹Medical Research Council Unit The Gambia at the London School of Hygiene & Tropical Medicine, Banjul, Gambia, ²Center for Vaccine Development, University of Maryland School of Medicine, Baltimore, MD, United States

LB-5481

Relationship between timing and severity of diarrhea and linear growth in the first year among HIV exposed, uninfected infants in Kenya

EMILY L. DEICHSEL¹, Grace C. John-Stewart¹, Judd L. Walson¹, Dorothy Mbori-Ngacha², Barbra A. Richardson¹, Brandon L. Guthrie¹, Carey Farquhar¹, Rose Bosire³, Patricia B. Pavlinac¹
¹University of Washington, Seattle, WA, United States, ²United Nations Children's Fund (UNICEF), New York, NY, United States, ³Center for Public Health Research, Kenya Medical Research Institute (KEMRI), Nairobi, Kenya

LB-5482

Prevalence of trachoma knowledge and awareness following 3 to 5 years of the SAFE Strategy in Amhara, Ethiopia

Christina E. Roberts¹, Tigist Astale², Eshetu Sata², Mulat Zerihun², Aisha E.P. Stewart¹, Andrew W. Nute¹, Demelash Gessese², Gedefaw Ayenaw², Zebene Ayele², Berhanu Melak², Melsew Chanyalew³, Zerihun Tadesse², E. Kelly Callahan¹, Scott D. Nash¹
¹The Carter Center, Atlanta, GA, United States, ²The Carter Center, Addis Ababa, Ethiopia, ³Amhara Regional Health Bureau, Bahir Dar, Ethiopia

LB-5483

Recombinant probiotic bacterial therapy for intestinal nematodes

Kelly A. Flanagan, Hanchen Li, David Gazzola, Tasia Kellogg, Raffi Aroian
UMass Medical School, Worcester, MA, United States

LB-5484

Performance of diagnostics and case classification during an outbreak of pneumonic and bubonic plague in Madagascar, 2017

Quirine Astrid ten Bosch¹, Voahangy Andrianaivoarimanana², Beza Ramasindrazana², Guillain Mikaty¹, Rado J. Rakotonanahary², Marie Melocco², Birgit Nikolay¹, Soloandry Rahajandraibe², Maxence Feher¹, Juliette Paireau¹, Rindra Randremana², Feno Rakotoarimanana², Anne-Sophie Le Guern¹, Voahangy Rasolof², André Spiegel², Laurence Baril², Minoarisoa Rajerison², Simon Cauchemez¹

¹Institut Pasteur - Paris, Paris, France, ²Institut Pasteur de Madagascar, Antananarivo, Madagascar

LB-5485

Molecular diversity of carbapenem-resistant *Acinetobacter baumannii* recovered from Jordanian hospitals

Qutaiba Ababneh, Ziad Jaradat, Neda'a Aldaken, Duaa Al-Awneh
Jordan University of Science & Technology, Irbid, Jordan

LB-5486

Ethnic Disparities and Potential Mediators of Chikungunya Disease in Fortaleza, Brazil

Mabel Carabali¹, Antonio Lima Neto², Geziel dos Santos de Sousa², Andrea Caprara³, Jay S. Kaufman¹
¹McGill University, Montreal, QC, Canada, ²Secretary of Health, Surveillance Unit, Fortaleza, CE, Brazil,
³Universidad Estadual de Ceara, Fortaleza, CE, Brazil

LB-5487

Seroconversion in patients with Chagas disease treated at a U.S. clinic

Salvador Hernandez, Colin Forsyth, Jose Amadeo Flores Castro, Sheba K. Meymandi
Center of Excellence for Chagas Disease at Olive View-UCLA Medical Center, Sylmar, CA, United States

Poster Session C
Late Breakers in Clinical and Applied Sciences
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LB-5488

Diagnostic challenges in childhood pneumonia: lessons learned in selecting a reference standard for validating new respiratory rate counting aids

Kevin Nicholas Baker¹, Charlotte Ward¹, Sarah Marks¹, Dawit Getachew², Tedila Habte³, Cindy McWhorter⁴, Paul LaBarre⁴, Max Petzold⁵, Karin Källander¹

¹Malaria Consortium, London, United Kingdom,
²Malaria Consortium, Addis Ababa, Ethiopia, ³Malaria Consortium, Hawassa, Ethiopia, ⁴UNICEF Supply Division, Copenhagen, Denmark, ⁵University of Gothenburg, Gothenburg, Sweden

LB-5489

Patterns of spread and impact of climate on dengue in Bangkok, Thailand, from 2010 to 2016

Nattwut Ekapirat¹, Darin Areechokchai², Richard Maude¹

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LB-5490

Impact of cluster location and displacement on coverage estimates generated by linking household and healthcare provider surveys

Emily D. Carter¹, Micky Ndhlovu², Melinda K. Munos¹

¹Johns Hopkins School of Public Health, Baltimore, MD, United States, ²Chainama College of Health Sciences, Lusaka, Zambia

LB-5491

Community based surveillance of unusual public health events in Burkina Faso: implementation process and preliminary results in 3 pilot sites

