

## Young Investigator Award Session E

Sunday, November 5, 2017, 10:00 am - 3:00 pm

Convention Center - Room 331/332 (Level 300)

The Young Investigator Award is presented to outstanding young researchers during the Annual Meeting. This award encourages developing young scientists to pursue careers in various aspects of tropical disease research. Support these young scientists by attending their presentations during this session.

Presentation Number	Title	Author Block
	Judge	Jeff Bailey <i>Pathology, Case Western Reserve University, Cleveland, OH, United States</i>
	Judge	Nicole Gottdenker <i>Odum School of Ecology, University of Georgia, Athens, GA, United States</i>
	Judge	Rebekah Kading <i>Colorado State University, Fort Collins, CO, United States</i>
	Judge	Edward D. Walker <i>Microbiology and Molecular Genetics, Michigan State University, East Lansing, MI, United States</i>
76	Effectiveness of a combined household-level piped water and sanitation intervention in rural Odisha, India on health: a matched cohort study	<b>Heather Reese</b> <sup>1</sup> , Parimita Routray <sup>2</sup> , Sheela Sinharoy <sup>1</sup> , Belen Torondel <sup>2</sup> , Howard Chang <sup>1</sup> , Thomas Clasen <sup>1</sup> <sup>1</sup> <i>Emory University, Atlanta, GA, United States</i> , <sup>2</sup> <i>London School of Hygiene and Tropical Medicine, London, United Kingdom</i>
172	Population Genetics Analysis of <i>Phlebotomus papatasi</i> Sand Flies from North Africa and Middle East Regions Based on Mitochondrial <i>Cytochrome b</i> Haplotypes	<b>Catherine M. Flanley</b> <sup>1</sup> , Omar Hamarsheh <sup>2</sup> , Gwen Stayback <sup>1</sup> , Mariha Wadsworth <sup>1</sup> , Douglas A. Shoue <sup>1</sup> , Mehmet Karakus <sup>3</sup> , Mohammad Reza Yaghoobi-Ershadi <sup>4</sup> , Andreas Kruger <sup>5</sup> , Mary Ann McDowell <sup>1</sup> <sup>1</sup> <i>University of Notre Dame, Notre Dame, IN, United States</i> , <sup>2</sup> <i>Al-Quds University, Jerusalem, Palestinian Territory</i> , <sup>3</sup> <i>Ege University, Izmir, Turkey</i> , <sup>4</sup> <i>Tehran University of Medical Sciences, Tehran, Iran, Islamic Republic of</i> , <sup>5</sup> <i>Bundeswehr Hospital Hamburg, Hamburg, Germany</i>

339	Adaptive Geostatistical Sampling Enables Efficient Identification Of Malaria <i>Hotspots</i> In Repeated Cross-Sectional Surveys In Rural Malawi	<p><b>Michael G. Chipeta</b><sup>1</sup>, Alinune N. Kabaghe<sup>2</sup>, Robert S. McCann<sup>3</sup>, Kamija S. Phiri<sup>4</sup>, Michèle Van Vugt<sup>2</sup>, Willem Takken<sup>3</sup>, Dianne J. Terlouw<sup>5</sup></p> <p><sup>1</sup>Lancaster University, Lancaster, United Kingdom, <sup>2</sup>Academic Medical Centre, University of Amsterdam, Amsterdam, Netherlands, <sup>3</sup>Laboratory of Entomology, Wageningen University and Research, Wageningen, Netherlands, <sup>4</sup>College of Medicine, University of Malawi, Blantyre, Malawi, <sup>5</sup>Malawi Liverpool Wellcome Trust, Blantyre, Malawi</p>
447	Determination of ESBL Prevalence and Common Mechanisms in Enterotoxigenic <i>Escherichia</i> Isolated from Diarrhea Samples Collected in Nepal during 2001-2016	<p><b>Katie R. Margulieux</b><sup>1</sup>, Apichai Srijan<sup>1</sup>, Panida Nobthai<sup>1</sup>, Sirigade Ruekit<sup>1</sup>, Ladaporn Bodhidatta<sup>1</sup>, Prativa Pandey<sup>2</sup>, Oralak Serichantalergs<sup>1</sup>, Sanjaya K. Shrestha<sup>3</sup>, John M. Crawford<sup>1</sup>, Brett Swierczewski<sup>1</sup></p> <p><sup>1</sup>Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, <sup>2</sup>CIWEC Hospital and Travel Medicine Center, Kathmandu, Nepal, <sup>3</sup>Walter Reed/AFRIMS Research Unit Nepal, Kathmandu, Nepal</p>
758	Cytogenetic mechanisms of hybrid male sterility in the <i>Anopheles gambiae</i> complex	<p><b>Jiangtao Liang</b>, Michael Hodge, Igor V. Sharakhov</p> <p>Virginia Tech, Blacksburg, VA, United States</p>
852	A female reproductive protein affects the interaction between <i>Anopheles gambiae</i> mosquitoes and <i>Plasmodium falciparum</i> parasites	<p><b>Perrine Marcenac</b><sup>1</sup>, W. Robert Shaw<sup>1</sup>, Adam South<sup>1</sup>, Evdoxia Kakani<sup>1</sup>, Sara N. Mitchell<sup>1</sup>, Abdoulaye Diabate<sup>2</sup>, Rakiswende S. Yerbanga<sup>2</sup>, Thierry Lefevre<sup>3</sup>, Flaminia Catteruccia<sup>1</sup></p> <p><sup>1</sup>Harvard T. H. Chan School of Public Health, Boston, MA, United States, <sup>2</sup>Institut de Recherche en Sciences de la Sante, Bobo-Dioulasso, Burkina Faso, <sup>3</sup>Institut de Recherche pour le Developpement, Montpellier, France</p>
1036	Within-vector parasite diversity: insights from <i>Plasmodium falciparum</i> deep whole-genome sequencing from field-caught mosquitoes in northern Zambia	<p><b>Giovanna Carpi</b><sup>1</sup>, Julia C. Pringle<sup>1</sup>, Mbanga Muleba<sup>2</sup>, Jennifer C. Stevenson<sup>1</sup>, Mike Chaponda<sup>2</sup>, Modest Mulenga<sup>2</sup>, William J. Moss<sup>3</sup>, Douglas E. Norris<sup>1</sup></p> <p><sup>1</sup>Johns Hopkins Malaria Research Institute,</p>

