



5th PAN-AMERICAN DENGUE RESEARCH NETWORK MEETING PANAMA

Conference Program April 21 - 23, 2016

Thursday April 21		Friday April 22		Saturday April 23	
8:00-8:15am Welcome talks	Nestor Sosa, Carlos Sariol, Eva Harris, Sandra López	8:30-10:00 am Virology		8:30-10:10 am Immunology	
8:15am-10:00 am Epidemiology/Phylogenetics					
Scott Weaver - 20min	Chikungunya Virus in the Americas: Evolution, Epidemiology, and Vector-Virus Interactions	Felix Rey - 20min	HOW TO ELICIT CROSS-REACTIVE ANTIBODIES NEUTRALIZING DENGUE VIRUS: A STRUCTURAL VIEW	Michael Diamond - 20min	Flavivirus disease severity is exacerbated by oral antibiotic treatment
Maurício Nogueira - 20min	Dengue phylogeny in Latin America and the epidemiological fitness of Brazilian lineages of DENV-1	Andrea Gamarnik - 20min	Dengue Virus Genome Encapsidation and Uncoating	Ana Sesma - 20min	INDUCTION AND INHIBITION OF INNATE IMMUNE RESPONSES BY DENGUE VIRUS
Isadora Cristina de Siquiera - 20min	Outbreak of Zika virus infection, Guillain-Barré syndrome and Microcephaly in Salvador, Bahia-Brazil	Rosa María del Angel - 20min	Host cell factors regulation and relocation during dengue virus infection	Eva Heras - 20min	Neutralizing antibody titers against dengue virus correlate with protection from symptomatic infection
Angel Balmaseda-13min	Characterization of Chikungunya Virus Infections in Managua, Nicaragua	Jolanda Smit-13min	Early events in dengue and chikungunya virus infection	Eugenio Hottz 13min	Proteome-identified patterns of inflammatory activation in platelets from dengue patients
Nikita Sahdeo-13min	Phylogenetic Analysis of Caribbean Chikungunya Virus Complete Coding Sequences	Victoria Pando-Robles-13min	Protein dynamics of THP1 cells after dengue infection	Alessandro Sette 13min	Dominant DENV-specific CD8 T-cells exhibit a non-exhausted highly differentiated PD1-phenotype
Cynthia Braga-13min	Dengue Birth Cohort in Recife, Northeast Brazil: Incidence and Characteristics			Ana Perez 13min	Blood cell subpopulations in dengue infection: association with warning signs
10 am- 10:20 am Break		10 - 10:20 am Break		10:10 - 10:25 am Break	
10:20am-11:50am Modeling/Public Health/Disease Burden		10:20-11:40 am Pathogenesis		10:25 am -12:26 pm Immunology/Vaccines	
Ben Althouse - 20min	State of the art in mathematical modeling of dengue	Shee-Mei Lok - 20min	CryoEM structure shows antibody neutralize dengue virus serotype 2 by locking E protein dimers	Leah Katzeinick - 20min	FINDINGS OF THE DENGUE ANTIGENIC CARTOGRAPHY CONSORTIUM
Eduardo Undurraga- 20min	THE GLOBAL ECONOMIC BURDEN OF DENGUE: A SYSTEMATIC ANALYSIS	Mark T Heise - 20min	Chikungunya Virus Pathogenesis in the Collaborative Cross: Development of Improved Models and Identification of Host Pathways Associated with Severe CHIKV Disease	Ralph Baric - 20min	New Reagents for Tracking Polyclonal Epitope-Specific Responses during DENV Infection and Vaccination
José Luis San Martín 20min	Dengue in the Americas: Current situation and new challenges	Parichat Duangkhae-13min	Inflammatory response of keratinocytes facilitates DENV infection in human skin	Scott Weaver - 20min	Vaccine Development for Chikungunya: Scientific Progress, Commercial and Regulatory Challenges