Brice Bicaba

Directorate of Health Population Prevention, Ouagadougou, Burkina Faso

LB-5492

Civil Conflict and Urban Agriculture in the Sub-Saharan Tropics: The Democratic Republic of the Congo as a Case Study

Benjamin Redmond, **Miguel Reina Ortiz**
University of South Florida, Tampa, FL, United States

LB-5493

A call for practical and country-specific entomological guidance

Elodie Vajda¹, Allison Tatarsky¹, Sheila Ogoma², Eileen Jeffrey Gutiérrez³, Neil F. Lobo⁴

¹University of California, San Francisco (UCSF), San Francisco, CA, United States, ²Clinton Health Access Initiative, Boston, MA, United States, ³University of Arizona, Tucson, AZ, United States, ⁴University of Notre Dame, Notre Dame, IN, United States

LB-5494

Impact of Anithelmintic Treatment on Attractiveness of *Anopheles* to Subjects presenting Malaria and Schistosomiasis Co-infection

Oumou Maiga-Ascofaré¹, Sandra Baffour-Awuah¹, Eva Lorenz², Anthony Sarfo Acquah¹, Patrick Obuam¹, Richard Larbi¹, Henry Hanson Hanson¹, Jürgen May², Ellis Owusu-Dabo³

¹Kumasi Centre for Collaborative Research in Tropical Medicine, Kumasi, Ghana, ²Bernhard Nocht Institute for Tropical Medicine, Hamburg, Germany, ³School of Public Health, College of Health Science, Kumasi, Ghana

LB-5495

Spatial Analysis of Health Facility Access in Guinea

Kory J. Blose¹, Robert D. Fraleigh², Stephen Fast², Maciej F. Boni³, Mamadou S. Bah⁴, Siaka Ouattara⁵, Moussa Condé⁵, Marcel Yaradouno⁵, Isabelle Amblard⁵

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³Department of Biology, The Pennsylvania State University, State College, PA, United States, ⁴Ministry of Health and Public Hygiene, Conakry, Guinea, ⁵Mérieux Fondation, Lyon, France

Poster Session C
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LB-5496

Achieving an innovative and sustainable Performance-Based Financing program with the introduction of Risk Based Verification and Skills Based Quality Assessments in Lesotho

Ntoetse Mofoka¹, Palesa Henson¹, **Ismael Amri Sued**², Clarisse Uzamukunda³, Marion Dols⁴, Carole Abourached⁵

¹Ministry of Health, Maseru, Lesotho, ²Medical Care Development International, Maseru, Lesotho, ³Health Works (former HealthNet TPO), Maseru, Lesotho, ⁴Health Works (former HealthNet TPO), Amsterdam, Netherlands, ⁵Medical Care Development International, Silver Spring, MD, United States

LB-5497

Increasing workforce capacity and adherence to Integrated Management of Childhood Illness (IMCI) protocol using an integrated clinical assessment platform with embedded training

Barry Finette¹, Aisha Giwa², Nirmal Ravi², Ezra Mount-Finette¹, Megan McLaughlin¹
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LB-5498

IMPACT AND OUT-OF-POCKET COSTS OF DENGUE ILLNESS IN INTERNATIONAL TRAVELERS: AN EXPLORATORY PROSPECTIVE STUDY

Yesim Tozan¹, Tyler Y. Headley², Maquines Odhiambo Sewe³, Eli Schwartz⁴, Tamar Shemesh⁵, Jakob P. Cramer⁶, Kirsten A. Eberhardt⁷, Michael Ramharter⁸, Nicole Harrison⁹, Karin Leder¹⁰, Andrea Angheben¹¹, Christopher Hatz¹², Andreas Neumayr¹², Lin Hwei Chen¹³, Martin P. Grobusch¹⁴, Cornelis de Pijper¹⁴, Annelies Wilder-Smith¹⁵
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Vienna, Vienna, Austria, ¹⁰Monash University, Infectious Disease Epidemiology Unit, Melbourne, Australia, ¹¹Centro per le Malattie Tropicali Ospedale Classificato Equiparato Sacro Cuore - Don Calabria, Verona, Italy, ¹²Swiss Tropical and Public Health Institute, Basel, Switzerland, ¹³Mount Auburn Hospital, Travel Medicine Center, Cambridge, MA, United States, ¹⁴Department of Infectious Diseases, Division of Internal Medicine, Amsterdam University Medical Centers, University of Amsterdam, Amsterdam, Netherlands, ¹⁵Lee Kong Chian School of Medicine, Nanyang Technological University, Singapore, Singapore

LB-5499

Toll-like receptor agonist chemistries and protein microarray tools for development of a *Coxiella burnetii* subunit vaccine that protects against an aerosol challenge

Medalyn Supnet¹, Adrienne Gilkes¹, Tyler Albin², Saikat Manna³, Sara Ruiz⁴, Janine Tom², Aarti Jain¹, Rie Nakajima¹, Jilin Felgner¹, Huw Davies¹, Aysegul Nalca⁴, Philip Felgner¹, Aaron Esser-Kahn³, Amanda Burkhardt¹

