

# PANDENGUE 2023

7th Pan American Dengue Research Network Meeting

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November 13 - 16, 2023

Lima, Peru



**Scientific Program**

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7th Pan American Dengue Research Network Meeting

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Time	Monday Nov 13, 2023	Tuesday Nov 14, 2023	Wednesday Nov 15, 2023	Thursday Nov 16, 2023
8:30 AM		<p>8:30-10:00 am - Early Morning Session (90 min)</p> <p><b><u>Epidemiology / Phylogenetics</u></b></p> <p><b>Henrik Salje (U of Cambridge, UK)</b> "Insights From Mathematical Modelling In Understanding The Potential Of Wolbachia To Control Arboviruses"</p> <p><b>Mauricio Nogueira (FAMERP, Brazil)</b> "Butantan Dengue Vaccine Phase 3 Results"</p> <p><b>Jaqueline Cruz (Fiocruz-Bahia, Brazil)</b> "Chikungunya Transmission During The COVID-19 Pandemic: A Cohort Study In An Urban Informal Settlement"</p> <p><b>Jose Victor Zambrana (Sustainable Sciences Inst., Nicaragua)</b> "Prior Zika Or Dengue Virus Infection Increases Risk Of Subsequent Symptomatic Infection By Dengue Virus Serotypes 2, 3, And 4 But Not Serotype 1"</p> <p><b>Jorge Osorio (U of Winsconsin-Madison, US)</b> "Oropouche Virus As An Emerging Cause Of Acute Febrile Illness In Colombia"</p>	<p>8:30-10:00 am - Early Morning Session (90 min)</p> <p><b><u>Virology</u></b></p> <p><b>Sonja Best (NIAID/NIH, US)</b> "What Makes An Effective Live-Attenuated Vaccine? New Insights Into Molecular Mechanisms Driving The Innate Cellular Response To Yellow Fever Virus 17D (YFV-17D)."</p> <p><b>Claudia Filomatori (U San Martin, Argentina)</b> "Molecular Studies On The 3UTR Of The Chikungunya Virus Genome"</p> <p><b>Diego Ojeda (Leloir-CONICET, Argentina)</b> "Identification Of An Essential RNA Element Located Just Downstream Of The Stop Codon In The Dengue Virus Genome"</p> <p><b>Gonzalo Moratorio (Inst. Pasteur, Uruguay)</b> "Cornering Arboviruses To Their Arthropod Vectors"</p> <p><b>Whitney Weber (Oregon Health &amp; Science U, US)</b> "Mayaro Virus Pathogenesis And Immunity In Rhesus Macaques"</p>	<p>8:30-10:00 am - Early Morning Session (90 min)</p> <p><b><u>Immunology</u></b></p> <p><b>Sujan Shresta (La Jolla Inst. for Immunology, US)</b> "Molecular Mechanisms Underlying Flavivirus-Dendritic Cell Interactions"</p> <p><b>Beatriz Sierra (Inst. de Med. Trop. Pedro Kouri, Cuba)</b> "Multi-tissue Transcriptomic Study In Severe Dengue Disease: In Silico Analysis Of Potential Drugs For Its Management"</p> <p><b>Maria Gonzalez Lopez Ledesma (Leloir-CONICET, Argentina)</b> "Dengue Virus NS5 Modulates Pro-Inflammatory Cytokine Production In A Serotype-Specific Manner"</p> <p><b>Jaime Cardona-Ospina (U of California-Berkeley, US/Colombia)</b> "Antibody Correlates Of Severe Disease In Secondary Dengue Virus Infection After A Primary Zika Virus Infection: A possible Role for IgA"</p> <p><b>Crisanta Serrano-Collazo (U of Puerto Rico, Puerto Rico)</b> "Depletion Of CD8+T Cells Reveals CD4+ T Cell Contribution In Controlling Zika Viremia In Dengue-Immune Macaques"</p>
