

Young Investigator Award Session D

Sunday, November 13, 2016, 10:00 am - 3:00 pm

Marriott - Room A704

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	Peter Crompton NIH, Rockville, MD, United States.
	Judge	Ann M Moormann University of Massachusetts, Worcester, MA, United States.
	Judge	Miranda Oakley FDA, Silver Spring, MD, United States.
	Judge	Ann Stewart Walter Reed Army Institute of Research, Silver Spring, MD, United States.
38	Plasmodium falciparum PHISTc proteins are required for antigen delivery to the infected erythrocyte surface	Deepali B. Ravel , Pierre-Yves Mantel, Kathleen W. Dantzer, William C. Beyer, Nicolas M. Brancucci, Manoj T. Duraisingh, Matthias Marti <i>Harvard School of Public Health, Boston, MA, United States</i>
362	High Total IgG levels and IgG1 Subclass against MSP10 Protein are Associated to Protection in Asymptomatic Sera from P. falciparum Infected Patients from the Peruvian Amazon Region	Katherine Garro ¹ , Katherine Torres ¹ , Gabriel Carrasco ¹ , Dionicia Gamboa ¹ , Joseph Vinetz ² ¹ <i>Peruvian University Cayetano Heredia, Lima, Peru,</i> ² <i>University of California San Diego, San Diego, CA, United States</i>
696	Thrombospondin Related Sporozoite Protein is important for the establishment of P. falciparum liver stage infection	Charlie Jennison ¹ , Matthew T. O'Neill ¹ , Jennifer S. Armistead ¹ , Annie S. Yang ¹ , Sash Lopaticki ¹ , Norman M. Kneteman ² , Justin A. Boddey ¹ ¹ <i>Walter and Eliza Hall Institute of Medical Research, Melbourne, Australia,</i> ² <i>University of Alberta, Edmonton, AB, Canada</i>
841	Molecular dissection of the Plasmodium sporozoite surface GAPDH for malaria liver invasion	Sung-Jae Cha , Marcelo Jacobs-Lorena <i>Johns Hopkins University, Baltimore, MD, United States</i>
846	Developmental cycle and tissue sequestration of P. vivax transmission stages in the non-human primate model	Elamaran Meibalan ¹ , Nicanor Obaldia III ² , Juliana Sa ³ , Siyuan Ma ¹ , Pedro Mejia ¹ , Roberto Moraes Barros ³ , William Otero ² , Manoj T. Duraisingh ¹ , Danny Milner ¹ , Curtis Huttenhower ¹ , Dyann F.