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²Department of Chemistry, University of California, Irvine, Irvine, CA, United States, ³The Institute for Molecular Engineering, University of Chicago, Chicago, IL, United States, ⁴United States Army Medical Research Institute of Infectious Diseases, Frederick, MD, United States

LB-5500

Transbiotics™, a novel paratransgenesis method to control vector-borne pathogens

Konstantinos Lymeropoulos¹, Andrew E. Thran¹, Corey L. Campbell², Brad R. Borlee², Rebekah C. Kading², Gabriel L. Hamer³, Kenneth E. Olson², William Black², Richard Sayre¹

¹Pebble Labs USA Inc, Los Alamos, NM, United States, ²Colorado State University, Fort Collins, CO, United States, ³Texas A&M University, College Station, TX, United States

LB-5501

West African village characterization using satellite imagery and object image recognition technologies

JEFFREY G. SHAFFER, Christian J. Geneus, Frances J. Mather
Tulane University, New Orleans, LA, United States

Poster Session C
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LB-5502

A novel host-transcript based diagnostic signature for discriminating bacterial and viral infections

Stephen J. Popper¹, Aditya Rao¹, Anisone Chanthongthip², Matthew Robinson², Paul N. Newton², Jason Andrews¹, David A. Relman¹, Purvesh Khatri¹

¹Stanford University School of Medicine, Stanford, CA, United States, ²Lao-Oxford_Mahosot Hospital-Wellcome Trust Research Unit, Vientiane, Lao People's Democratic Republic

LB-5503

Specificity and cross-reactivity of influenza virus hemagglutinin-specific antibodies: a protein microarray as a tool for influenza serosurveillance

Rie Nakajima

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

LB-5504

Association of an episode of diarrhea with linear growth faltering: The VIDA study

Dilruba Nasrin¹, Helen Powell¹, Samba Sow², Richard Omore³, Jahangir Hossain⁴, Anna Roose¹, Sharon Tennant¹, Irene Kasumba¹, Yuanyuan Liang¹, Usha Ramakrishnan⁵, Boubou Tamboura², Martin Antonio⁴, John B. Ochieng³, Karen Kotloff¹

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LB-5505

Assessing the impact of rotavirus vaccine introduction on the overall diarrheal disease: A comparison of the GEMS and VIDA studies

Helen Powell¹, Samba Sow², Richard Omore³, Jahangir Hossain⁴, Dilruba Nasrin¹, Anna Roose¹, Sharon Tennant¹, Irene Kasumba¹, Yuanyuan Liang¹, Boubou Tamboura², Martin Antonio⁴, John B. Ochieng³, Karen Kotloff¹

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LB-5506

Community based Assessment of Antibiotic Resistant *Escherichia coli* in Quetzaltenango, Guatemala

Brooke M. Ramay¹, Claudia Jarquin¹, Diego Archila¹, M. Purificacion Moreno¹, John McCracken¹, Celia Cordon¹, Guy Palmer², Doug Call²

¹Universidad del Valle de Guatemala, Center for Health Studies, Guatemala, Guatemala, ²Paul G. Allen School for Global Animal Health at Washington State University, Pullman, WA, United States

LB-5507

Building urban climate resilience through public health: Identifying strategies for integrated public health governance in Duran, Ecuador

Mercy J. Borbor-Cordova¹, Anna M. Stewart-Ibarra², Indira Nolivos¹, Gladys Rincon¹, Ashley Casierra¹, Craig A. Johnson³, Alessandro Pezzoli⁴

¹Escuela Superior Politecnica del Litoral, ESPOL, Guayaquil, Guayas, Ecuador, ²Center for Global Health and Translational Science and Department of Medicine, SUNY Upstate Medical University, Syracuse, NY, United States, ³Department of Political Science, University of Guelph, East Guelph Ontario, ON, Canada, ⁴Interuniversity Department of Regional and Urban Studies and Planning, Politecnico de Torino, Torino, Italy

LB-5508

Maternal vaginal colonization with selected potential pathogens of neonatal sepsis in the era of antimicrobial resistance at a tertiary hospital in Addis Ababa, Ethiopia

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LB-5509

Severity assessment of acquired diarrhea among U.S. Military and Western travelers (Global Travelers' Diarrhea Study)

Hayley Ashbaugh¹, June M. Early², Mark P. Simons³, Paul C. Graf⁴, Mark S. Riddle⁵, Brett E. Swierczewski⁶

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LB-5510

Effectiveness & Feasibility of Zika Prevention Behaviors Through the Eyes of Key Audiences in Guatemala and El Salvador

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LB-5511

Task shifting in emergency medicine improves malaria care for febrile children in Uganda

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LB-5512

Rohingya crisis in Bangladesh: summary of findings from pooled mortality surveys

Ruby Siddiqui
Medecins Sans Frontieres, London, United Kingdom

LB-5513

Developing Infection Prevention and Control (IPC) Capabilities in a Clinical Research team for Filovirus Outbreaks in Uganda

Rodgers Ayebare¹, Peter Waitt¹, Saima Zaman², Willy Kayondo³, Mohammed Lamorde¹, Hannah Kibuuka³, Stephen Okello³, Karen Martins⁴, Nahid