10:00 AM		10:00-10:30 am - Coffee Break (30 min)	10:00-10:30 am - Coffee Break (30 min)	10:00-10:30 am - Coffee Break (30 min)
10:30 AM		<p>10:30-12:00 am - Late Morning Session (90 min)</p> <p><b><u>Modeling / Public Health / Burden of Disease</u></b></p> <p><b>Derek Cummings (U of Florida, US)</b> "Immune Landscapes Of Dengue Virus"</p> <p><b>Diana Rojas (PAHO)</b> "Global Arbovirus Initiative: Preparing For The Next Pandemic By Tackling Mosquito-Borne Viruses With Epidemic And Pandemic Potential"</p> <p><b>Manar Alkuzweny (U Notre Dame, US)</b> "Projecting The Public Health Impact Of A Novel Dengue Vaccine Using Model-Derived Efficacy Estimates"</p> <p><b>Verity Hill (Yale U, US)</b> "Developing A Dengue Virus Lineage System To Improve Genomic Surveillance"</p> <p><b>Cintia Fabbrì (ANLIS, Argentina)</b> "Genomic Surveillance Of CHIKV Circulating In Argentina, 2023"</p>	<p>10:30-12:00 am - Late Morning Session (90 min)</p> <p><b><u>Virology / Pathogenesis</u></b></p> <p><b>Jan Carette (Stanford U, US)</b> "Genetic Screens Expose ER Protein Biogenesis As Achilles Heel For Dengue Virus Replication"</p> <p><b>Juan Ludert (CINVESTAV, Mexico)</b> "Searching For New Functions And Protein-Interactions Of The Dengue Virus NS1 Protein"</p> <p><b>Horacio Pallarés (Leloir-CONICET, Argentina)</b> "Accumulation of Zika Virus Noncoding Subgenomic Flavivirus RNAs Downregulates The Translation Of Antiviral Genes In Human Host"</p> <p><b>Michelle Marti (U of Pittsburgh, US)</b> "Genetic Ancestry-Associated Differences In Dengue Virus Infection In Human Skin"</p> <p><b>Raul Andino (U of California-San Francisco, US)</b> "Viral Protein Synthesis As A Potential Anti-Viral Target"</p>	<p>10:30-12:00 am - Late Morning Session (90 min)</p> <p><b><u>Immunology / Vaccines</u></b></p> <p><b>David Martinez (Yale U, US)</b> "Within-Serotype Genetic Variation Of Dengue Virus 2 Modulates The Neutralization Activity Of Human Antibodies"</p> <p><b>Anna Durbin (Johns Hopkins U, US)</b> "What We Have Learned About Protective Immunity From Dengue Controlled Human Infection And Live Attenuated Vaccine Studies"</p> <p><b>Felipe Lorenzato (Takeda, Mexico)</b> "Efficacy and Safety of Takeda's Tetravalent Dengue Vaccine Candidate (TAK-003) After 4.5 Years of Follow-Up"</p> <p><b>Vivian Costa (U Federal de Minas Gerais, Brazil)</b> "Tumor Necrosis Factor (TNF) Contributes To Joint Inflammation, Hypernociception And Disease Severity in Chikungunya Virus Infection: Implications for Therapeutic Interventions"</p> <p><b>Michael Crawford (OHSU, US)</b> "Development Of A Powassan Virus Like Particle Vaccine Adjuvanted With Novel Toll-like Receptor Agonists"</p>
12:00 PM	<p><b>Registration Opening</b></p> 	12:00-1:30 pm - Lunch (90 min)	12:00-1:30 pm - Lunch (90 min)	12:00-1:30 pm - Lunch (90 min)