Rosmarl Rodriguez-Roche -13min	Dengue Virulence and its Association with the Epidemiological Landscape	Daniele Henriques-13min	Sequential experimental infection of dengue virus in marmosets: immune response and histopathological changes in the liver	Patricia Repik - 15min	Chikungunya and Zika: NIAID-supported extramural vaccine efforts
Jaime A. Cardona Ospina - 13min	Estimating the Burden of Disease and the Economic Cost Attributable to Chikungunya, Colombia, 2014	Erick Perez-Guzman-13min	DENV-5 efficiently infects human platelet precursors and non-human primate platelets	Jeffrey Currier 20min	POTENT CELL-MEDIATED IMMUNITY GENERATED BY A LIVE-ATTENUATED DENGUE VACCINE
11:50 am-1:30 pm Lunch & Special Lunch Experts/Young Investigators		11:40 - 11:50 am Eva Harris- Scientific Committee Announcement		Shannan Rossi 13min	CHIKV/IRESv1 Vaccine Protects Caribbean CHIKV in Animal Models
1:30pm-3:00pm Biology/Vector-virus Interactions		11:50-1:20 pm Lunch		Robert Beaty 13min	Identification of protective antibody epitopes in a dengue NS1 vaccine
Nikolaos Vasiliakis - 20min	Ecology of Sylvatic cycles of Arboviruses of Human Medical Importance	1:20-2:35pm Pathogenesis/Antivirals		12:26-1:45 pm Lunch	
George Dimopoulos - 20min	Engineered <i>Aedes aegypti</i> JAK/STAT pathway-mediated immunity to dengue virus	Michael Callaghan-20min	Dengue & Zika Therapeutic Trials: Challenges, Solutions and New Clinical Candidates	1:45-3:25 pm Vaccines (developers)	
Jason Rasgon - 20min	Variation in Wolbachia-associated pathogen suppression phenotypes in mosquitoes	Dustin Glasner-13min	<i>Aedes aegypti</i> salivary gland extract-induced endothelial hyperpermeability in dermal microvasculature	Derek Wallace 20min	Takeda's dengue vaccine candidate in children: one or two doses?
Luis Antonio Alonso-Palomares-13min	NS1 from DENV modulates the immune response in mosquito cells	Beatriz Sierra-13min	Lipid/cholesterol metabolism is involved in viral replication and immune response to provide protection for African-ancestry against dengue hemorrhagic fever	Bruno Guy 20min	Recent scientific and clinical advances in Sanofi Pasteur's Dengue Vaccine Program
Raul Andino- 13min	Endogenous viral elements produce trans-generational antiviral piRNAs in mosquitoes	Judith Frydman -13min	Defining Hsp70 Subnetworks in Dengue Infection Reveals Druggable Flavivirus Vulnerability	Alexander Schmidt 20min	Status of the GSK / FIOCRUZ / U.S. Army Dengue Purified Inactivated Vaccine Candidate
3 pm - 3:15 pm Break		Rebecca Broecker -13min	SRC FAMILY KINASE INHIBITORS BLOCK ALPHAVIRUS STRUCTURAL PROTEIN TRANSLATION	Govindarajan Dhanakaseran 20min	Safety and Immunogenicity of a Tetravalent Recombinant Subunit Vaccine for Dengue: Results of a Phase I Clinical Trial
3:15pm-4:21pm Ecology/Vector control		2:35-3:55 pm Clinical manifestations/Comorbidities		Ricardo Palacios 20min	Update on clinical development of Butantan-DV
Roberto Barrera - 20min	Current, non-genetic methods of dengue vector control	Federico Narvaez- 20min	A hospital-based study of dengue and chikungunya in Nicaragua	3:25 - 3:40 pm Break	
Jorge Osorio- 20min	The wMel strain of Wolbachia Reduces Transmission of Zika virus in <i>Aedes aegypti</i>	Mark Lecuit - 20min	Chikungunya virus infection: from bedside to bench	3:40-4:46 pm Diagnostic	