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LB-5514

Effect of HAART Combinations on Lipid Metabolism and Cd4+ Count of HIV Patients: A Case Control Study of the Asikuma Odoben Breman Asikuma

Bright B. Nkofahene

Our Lady of Grace Hospital, Breman Asikuma, Ghana

LB-5515

HIV-1 treatment failure > for associated risk factors among adult HIV patients taking first line antiretroviral therapy in Ethiopia; A cohort study

Yimam G. Misganie

Ethiopian Public Health Institute, Addis Ababa, Ethiopia

LB-5516

Cardiovascular Disease Risk in HIV-infected patients: awareness is not enough

Roumen Jordanov, Fahim Pyarali, Alexander Toirac, Gerardo Zablah, Tahir Haque, Fahad Al Halban, Rajiv Parmar, Catherine Boulanger, Alexis Powell, Maria Alcaide, Barry Hurwitz, Michael Kolber, Neil Schneiderman, Claudia Martinez
Jackson Memorial Hospital - University of Miami Health System, Miami, FL, United States

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LB-5517

Diagnosis of Toxoplasmic Encephalitis in Persons Living with HIV in Urine

Hannah E. Steinberg¹, Paul Russo², Andrea Diestra³, Cusi Ferradas³, Maritza Calderon³, Jeroen Bok⁴, Linda Chanamé Pinedo⁴, Deanna Zhu⁵, Gaston Valencia⁴, Cesar Ramal⁶, Javier Bustos³, Natalie M. Bowman⁵, Lance Liotta², Alessandra Luchini², Robert H. Gilman⁴

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LB-5518

Evolution of CADM1 and CD7 expression in CD4+ T-lymphocytes of HTLV-1 patients receiving antihelminth therapy for active *Strongyloides stercoralis* co-infection

Sebastian Echeandia¹, John Bocanegra¹, Martin Montes¹, Jessica Stauber², Elsa Gonzalez¹, Eduardo Gotuzzo¹

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LB-5519

Measurement of *Trypanozoma cruzi*-specific antibody producing cells as a marker of treatment efficacy in chronic Chagas Disease

Gonzalo Cesar¹, María Cecilia Albareda¹, HuiFeng Shen², María G. Alvarez³, Bruno Lococo³, Graciela Bertocchi³, Melisa D. Castro Eiro¹, Rick L. Tarleton², Susana A. Laucella¹

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LB-5520

Topical 15% paromomycin-aquaphilic for Bolivian *L. braziliensis* cutaneous leishmaniasis: a randomized, placebo controlled trial

Jaime Soto¹, Paula Soto¹, Andrea Ajata², Carmelo Luque², Carlos Tintaya², David Paz³, Daniela Rivero³, **Jonathan (Josh) Berman**⁴

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LB-5521

Evaluation of possible non- human reservoirs for VL transmission in Bihar, India

Anurag K. Kushwaha¹, Puja Tiwary¹, Shakti K. Singh², Dhiraj Singh², Rahul Chaubey², Edgar Rowton³, Philip Lawyer⁴, David Sacks⁵, Christine A. Petersen⁶, Shyam Sundar¹

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LB-5522

Ethnopharmaceuticals for the Treatment of Cutaneous Leishmaniasis

Ruwandi Kariyawasam¹, Priyanka Challa¹, Emma Hagopian¹, Eric Shao², Jason Kwan³, Hira Raheel¹, Tianna Chong-Kit⁴, Swana KopalaKrishnan⁵, Anjola Ogunsina⁵, Olamide Egbebumi³, Sonia Igboanugo³, Avinash Mukkala¹, Andrea K. Boggild¹

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LB-5523

Interrogating the Spectrum of Bacterial Pathogens in Ulcers of Cutaneous Leishmaniasis

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LB-5524

Accuracy of Diagnostics in Tegumentary Leishmaniasis: A Systematic Review

Melissa Sen Phuong¹, Rachel Lau², Robert Chris³, Eric Shao⁴, Sonia Igboanugo⁵, Ruwandi Kariyawasam⁶, Hira Raheel⁶, Sharmistha Mishra⁶, **Andrea K. Boggild**⁶

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LB-5525

A Systematic Review of Wound Care in the Management of Cutaneous Leishmaniasis

David Harris¹, Ruwandi Kariyawasam¹, Christian Lecce², Avinash Mukkala¹, **Andrea K. Boggild**¹

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LB-5526

Determination of fexinidazole effect on QTc in healthy volunteers and human African *Trypanosomia brucei gambiense* trypanosomiasis (g-HAT) patients using concentration-response modelling

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LB-5527

Sequential versus Classical Designs for Early Phase Drug Trials Against Visceral Leishmaniasis

Neal D. Alexander¹, Fabiana Alves², Manica Balasegaram², Séverine Blesson², Sakib Burza³, Tansy Edwards¹, Raymond Omollo⁴, Monique Wasunna⁴
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LB-5528

Comparative Evaluation of Conventional, Quantitative and Droplet Digital PCR on Whole

Human Blood for the Molecular Diagnosis of Chagas Disease

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LB-5529

Treatment of congenital Chagas in Percy Boland Maternity Hospital, Santa Cruz, Bolivia