		Wirth¹, Tom Wellems³, Matthias Marti¹ ¹<i>Harvard T.H. Chan School of Public Health, Boston, MA, United States</i>, ²<i>Instituto Conmemorativo Gorgas de Estudios de la Salud, Panama City, Panama</i>, ³<i>National Institute of Allergy and Infectious Diseases, Bethesda, MD, United States</i>
912	High level of submicroscopic infections of four Plasmodium species during pre-elimination phase in North Sumatera, Indonesia	Inke N. Lubis¹, Hendri Wijaya², Munar Lubis², Khalid Beshir¹, Chairuddin P. Lubis², Colin J. Sutherland¹ ¹<i>London School of Hygiene & Tropical Medicine, London, United Kingdom</i>, ²<i>University of North Sumatera, Medan, Indonesia</i>
926	Association between Carriage of Asymptomatic Infections and Time to Clinical Malaria in Malawi: Data from a Longitudinal Cohort Study	Andrea G. Buchwald¹, Alick Sixpence², Millius Damson², Mabvuto Chimanya², Andy Bauleni², Syze Gama², John D. Sorkin¹, Karl Seydel³, Don Mathanga⁴, Terrie E. Taylor³, Miriam K. Laufer¹ ¹<i>University of Maryland School of Medicine, Baltimore, MD, United States</i>, ²<i>Blantyre Malaria Project, Blantyre, Malawi</i>, ³<i>Michigan State University College of Osteopathic Medicine, East Lansing, MI, United States</i>, ⁴<i>University of Malawi, College of Medicine, Blantyre, Malawi</i>
966	Longitudinal assessment of PfSPZ-specific T cell responses in malaria-naïve adults vaccinated with PfSPZ Vaccine	Andrew S. Ishizuka¹, Kirsten E. Lyke², Sumana Chakravarty³, Andrea A. Berry², Adam DeZure¹, Eric R. James³, Thomas L. Richie³, Adam J. Ruben³, Tao Li³, B Kim Lee Sim³, Julie E. Ledgerwood¹, Stephen L. Hoffman³, Robert A. Seder¹ ¹<i>National Institutes of Health, Bethesda, MD, United States</i>, ²<i>Institute for Global Health, University of Maryland School of Medicine, Baltimore, MD, United States</i>, ³<i>Sanaria Inc., Rockville, MD, United States</i>
1243	Population genomics of Plasmodium falciparum to inform the design and efficacy of whole organism malaria vaccines	Kara A. Moser¹, Amed Ouattara¹, Elliott F. Drabek¹, Sergey Koren², Adam Phillippy², Matt Adams¹, Amadou Niangaly³, Karim Traore³, Abdoulaye K. Kone³, Drissa Coulibaly³, Mahamadou A. Thera³, Ogobara K. Doumbo³, Miriam K. Laufer¹, Matthew B. Laurens¹, Krisada Jongsakul⁴, Chanthap Lon⁵, David Saunders⁴, Kay Thwe Han⁶, Myaing M. Nyunt¹, Robert W. Sauerwein⁷, B. Kim Lee Sim⁸, Toa Li⁸, Mark A. Travassos¹, Shannon Takala Harrison¹, Stephen L. Hoffman⁸, Christopher V. Plowe¹, Joana C. Silva¹ ¹<i>University of Maryland School of Medicine, Baltimore, MD, United States</i>, ²<i>National Human Genome Research Institute, Bethesda, MD, United States</i>

		<i>States, ³University Science, Techniques and Technologies, Bamako, Mali, ⁴Armed Forces Research Institute of Medical Sciences, Bangkok, Thailand, ⁵Armed Forces Research Institute of Medical Sciences, Phnom Penh, Cambodia, ⁶Ministry of Health, Yangon, Myanmar, ⁷Radboud University Medical Center, Nijmegen, Netherlands, ⁸Sanaria Inc., Rockville, MD, United States</i>
1257	Validation of Ultrasensitive Detection of Asymptomatic Malaria Using Dried Blood Spots	Kayvan Zainabadi¹ , Matthew Adams ¹ , Zay Yar Han ² , Hnin Wai Lwin ² , Kay Thwe Han ² , Myaing Nyunt ¹ , Christopher Plowe ¹ <i>¹Institute for Global Health, Division of Malaria Research, University of Maryland School of Medicine, Baltimore, MD, United States, ²Department of Medical Research, Ministry of Health, Yangon, Myanmar</i>
1307	Characterization of the Trypanosomatid Secondary Alternative Oxidase - A Novel Potential Drug Target	Stefanie Kate Menzies , Lindsay B. Tulloch, Andrew L. Fraser, Eoin R. Gould, Elizabeth F. King, Marija K. Zacharova, Gordon J. Florence, Terry K. Smith <i>University of St Andrews, St Andrews, United Kingdom</i>
1317	Gametocyte-specific immunity provides a rationale for novel transmission blocking interventions in <i>P. falciparum</i>	Kathleen Dantzer¹ , Sanna Rijpma ² , Siyuan Ma ¹ , Dingying Tao ³ , Will Stone ² , Karl Seydel ⁴ , Miriam Laufer ⁵ , Huw Davies ⁶ , Phil Felgner ⁶ , Rhoel Dinglasan ³ , Terrie Taylor ⁴ , Curtis Huttenhower ¹ , Teun Bousema ² , Matthias Marti ¹ <i>¹Harvard T.H. Chan School of Public Health, Boston, MA, United States, ²Radboud University Nijmegen Medical Center, Nijmegen, Netherlands, ³Johns Hopkins Bloomberg School of Public Health, Baltimore, MD, United States, ⁴Michigan State University, E. Lansing, MI, United States, ⁵University of Maryland School of Medicine, Baltimore, MD, United States, ⁶University of California Irvine, Irvine, CA, United States</i>
1476	Characterization of antibodies against <i>P. falciparum</i> invasion protein pfMSP10.	Elizabeth M. Villasis , Jorge Bendezu, Katherine Garro, Oscar Nolasco, Katherine Torres, Beronica Infante, Dionicia Gamboa, Joseph Vinetz <i>Universidad Peruana Cayetano Heredia, Lima, Peru</i>
1606	Placental malaria is associated with altered fetal cytokine profiles	Sarah Boudova¹ , Titus Divala ² , Randy Mungwira ² , Patricia Mawindo ² , Tamiwe Tamoka ³ , Marcelo B. Sztejn ⁴ , Kirsten E. Lyke ¹ , Cristiana Cairo ⁵ , Miriam K. Laufer ¹ <i>¹Institute for Global Health, Division of Malaria</i>