Time	Monday Nov 13, 2023	Tuesday Nov 14, 2023	Wednesday Nov 15, 2023	Thursday Nov 16, 2023
1:30 PM	1:30-3:00 pm - early afternoon session (90 min)	1:30-3:00 pm - early afternoon session (90 min)	1:30-3:00 pm - early afternoon session (90 min)	1:30-3:00 pm - early afternoon session (90 min)
	<b><u>Vector Biology / Vector-Virus Interactions</u></b>	<b><u>Pathogenesis / Antiviral</u></b>	<b><u>Diagnostics /Severity Markers /Prognostics</u></b>	
	<b>Joao Marques (U Federal de Minas Gerais, Brazil)</b> "The Mosquito Virome And The Implications For Vector Competence"	<b>Felix Rey (Inst. Pasteur, France)</b> "Structural Studies Of Dengue/Zika Virus Antibody/Antigen Complexes"	<b>Prem Lakshmanane (U of North Carolina-Chapel Hill, US)</b> "Multiplex Sample-Sparing Antibody Assay Platform For Arbovirus Surveillance And Diagnosis"	
	<b>Louis Lambrechts (Inst. Pasteur, France)</b> "Mosquito-Virus Interactions And Zika Virus Emergence"	<b>Rafael Marques (CNPEM, Brazil)</b> "Multidisciplinary Research On Neglected Arboviruses At The Brazilian Synchrotron Source"	<b>Freddy Medina (CDC, Puerto Rico)</b> "Evaluation of Commercial Anti-Dengue Virus IgG Test Performance To Facilitate Dengue Immunization"	
	<b>Edgar Quezada (CINVESTAV, Mexico)</b> "Modifications Caused By The NS1 Protein Of The Dengue Virus In The Intestinal Epithelium Of The Aedes Aegypti Mosquito Favor Virus Dissemination."	<b>Félix Delgado (U El Bosque, Colombia)</b> "Induction Of A Pro-Inflammatory Profile In Human Polarized Macrophages Following Chikungunya Virus Infection"	<b>Samille Pereira (U Federal Minas Gerais, Brazil)</b> "Development Of Chimeric Zikavirus Proteins For Serological Diagnosis Of Low Cross-Reactivity"	
<b>Grecia Hernandez (CISEI, Mexico)</b> "H3 Histone Methylations Patterns In The Midgut Of Aedes Aegypti Mosquitoes Infected With Dengue Virus Serotype-2"	<b>Hunter Ries (U of Wisconsin-Madison)</b> "Spondweni Virus Infection In Pregnant Rhesus Macaques Causes Prolonged Viremia And No Apparent Fetal Harm"	<b>Paul Soma (Colorado State U, US)</b> "Perturbed Serum Metabolome In Dengue Virus Infection And Disease"		
<b>Omar Melo (U Peruana Cayetano Heredia, Peru)</b> "16S rRNA Metagenomic Characterization Of Individual Midgut Microbiota Of Aedes Aegypti Larvae From Hatchery And Two Localities Of Tumbes, Peru"	<b>Bianca Almeida (U de São Paulo, Brazil)</b> "Monoclonal Antibody Against Zika Virus E Protein EDI/II Domain Confers Protection In Immunocompromised Mice"	<b>Irene Bosch (Massachusetts Inst. of Technology, US)</b> "Lateral Flow Tests From Qualitative To Quantitative Approach"		
	3:00-3:30 pm - Coffee Break (30 min)	3:00-3:30 pm - Coffee Break (30 min)	3:00-3:30 pm - Coffee Break (30 min)	
3:30 PM	3:30-5:00 pm - Late Afternoon Session (90 min)	3:30-5:00 pm - Late Afternoon Session (90 min)	3:30-5:00 pm - Late Afternoon Session (90 min)	
	<b><u>Ecology / Vector Control</u></b>	<b><u>Clinical</u></b>	<b><u>Human Behavior &amp; Community Engagement</u></b>	
	<b>Gonzalo Vasquez-Prokopec (Emory U, US/Argentina)</b> "Harnessing Heterogeneity To Guide Innovative Aedes Aegypti Control Interventions In Urban Areas"	<b>Federico E. Narvaez (Sustainable Sciences Inst., Nicaragua)</b> "Dengue Severity By Serotype In 19 Years Of Pediatric Studies In Nicaragua"	<b>Harold Suazo (Sustainable Sciences Inst., Nicaragua)</b> "Participatory Research In Nicaragua: Data And Community Mobilization In The Control Of Aedes Aegypti"	
	<b>Gabriel Sylvestre Ribeiro (World Mosquito Program, Brasil)</b> "Wolbachia Method: Results And Perspectives"	<b>Karin Nielsen-Saines (U of California-Los Angeles, US)</b> "Development Of Maternal Neutralizing Antibodies During Pregnancy Post Zika Virus Infection Is Associated With Lower Risk Of Microcephaly And Structural Brain Abnormalities In Exposed Infants"	<b>Veerle Vanlerberghe (Inst. Trop. Med, Belgium)</b> "Characterization Of Human Mobility To Improve Dengue Prevention Strategies"	
	<b>Marisa Lozano (NAMRU-6, Peru)</b> "Rapid Detection Of Dengue Virus Natural Infection In Aedes Aegypti From Peru By Combined, Portable Real-Time Quantitative Polymerase Chain Reaction And Next Generation Sequencing"	<b>Flora Gandolfi (FAMERP, Brasil)</b> "Clinical Characterization And Severity Of Patients Diagnosed With Dengue In Different Age Groups During The 2019 Dengue Epidemic In Brazil"	<b>Santiago Morales-Mesa (U CES, Colombia)</b> "Estrategias Educativas Y Comunicativas Para El Control Del Dengue En Dos Poblaciones Con Alta Carga De La Enfermedad: Un Enfoque En Educación En Salud"	
	<b>Judicaël Obame-Nkoghe (U des Sciences et Techniques de Masuku, Gabon)</b> "The Asian Tiger Mosquito Invasion Story In Forest Of Central Africa And Potential Consequences In A One Health Perspective"	<b>Andrea Trujillo-Correa (U de Antioquia, Colombia)</b> "Dengue Virus Serologic Prevalence And Prospective Cohort In Adult Population From Metropolitan Area Of Medellín, Colombia 2018-2022"	<b>Hilda Rangel (Inst. Nacional de Salud, Mexico)</b> "Effectiveness Of The Municipal Strategy For Comprehensive Dengue Control In Xochitepec, Morelos, Mexico"	
	<b>Katie Tiley (LSHTM, UK)</b> "Exploring Aedes Aegypti Dynamics Through Wolbachia Replacement And Hybrid Suppress-Then-Replace Strategies For Dengue Control"	<b>Liesbeth Van Wesenbeeck (Janssen, Belgium)</b> "Characteristics Of Dengue Index Cases Enrolled To Prospective Phase 0 Study Of Dengue Infection In Index Cases And Household Contacts In Nha Trang-Vietnam"	<b>Dania Rodriguez (CDC, Puerto Rico)</b> "Dengvaxia: Parental Acceptability In Puerto Rico"	
5:00 PM		5:00-5:30 pm - Coffee Break (30 min)	5:00-5:30 pm - Coffee Break (30 min)	5:00-5:30 pm - Coffee Break (30 min)