Freddy Tinajeros¹, María del Carmen Menduiña², Page Keating³, Edwad Valencia⁴, Jean Karla Velarde¹, Clariza Chavez¹, Edith Malaga⁴, Federico Urquiza², Manuela Verástegui⁴, Robert Gilman³

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LB-5530

Diversity of the kelch propeller domain gene (k13) polymorphisms in *Plasmodium falciparum* isolates from Ghana

Sena A. Matrevi¹, Neils B. Quashie¹, Philip Opoku-Agyeman¹, Benjamin Abuaku¹, Kwadwo A. Koram¹, Andrew G. Letizia², Nancy O. Duah¹

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LB-5531

Analysis of PfHRP2 and PfHRP3 Deletions in the Western Kenyan *Plasmodium falciparum* Population

Nathaniel Dizon¹, Samuel Elberts¹, Karina Rivas¹, Janet Oyeko², Carolyn M. Kifude², Shirley Luckhart³, V. Ann Stewart¹

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LB-5532

A cluster randomized trial to measure the impact of indoor residual spraying with a third-generation indoor residual spray (3GIRS) product in combination with long-lasting insecticide-treated nets in Zambezia, Mozambique

Carlos Chaccour¹, Christelle Gogue², Joseph Wagman², Kenzie Tynuv², Sergi Alonso¹, Rose Zulliger³, Amilcar Nacima⁴, Eldo Elobolobo⁴, Binete Savaio⁵, Abuchahama Saifodine⁶, Baltazar Candrinho⁷, Kenyssony Verela⁸, Jason Richardson⁹, Molly Robertson², **Francisco Saute⁴**

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LB-5533

Targeted indoor spraying: a cost effective strategy for malaria control in low transmission settings? Results from a non-inferiority cluster randomised trial in South Africa

Jackie Cook¹, David Bath¹, Natashia Morris², Rajendra Maharaj², John Govere³, Phillemon Matebula³, Khumbulani Hlongwana⁴, Jaishree Raman⁵, Eunice Agubuzo⁵, Ishen Seocharan², Joseph Biggs¹, Alpheus Zitha⁶, Elliot Machaba⁶, Matimba Zita³, Eric Mabunda⁷, Aaron Mabuza⁶, Philip Kruger⁶, Chris Drakeley¹, Maureen Coetzee³, Immo Kleinschmidt¹

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LB-5534

Pregnancy outcomes in women exposed to dihydroartemisinin-piperaquine during first trimester of pregnancy in Indonesia- a retrospective record linkage study

Rukhsana Ahmed¹, Kerryn A. Moore², Theda Lukito³, Andre'-Marie Touchatieu⁴, Stephanie Dellicour¹, Feiko terKuile¹, Ric N. Price⁵, Julie A. Simpson⁶, Jeanne R. Poespoprodjo⁷

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LB-5535

Using human sera to profile antibody isotype responses to a panel of *P. knowlesi*-specific recombinant antigens

Lou S. Herman¹, Tate Oulton¹, Katherine A. Glass¹, Kimberly Fornace¹, Matthew J. Grigg², Nicholas M. Anstey², Timothy William³, Michael J. Blackman⁴, Chris J. Drakeley¹, Kevin K. Tetteh¹

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LB-5536

Rapid assessment to select sites for targeted malaria elimination interventions in Grand'Anse, Haiti

Karen E. Hamre¹, Amber M. Dismore¹, Eric Rogier¹, Lotus L. van den Hoogen², Emilie Pothin³, Alyssa Young⁴, Katherine E. Battle⁵, Ewan Cameron⁵, Milen Nikolov⁶, Nick W. Ruktanonchai⁷, Mérilien Jean-Baptiste⁸, Bernadette Fouché⁹, Jacques Boncy⁸, Thomas P. Eisele¹⁰, Chris Drakeley¹¹, Jean-Frantz Lemoine⁸, Michelle A. Chang¹

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LB-5537

Bayesian modeling to assess the effects of malaria interventions on the geographical distribution of malaria parasite infection risk in Liberia

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LB-5538

Characterizing *Plasmodium falciparum* genetic diversity in two villages of Mali

Aoua Coulibaly¹, Aminatou Kone¹, Antoine Dara¹, Abdoulaye Djimde¹, Nicola Mulder², Olivo Miotto³
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LB-5539

Effectiveness of artemisinin-based combination therapies under operational conditions in Senegal

Roger C. TINE, Khadime Sylla, Doudou Sow, Ibou Gueye, Jean L. Ndiaye, Magatte Ndiaye, Kouakou Folly, Oumar Gaye, Babacar Faye
Department of Medical Parasitology, University Cheikh Anta Diop, Senegal, Dakar, Senegal

LB-5540

Improving Health Facility Based Continuous ITN Distribution in Ghana

Richard Kpabitey¹, Sylvester Segbaya¹, Hannah Koenker², Matthew Lynch², Keziah Malm³, Francis Ocloo³, Danielle Piccinini², Robert Opoku¹, Mavis Osafu¹, Victor Laryea¹, Vivian Abiwu¹, Miriam Gyasi¹, Prince Owusu¹, Ato Selby⁴