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1748	Artemisinin dimers as promising new drug leads for visceral leishmaniasis	Surendra K. Jain¹, Waseem Gul², Mahmoud A. Elsohly², Babu L. Tekwani¹ <i>¹National Center for Natural Products Research, Department of BioMolecular Sciences, School of Pharmacy, University of Mississippi, University, MS, United States, ²ElSohly Laboratories, Inc., Oxford, MS, United States</i>
1750	Proteomic analysis of plasma-derived extracellular vesicles in natural infections of Plasmodium vivax, Trypanosoma cruzi and Fasciola hepatica	Joan Seguí Barber¹, Alicia Galiano², Isabel Diaz³, Emanuella Fajardo⁴, Antonio Marcilla⁵, Igor C. Almeida⁴, Antonio Osuna³, Hernando A. del Portillo⁶ <i>¹Barcelona Institute for Global Health (ISGlobal), Barcelona, Spain, ²Area de Parasitologia, Departament de Biologia Cel·lular i Parasitologia, Universitat de València, Valencia, Spain, ³Institute of Biotechnology, Biochemistry and Molecular Parasitology, University of Granada, Granada, Spain, ⁴Border Biomedical Research Center, Department of Biological Sciences, University of Texas, El Paso, TX, United States, ⁵Area de Parasitologia, Departament de Biologia Cel·lular i Parasitologia, Universitat de València, Joint Research Unit on Endocrinology, Nutrition and Clinical Dietetics, Universitat de València-Health Research Institute La Fe, Valencia, Spain, ⁶ICREA at ISGlobal Institute for Global Health, Hospital Clínic, Universitat de Barcelona, and Institut d'Investigació Germans Trias i Pujol (IGTP), Badalona, Spain</i>
1844	Whole genome sequencing used to distinguish Plasmodium vivax relapse from reinfection and primaquine resistance in Peru	Annie Cowell¹, Hugo Valdivia², Sesh Sundararaman³, Elizabeth Loy³, Andres G. Lescano⁴, Christian Baldeviano⁵, Salomon Durand⁵, Vince Gerbas⁵, Beatrice Hahn³, Elizabeth Winzeler¹ <i>¹UC San Diego, La Jolla, CA, United States, ²Universidade Federal de Minas Gerais, Belo Horizonte, Brazil, ³University of Pennsylvania, Philadelphia, PA, United States, ⁴Universidad</i>

		<i>Peruana Cayetano Heredia, Lima, Peru, ⁵U.S. Naval Medical Research Unit Six, Lima, Peru</i>
1904	HLA DR expressing Low Density Neutrophil subsets expand during Human Visceral Leishmaniasis and can contribute to T cell proliferation.	Smriti Sharma ¹ , Richard Davis ² , Susanne Nylen ³ , David L. Sacks ⁴ , Shyam Sundar ¹ , Mary E. Wilson ² <i>¹Institute of Medical Sciences, Banaras Hindu University, Varanasi, India, ²University of Iowa, Iowa City, IA, United States, ³Karolinska Institutet, Stockholm, Sweden, ⁴NIH, Bethesda, MD, United States</i>
1907	Involvement of Nucleotide-binding domain leucine-rich repeat protein 12 (Nlrp12) in visceral leishmaniasis (VL)	Diogo Valadares , Gwendolyn Clay, Richard E. Davis, Bayan Sudan, Yani Chen, Breanna Scorza, Fayyaz Sutterwala, Mary E. Wilson <i>University of Iowa, Iowa City, IA, United States</i>