Time	Monday Nov 13, 2023	Tuesday Nov 14, 2023	Wednesday Nov 15, 2023	Thursday Nov 16, 2023
5:30 PM		5:30-6:30 pm - Late Afternoon Session (60 min)	5:30-6:30 pm - Late Afternoon Session (60 min)	5:30-6:30 pm - Late Afternoon Session (60 min)
		<p align="center"><b><u>Round Table: Vaccines</u></b></p> <p>Moderator: Albert Ko (Yale U, US)</p> <p>Anna Durbin (Jonhs Hopkins U, US) Derek Wallace (Takeda) Gabriela Paz-Bailey (CDC, PR) Aravinda de Silva (U of North Carolina-CH, US) German Añez (MSD, US)</p>	<p align="center"><b><u>Arbovirus Research in Peru (in Spanish)</u></b></p> <p>Cesar Munayco Escate (CDC-MoH, Peru) "Situación Del Dengue En El Perú"</p> <p>Oscar Escalante (Inst. Nacional de Salud-MoH, Peru) "Diagnóstico Y Vigilancia De Serotipos Y Genotipos De Dengue En El Perú, 1990-2023"</p> <p>Francesca Falconi-Agapito (U Peruana Cayetano Heredia, Peru) "Comparison Of In Silico Predicted Linear B-Cell Epitopes For Dengue Virus With Epitopes Discovered In A Proteome-Wide Peptide Microarray Analysis"</p> <p>Rosa Angelina Rodriguez-Vasquez (PRISMA, Peru) "Knowledge, Attitudes, And Practices Regarding Dengue And Malaria In Remote Communities Of The Peruvian Amazon"</p> <p>Helvio Astete (NAMRU-6, Peru) "Targeted Indoor Residual Spray (TIRS) For Aedes Aegypti With Novel Chemical Compounds"</p>	<p align="center"><b><u>Round Table: Vector Control Efficacy Trials</u></b></p> <p>Moderator: Amy Morrison (U of California-Davis US/Peru)</p> <p>Tom W. Scott (U of California-Davis, US/Peru) Gonzalo Vasquez-Prokopec (Emory U, US) Mauro Teixeira (U Federal de Minas Gerais, Brazil) Gabriela Paz-Bailey (CDC, PR) Josefina Coloma (U of California-Berkeley, US)</p>
6:30 PM	<u>Opening</u>	6:30-8:00 pm - poster session	6:30-8:00 pm - poster session	<u>Closing remarks</u>
7:00 PM	<u>Key Note</u>	<u>Poster Session A</u>	<u>Poster Session B</u>	
	<p>Tom W. Scott (U of California-Davis, US/Peru)</p>	<p>Exhibition Of Posters For The Following Categories:</p> <ul style="list-style-type: none"> <li>• Diagnostics/Prognostics/Clinical</li> <li>• Immunology/Vaccines</li> <li>• Vector Biology/Ecology/Control</li> </ul>	<p>Exhibition Of Posters For The Following Categories:</p> <ul style="list-style-type: none"> <li>• Epidemiology/Genomics/Phylogenetics/Modelling/Burden of Disease</li> <li>• Virology/Pathogenesis/Antivirals</li> <li>• Human Behavior &amp; Community Engagement</li> </ul>	
8:00 PM	<u>Welcoming Reception</u>			



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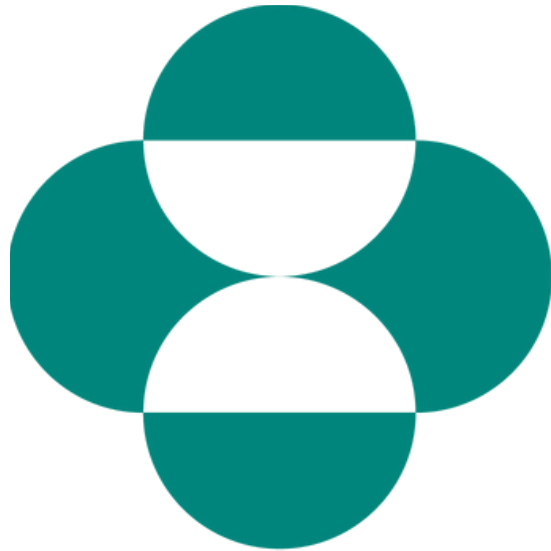
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