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LB-5541

Comparison of Malaria Risk Prediction Using Routine Surveillance Data and Serological Prevalence in the Pre-Elimination Setting of Zambezi, Namibia

Adrienne Epstein¹, Davis Mumbengegwi², Munyaradzi Tambo², Lucille Dausab², Lindsey Wu³, Oliver Medzihradsky¹, Patrick McCreesh¹, Sofonias Tessema¹, Kathryn Roberts¹, Griffith Siloka⁴, Jennifer Smith¹, Hugh Sturrock¹, Petrina Uusiku⁴, Stark Katokele⁴, Immo Kleinschmidt³, Michelle Roh¹, Kevin Tetteh³, Chris Drakeley³, Bryan Greenhouse¹, Roland Gosling¹, Michelle Hsiang⁵, Adam Bennett¹
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LB-5542

Serological markers for evaluation of *Plasmodium* exposure applied to samples from areas of low malaria transmission

Maria Carmen A. Sanchez, José E. Levi, Giselle F. Lima, Silvia M. Di Santi
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LB-5543

The effects of eliminating malaria funding in the Loreto region of Peru: An observational, time series analysis

Mark Janko¹, Andres G. Lescano², Cristina Recalde³, Carlos Mena⁴, Gabriela Salmon-Mulanovich², Benjamin Zaitchik³, William Pan¹

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LB-5544

Towards malaria elimination: Community-level administration of single low dose primaquine by trained Village Health Workers in Zimbabwe's Beitbridge district

Patience Dhliwayo¹, Busisan Dube¹, Munashe Madinga², Joseph Mberikunashe¹, Lenos Samhere³, Rudo Chikodzore³, Brighton Gambinga²

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LB-5545

Optimal population-level introduction of novel antimalarial compounds in the 2020s

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LB-5546

A semi-quantitative paper-based assay for predicting progression to cerebral malaria

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LB-5547

A prospective cohort study of the dynamic nature of spleen size in children with sickle cell anemia in malarious regions of western Kenya

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LB-5548

ProActive Community Treatment of malaria in rural Togo

Matthew McLaughlin, Margaret Clougherty, David Horner-Ibler, Kyree Rollins
Peace Corps, Washington, DC, United States

LB-5549

Use of novel immunological markers of malaria infection to assess the effectiveness of reactive focal mass drug administration and reactive vector control in Zambezi Region, Namibia

Lindsey Wu¹, Davis Mumbengegwi², Munyaradzi Tambo², Leah Schrubbe³, Henry Ntuku³, Adam Bennett³, Sofonias Tessema⁴, Kathryn Roberts³, Jennifer Smith³, Petrina Uusiku⁵, Stark Katokel⁵, Kevin Tetteh¹, Bryan Greenhouse⁴, Roland Gosling³, Lisa Prach³, Michelle Hsiang⁶, Immo Kleinschmidt¹, Chris Drakeley¹

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LB-550

Genetic Evidence of focal *Plasmodium falciparum* transmission in a pre-elimination setting in Southern Province, Zambia

Julia Pringle¹, Sofonias Tessema², Amy Wesolowski³, Anna Chen², Maxwell Murphy⁴, Giovanna Carpi⁵, Timothy M. Shields³, Harry Hamapumbu⁶, Kelly M. Searle³, Tamaki Kobayashi³, Ben Katowa⁶, Michael Musonda⁶, Jennifer C. Stevenson⁷, Philip E. Thuma⁶, Bryan Greenhouse⁸, William J. Moss³, Douglas E. Norris⁵
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LB-551

Evaluating the impact of programmatic mass drug administration in Zambia using routine incidence data

Maya Fraser¹, John M. Miller², Kafula Silumbe², Michael Hainsworth¹, Mutinta Mudenda³, Busiku Hamainza³, Hawela Moonga³, Elizabeth Chizema³, Thom Eisele⁴, Caterina Guinovart⁵
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LB-552

Gaps along the malaria case management pathway in Mozambique: A cross-sectional health facility survey

Baltazar Cadrinho¹, Mathew Plucinski², James Colborn³, Mariana Da Silva¹, Guidion Mathe¹, Mercy Dimene¹, Ana Rita Chico³, Ana Cristina Castel-Branco³, Frederico Brito⁴, Marcel Andela³, Gabriel Ponce de Leon², Abuchahama Saifodine⁵, Rose

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LB-553

Characteristics of long-lasting insecticide treated nets associated with malaria infection among children under 15 years of age

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LB-554

Clinical relevance of highly sensitive diagnostic tools for the diagnosis of malaria in febrile children in Tanzania

Mary-Anne Hartley¹, Natalie Hofman², Kristina Keitel², Frank Kagoro³, Clara Antunes Moniz², Tarsis Mlaganile³, Josephine Samaka⁴, John Masimba³, Zamzam Said³, Hosiana Temba³, Iveth Gonzalez⁵, Ingrid Felger², Blaise Genton², Valérie D'Acremont²
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LB-555

Effect of Seasonal Malaria Chemoprevention on malaria incidence and prevalence among children less than 5 years old in Dangassa, Mali