		<i>Department of Molecular Microbiology and Immunology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, <sup>2</sup>Tropical Diseases Research Center, Ndola, Zambia, <sup>3</sup>Johns Hopkins Malaria Research Institute, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States</i>
1123	<i>"Sleep is leisure for the poor" - Understanding perceptions, barriers and motivators to net care and repair in southern Tanzania</i>	<b>Zawadi D. Mageni</b> <sup>1</sup> , Angel Dillip <sup>1</sup> , Christina Makungu <sup>1</sup> , Karen Kramer <sup>2</sup> , George Greer <sup>3</sup> , Lena M. Lorenz <sup>4</sup> <i><sup>1</sup>Ifakara Health Institute, Dar-es-Salaam, Tanzania, United Republic of, <sup>2</sup>Swiss Tropical and Public Health Institute, Basel, Switzerland, <sup>3</sup>USAID/PMI Tanzania, Dar-es-Salaam, Tanzania, United Republic of, <sup>4</sup>London School of Hygiene &amp; Tropical Medicine, London, United Kingdom</i>
1143	<i>Yersinia pestis</i> survives and replicates in phagocytic amoeba: The continuing search for an environmental plague reservoir	<b>David W. Markman</b> <sup>1</sup> , Michael F. Antolin <sup>1</sup> , Richard A. Bowen <sup>1</sup> , William H. Wheat <sup>1</sup> , Michael E. Woods <sup>2</sup> , Mary Jackson <sup>1</sup> <i><sup>1</sup>Colorado State University, Fort Collins, CO, United States, <sup>2</sup>Centers for Disease Control, Fort Collins, CO, United States</i>
1346	Pharmacokinetic and Pharmacodynamic Modeling for the Prediction of the Mosquitocidal Effect Duration of High-Dose Ivermectin (The IVERMAL PK/PD Model)	<b>Menno R. Smit</b> <sup>1</sup> , Eric O. Ochomo <sup>2</sup> , David Waterhouse <sup>1</sup> , Titus K. Kwambai <sup>3</sup> , Bernard O. Abong'o <sup>2</sup> , Teun Bousema <sup>4</sup> , Nabie M. Bayoh <sup>5</sup> , John E. Gimnig <sup>5</sup> , Aaron M. Samuels <sup>5</sup> , Meghna R. Desai <sup>5</sup> , Penelope A. Phillips-Howard <sup>1</sup> , Simon K. Kariuki <sup>2</sup> , Duolao Wang <sup>1</sup> , Feiko O. ter Kuile <sup>1</sup> , Steve A. Ward <sup>1</sup> , Ghaith Aljayyousi <sup>1</sup> <i><sup>1</sup>Liverpool School of Tropical Medicine, Liverpool, United Kingdom, <sup>2</sup>Kenya Medical Research Institute (KEMRI), Kisumu, Kenya, <sup>3</sup>Kenya Ministry of Health, Kisumu, Kenya, <sup>4</sup>Radboud University Nijmegen Medical Center, Nijmegen, Netherlands, <sup>5</sup>U.S. Centers for Disease Control and Prevention, Atlanta, GA, United States</i>