Matthew Miller-13min	Geographic expansion of the invasive mosquito <i>Aedes albopictus</i> across Panama — Implications for control of dengue and Chikungunya viruses	Wilmer Villamil-Gomez-13min	Congenital Chikungunya virus infection in Sincalejo, Colombia: a case series	Jorge Muñoz 20min	The Laboratory Diagnosis of co-Endemic Dengue, Chikungunya and Zika
Rene Gato Armas-13min	Control of <i>Aedes aegypti</i> by Sterile Insect Technique	Jaime Gonzalez-Cardona -13min	Hepatic and pulmonary immunopathological features in fatal severe dengue cases	Ernesto Marques 20min	Diagnostics markers of dengue, chikungunya and Zika
4:21-6:00pm Round Table Vector Control: Comparison of new Technologies with traditional and community-based approach		Nathan Gundacker -13min	Punta Toro Virus Mimics the Clinical Symptomatology of Dengue Virus	Maria Emilia Smith-13min	Low Cost Production of Dengue virus E-domain for an immunoassay development
Moderator/Coordinator: José Loaiza		3:55 - 4:15 Break		Irene Bosch- 13min	PAPR: A Rapid Paper Fluidic Approach to Identify Dengue Viruses with Serotype Specificity
Roberto Barrera - 15min	Use of mosquito traps to prevent chikungunya outbreaks	4:15-5:45 pm Round Table Severe Clinical manifestations of dengue, chikungunya and Zika		4:46-6:10 pm Round Table Dengue Vaccine Trials and the Implication for Latin America	
Luciano Moreira 15min	Wolbachia as an Arbovirus Control Strategy in Brazil	Moderator/Coordinator: Ana Belen Arauz		Moderator/Coordinator: Aravinda de Silva	
Simon Warner 15min	Oxitec mosquito – a novel mode of action using genetics to precisely control pest species with no off-target effects on beneficial insects and pollinators	Jaime Torres 15min	Severe and fatal chikungunya fever in the Americas	Scott Halstead - 10min	Design of Viral Vaccine Efficacy Trial to Detect ADE Responses
Joselina Coloma 15min	Evidence, Technology and Community Mobilization: Taking Back Dengue Control	Doris Salgado 15min	Clinical manifestations of severe dengue	Joachim Hombach - 15min	Global vaccine recommendations and considerations for dengue vaccine decision-making
Q&A - 30 min		Gamaliel Gutierrez-15min	PAHO/WHO response to dengue patients' care	Gabriel Carrasquilla 15min	Experiences and results from large dengue vaccine trial
6:00pm-7:30pm Poster session 1.		Eric Martinez - 15min	UTILITIES AND POTENTIAL LIMITATIONS OF THE 2009 WHO CLINICAL CLASSIFICATION OF DENGUE	Patricia Repik - 15min	NIAID resources to support dengue vaccine research
Epidemiology/Phylogenetics, Modeling/Public Health/Burden, Vector Biology, Vector Control, Virology		Q&A - 30 min		Q&A - 30 min	
7:30pm-9:00pm Zika Session		6:00 pm-7:30 pm Poster session 2.			
Richard Kuhn - 10min	The Cryo-EM structure of Zika Virus	Pathogenesis, Antivirals, Clinical manifestations, Immunology, Vaccines, Diagnostics			
Isadora Cristina de Siquiera 15min	Clinical presentation of Zika virus infection in Salvador, Bahia- Brazil: Guillain-Barré syndrome, other neurological complications and Microcephaly				
Michael Diamond 15min	A Mouse Model of Zika Virus Pathogenesis				
Aravinda da Silva 15min	Zika Diagnostics challenges				
Jose Trevejo 15min	Review of Antibody-Based Approaches to Prophylaxis and Treatment of Zika Virus				
Q&A - 20 min					