Mahamoudou Toure¹, Oumar Thiero¹, Daouda Sanogo¹, Salim Kante¹, Abdoul Salam Keita¹, Idriss Chontene Coulibaly¹, Sekou F. Traore¹, Seydou Doumbia¹, Donald J. Krogstad²
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LB-5556

Advocacy for Sub-National Capacity Building, Ownership, and Domestic Resource Mobilization for Malaria Elimination: Securing Commitments in the Philippines and Thailand

Sara E. Rossi, Erika M. Larson
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LB-5557

Prevalence of malaria parasitaemia, low birthweight and maternal anaemia among Ghanaian women at delivery

David K. Dosoo, Ghana Sulphadoxine-Pyrimethamine Impact Study Team, Kintampo Health Research Centre, Kintampo, Ghana

LB-5558

Levels of HRP2 Antigens and False Negative Histidine-Rich Protein 2 (HRP2)-based Rapid Diagnostic Tests (RDTs) for Malaria in Dioro, Mali

Trevor A. Thompson¹, Lansana Sangaré², Youssouf Diarra², Eric Rogier³, Venkatachalam Udhayakumar³, Ousmane A. Koita², Donald J. Krogstad¹
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LB-5559

Geographic assignment of *P. falciparum* and *P. vivax* infections using genetic data

Maxwell Murphy¹, Sofonias Tessema¹, Anna-Rossa Mupiri², Munyaradzi Tambo², Jennifer L. Smith³, Adam Bennett³, Hugh J. Sturrock³, Roland Gosling³, Davis Mumbengegwi², Michelle S. Hsiang³, Rintis Noviyanti⁴, Hidayat Trimarsanto⁴, Ric Price⁵, Isabel Rodríguez-Barraquer¹, Sarah Auburn⁵, Bryan Greenhouse¹

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LB-5560

Spatial distribution of genetic markers of artemisinin resistance in *Plasmodium falciparum* malaria in Asia

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LB-5561

Epidemiology of malaria in Northeast Thailand a case-control study

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LB-5562

Health Facilities Infrastructure for Malaria Microscopy in supporting Malaria case Management in Nigeria

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Post Market Surveillance of Malaria Rapid Diagnosis Tests in Nigeria

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LB-5564

Health Care Providers' Use of Malaria Rapid Diagnostic Tests in Public Health Facilities in Nigeria

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LB-5565

Capacity of Malaria Microscopists in Private Health Facilities in twelve States of Nigeria

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LB-5566

Cobalt porphyrin-phospholipid for spontaneous nanoliposome-antigen particleization of his-tagged Pfs230

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LB-5567

Pulmonary tuberculosis among health-care workers, A silent threat

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LB-5568

Can community health workers in Ethiopia correctly assess and classify under-five children for symptoms of pneumonia using a new respiratory rate diagnostic aid?

Charlotte Alice Ward¹, Kevin Baker¹, Alice Maurel¹, Tedila Habte², Dawit Getachew³, Cindy McWhorter⁴, Paul LaBarre⁴, Hayalnesh Tarekegn⁵, Max Petzold⁶, Karin Kallander¹
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LB-5569

Community Case Management of Chest Indrawing Pneumonia with oral amoxicillin in children, Nigeria

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LB-5570

Evaluation of microbiological variants to optimize the microscopic and imaging diagnosis of tuberculosis

Jorge Coronel, Mirko Zimic, Patricia Sheen
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LB-5571

Use of Ribosome Profiling and RNA-seq in a Systems Biology-Based Assessment of Immune Responses to Whole Cell and Acellular Pertussis Vaccines in Healthy Infants in Peru

Mariana Leguia¹, Diana Juarez¹, Steev Loyola², Anton Vila-Sanjurjo³, Claudio F. Lanata⁴, Ana I. Gil⁴, Mayita Alvarez⁴, Rubelio Cornejo⁴, Johannes B. Goll⁵, Will F. Hopper⁵, Casey E. Gelber⁵, Leigh M. Howard⁶, Natalia Jimenez⁶, Kathryn M. Edwards⁶, C. Buddy Creech⁶

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LB-5572

Thin-layer-agar for isolation of *Mycobacterium tuberculosis* in cerebrospinal fluid

Renee E. Newby¹, Lizzet I. Martínez², Paola L. Rondan², Eric S. Ramos³, Sumona Datta³, Carlton A. Evans³, Jaime Soria², Joseph Zunt¹

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LB-5573

Comparison of Three Methods for Detecting *Cyclospora cayetanensis* during the 2018 United States Outbreaks

Aimee Boerger, Heather Arguello, Bobbi Pritt
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LB-5574

Epidemiology, Risk Factors, and Spatial Distribution of Giardia Infection in Children in Urban and Rural Bangladesh

Vikram Madan

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LB-5575

New World Cutaneous Leishmaniasis- A new dread: Description of 6 cases

Ekta Bansal, Thomas Kerkering, Dorothy Garner, Douglas Grider

Virginia Tech Carilion School of Medicine, Carilion Clinic, Roanoke, VA, United States

LB-5576

Retrospective Review of Chagas Disease Testing Practices and Patient Characteristics from an Academic Hospital in California