1432	Modeling the spread of mosquito-borne disease in the Northern Great Plains of the U.S	<b>Hiroko Mori</b> , Motomu Ibaraki, Franklin W. Schwartz <i>The Ohio State University, Columbus, OH, United States</i>
1449	Development of molecular methods for the detection and quantification of Phlebotomine sand fly larval DNA in soil	<b>Ioannis A. Giantsis</b> <sup>1</sup> , Marie Claude Bon <sup>2</sup> , Alexandra Chaskopoulou <sup>1</sup> <sup>1</sup> <i>European Biological Control Laboratory, U.S.D.A. ARS, Thessaloniki, Greece</i> , <sup>2</sup> <i>European Biological Control Laboratory, U.S.D.A. ARS, Montferrier-sur-Lez, France</i>
1463	Steroid hormone signaling in <i>Anopheles gambiae</i> mosquitoes affects the sporogonic cycle of <i>Plasmodium falciparum</i> parasites	<b>Kristine Werling</b> , Maurice Itoe, Douglas Paton, Flaminia Catteruccia <i>Harvard T.H. Chan School of Public Health, Boston, MA, United States</i>
1595	<i>Chromobacterium Csp_P</i> mediates its antimalarial activity through secretion of the HDAC inhibitor romidepsin	<b>Raul G. Saraiva</b> <sup>1</sup> , Callie Huitt-Roehl <sup>2</sup> , Abhai Tripathi <sup>1</sup> , Jürgen Bosch <sup>1</sup> , Craig Townsend <sup>2</sup> , George Dimopoulos <sup>1</sup> <sup>1</sup> <i>Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States</i> , <sup>2</sup> <i>Johns Hopkins University, Baltimore, MD, United States</i>
1827	Comparison of Kato-Katz, Mini-FLOTAC and Multi-Parallel Real-Time Polymerase Chain Reaction Techniques for Detection of Soil-Transmitted Helminths in Feira de Santana, Brazil	<b>Ryan H. Avery</b> <sup>1</sup> , Simone S. Oliveira <sup>2</sup> , Aristeu V. da Silva <sup>2</sup> , Rojelio A. Mejia <sup>3</sup> , Marta M. Silva <sup>4</sup> , Rebecca C. Christofferson <sup>1</sup> , Laura Rinaldi <sup>5</sup> , John B. Malone <sup>1</sup> <sup>1</sup> <i>LSU, Baton Rouge, LA, United States</i> , <sup>2</sup> <i>State University of Feira de Santana, Feira de Santana, Brazil</i> , <sup>3</sup> <i>Baylor College of Medicine, Houston, TX, United States</i> , <sup>4</sup> <i>Federal University of Bahia, Salvador, Brazil</i> , <sup>5</sup> <i>University of Naples Federico II, Naples, Italy</i>
1877	Whole genome DNA sequence capture approach reveals tremendous genetic diversity in intracellular pathogen <i>Theileria parva</i>	<b>Nicholas C. Palmateer</b> <sup>1</sup> , Kyle Tretina <sup>1</sup> , Roger Pelle <sup>2</sup> , Elias Awino <sup>2</sup> , Hanzel T. Gotia <sup>1</sup> , Vish Nene <sup>2</sup> , Claudia A. Daubenberger <sup>3</sup> , Richard P. Bishop <sup>2</sup> , Joana C. Silva <sup>1</sup> <sup>1</sup> <i>University of Maryland School of Medicine, Baltimore, MD, United States</i> , <sup>2</sup> <i>International Livestock Research Institute, Nairobi, Kenya</i> , <sup>3</sup> <i>Swiss Tropical and Public Health Institute and University of Basel, Basel, Switzerland</i>

1983	Timing and spatial heterogeneity of leptospirosis transmission in northeast Thailand	<b>Katharine A. Owers</b> <sup>1</sup> , Soawapak Hinjoy <sup>2</sup> , James E. Childs <sup>1</sup> , Vincent Herbreteau <sup>3</sup> , Peter J. Diggle <sup>4</sup> , Albert I. Ko <sup>1</sup> <i><sup>1</sup>Yale School of Public Health, New Haven, CT, United States, <sup>2</sup>Bureau of Epidemiology, Department of Disease Control, Ministry of Public Health, Nonthaburi, Thailand, <sup>3</sup>IRD, ESPACE-DEV (IRD, UM2, UR, UAG), Saint-Pierre, France, <sup>4</sup>Division of Medicine, Lancaster University, Lancaster, United Kingdom</i>
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