Jeffrey Whitman, Caryn Bern

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LB-5577

Point-of-Care Sample Preparation and Quantitative Diagnosis of *Schistosoma haematobium* using Mobile Phone Microscopy

Maxim Armstrong, Michael D'Ambrosio, Isaac Bogoch, Daniel Fletcher

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LB-5578

Schistosomiasis in Norwegian medical students

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LB-5579

Maternal schistosomiasis japonica and the microbial content of breast milk

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LB-5580

Functional study of *Schistosoma japonicum* fructose-1,6-bisphosphate aldolase

Hannah Wu¹, Sha Zhou², Fang Tian³, Sunthorn Pond-tor¹, Yang Hong⁴, RC Stuart¹, Mario Jiz⁵, Blanca Jarilla⁵, Marianne Sagliba⁵, Amabelle Moreno⁵,

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LB-5581

Impacts of prenatal *S. haematobium* infection on pregnancy outcomes in Kisantu Health Zone, Democratic Republic of the Congo

Adva Gadoth¹, Gisele Mvumbi², Nicole A. Hoff¹, Kamy Musene³, Patrick Mukadi⁴, Jean-Jacques Muyembe⁴, Emile Okitolonda-Wemakoy², Anne Rimoin¹

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LB-5582

Acceptance and Willingness to Pay for a Hypothetical Zika Vaccine: A Cross-Sectional Study in Indonesia

Harapan Harapan¹, Amanda Yufika², Yusuf Nawawi², Nur Wahyuniati³, Samsul Anwar⁴, Fitria Yusri⁵, Novi Haryanti⁶, Nanda P. Wijayanti⁷, Rizal Rizal⁸, Devi Fitriani⁹, Nurul F. Maulida¹⁰, Muhammad Syahriza¹¹, Ikram Ikram³, Try P. Fandoko¹², Muniati Syahadah¹³, Febrivan W. Asrizal¹⁴, Mudatsir Mudatsir³, David A. Groneberg¹⁵, Ruth Müller¹⁵, Allison Imrie¹

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LB-5583

Evaluation of an intensive care unit-like supportive care bundle in Ebola-virus-exposed Rhesus macaques

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LB-5584

Case-control nested in a cohort study of dengue fever in Brazilian municipality

Gerusa M. Figueiredo¹, Expedito Luna¹, Alessandra C. Pellini², Sergio R. Campos¹, Maria R. Cardoso², Jose E. Levi¹, Alvina C. Felix¹, Nathalia C. Souza¹, Claudio C. Pannuti¹, Walter M. Figueiredo³, Angela A. Costa³, Francisco Chiaravalloti-Neto²

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LB-5585

The 2017/2018 Mombasa Chikungunya outbreak may have been driven by a recent virus strain adapted to *Aedes aegypti*

Fredrick L. Eyase¹, Wallace Bulimo¹, Irina M. Berry², Albert Nyunja¹, Samson Limbaso¹, Solomon Langat¹, Hellen Koka¹, Edith Koskei¹, Victor Ofula¹, James Mancuso³, John Distelhorst¹, Richard Jarman², Rosemary Sang¹

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LB-5586

Hepatitis E Virus Seroprevalence in Ecuador and How it Relates to Age, Gender, and Diet

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Does prior dengue virus exposure worsen clinical outcomes of Zika virus infection? A systematic review, pooled analysis and lessons learned

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LB-5588

Knowledge and misconceptions about Zika virus infection in adult Peruvian women of reproductive age during the 2017 epidemic

Armando Pezo, Elisa Juarez, Mahony Reátegui-Rivera, Corina Rusu, Richard Wallace, Andrés G. Lescano
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LB-5589

Dengue hotspot identification in Puerto Rico utilizing historic surveillance data

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LB-5590

A preclinical candidate against dengue virus

Feng Gu
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LB-5591

Characteristics of a subgroup of persons vaccinated during the 2018 Democratic Republic of the Congo Ebola outbreak

Nicole A. Hoff¹, Patrick Mukadi², Steve Ahuka², Michel Kabamba³, Kamy Musene², D'Andre Spencer¹, Megan Halbrook¹, Camile Dzogong⁴, David McIlwain⁵,

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LB-5592

Hierarchical Bayesian spatiotemporal models characterizing the invasion of a novel dengue serotype into Iquitos, Peru

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LB-5593

Modeling mosquito-borne and sexual transmission of Zika virus in an enzootic host, the African green monkey

Andrew D. Haddow, Unai Perez-Sautu, Michael R. Wiley, Lynn J. Miller, Adrienne E. Kimmel, Lucia M. Principe, Suzanne E. Wollen-Roberts, Joshua D. Shamblin, Stephanie M. Valdez, Lisa H. Cazares, William D. Pratt, Franco D. Rossi, Luis Lugo-Roman, Aysegul Nalca, Farooq Nasar, M. Louise M. Pitt
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LB-5594

Detection of IgA and IgM antibodies in Zika virus infection using multiplex serodiagnostic test

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LB-5595

**CELL ADHESION MOLECULE 1 expression by T
cell subsets in Human T leukemia virus 1
associated diseases**

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