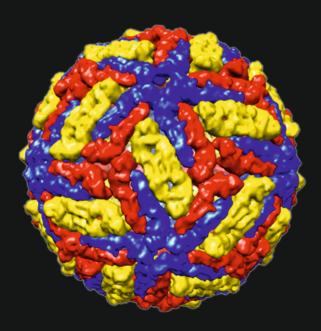
Third Pan American Dengue Research Network Meeting

Cartagena, Colombia September 12-15, 2012



Third Pan American Dengue Research Network Meeting

Hotel Caribe, Cartagena, Colombia September 12-15, 2012

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Standard Diagnostics

Unither Virology

Walter Reed Army Institute of Research

Pecet - Universidad de Antioquia



September 12, 2012

Dear Conference Participants:

On behalf of the Organizing Committee, I am pleased to welcome you to the Third Pan American Dengue Research Network Meeting in Cartagena, Colombia. The objective of this meeting is to promote the exchange of scientific information between academia, government and industry in the area of dengue research. This year, our event has participants from at least 20 countries from the Americas, Europe, Asia, and Australia. The topics addressed will cover a broad spectrum of research areas related to dengue, including virology, immunology, pathogenesis, epidemiology, vaccines/antivirals, and vector biology/control.

Dengue anddengue hemorrhagic fever are considered one of the most serious health problemsin tropical and subtropical regions in the Americas; moreover demographic changes, rapid urbanization and globalization has promoted the appearance of the disease in new geographic regions. We hope that the Third Pan American Dengue Research Network Meeting provides an opportunity for open discussion of the scientific challenges and novel approaches that can lead to strategies in improving diagnosis, treatment, prevention, and control of dengue.

With special appreciation to our sponsors, I again welcome you to this conference and the beautiful city of Cartagena. We hope you find time in the busy schedule to visit the sites and discoverthe rich and vibrant history and culture of Colombia.

Sincerely,

Organizing Committee

Dr. Eva Harris

Professor, Division of Infectious Diseases and Vaccinology, Director, Center for Global Public Health School of Public Health, University of California, Berkeley, CA. USA

Dr. Cristina Cassetti

Program Officer, Acute Viral Diseases Program, Virology Branch, Division of Microbiology and Infectious Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health Bethesda, MD, USA

Dr. Ivan D. Velez

Director, Program for the Study of Control of Tropical Diseases (PECET), Universidad de Antioquia, Medellín, Colombia

Dr. Jorge E. Osorio

Associate Professor, Department of Pathobiological Sciences, University of Wisconsin, Madison, WI, USA Professor, University of Antioquia, Medellín, Colombia

Dr. Carlos A. Sariol

Director, Virology Laboratory, Caribbean Primate Research Center, University of Puerto Rico School of Medicine, San Juan, PR, USA

Dr. Scott Halstead

Senior Advisor, Dengue Vaccine InitiativeInternational Vaccine Institute, Seoul, Korea

Scientific Committees

Virology

Dr. Rosa M. del Angel Dr. Cristina Cassetti Dr. Andrea Gamarnik Dr. Maria G. Guzman Dr. Richard Kuhn

Epidemiology

Dr. Eva Harris Dr. Jorge Muñoz Dr. Rebeca Rico-Hesse Dr. Luis A. Villar

Immunology

Dr. Mike Diamond Dr. Eva Harris Dr. Ernesto Marques Dr. Ana F. Sesma Dr. Aravinda da Silva

Vaccines/Antivirals

Dr. Ricardo Galler Dr. Jorge Osorio Dr. Stephen Thomas Dr. Laura White

Pathogenesis/Animal Models

Dr. Ada Alves Dr. Scott Halstead Dr. Jorge Osorio Dr. Carlos Sariol Dr. Pedro Vasconcelos

Vector Biology/Control

Dr. Roberto Barrera Dr. Idelfonso Fernadez-Salas Dr. Julian Garcia Dr. Amy Morrison Dr. Clara Ocampo

Special recognition to the logistics direction and support of our colleagues:

Margarita R. Ossorio Goldman, M.S.

Regional Program Officer Americas and the Caribbean, Office of Global Research, National Institute of Allergy and Infectious Diseases, National Institutes of Health, Bethesda, MD, USA

Ana Cristina Patiño Taborda

Communications, Program for the Study of Control of Tropical Diseases (PECET), University of Antioquia, Medellín, Colombia

Third Pan-American Dengue Research Network Meeting

Agenda

September 12, 2012 (Wednesday)

4:00 - 6:00 p.m. Conference Registration

Opening Program Salon Arcos

5:00 - 5:10 p.m.	Welcome and Opening Dr. Jorge Osorio (Organizing Committee) Associate Professor, Department of Pathobiological Sciences, University of Wisconsin, Madison, WI, USA. Professor, Universidad de Antioquia, Medellín, Colombia
5:10 - 5:20 p.m.	Colombia Ministry of Health <i>Ministerio de Salud de Colombia</i>
5:20 - 5:30 p.m.	Dr. Scott Halstead (DVI) Senior Advisor, Dengue Vaccine InitiativeInternational Vaccine Institute,Seoul, Korea
5:30 - 5:40 p.m.	Dr. Franklin Hernandez (PAHO) Regional Program for Dengue, Pan American Health Organization, San Jose, Costa Rica
5:40 - 5:50 p.m.	Dr. Cristina Cassetti (NIH) Program Officer, Acute Viral Diseases Program, Virology Branch, Division of Microbiology and Infectious Diseases, National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, USA
5:50 - 6:00 p.m.	ProExport - Colombia
6:30 - 10:00 p.m.	Reception- Jardín Punta Icacos Grupo Folklórico: Ekobios

September 13, 2012 (Thursday)

7:00 – 8:00 a.m.	Registration- Pasille	o Cristal
All Day:	Commercial Exhibit.	Salon Fiesta

Morning Session: Virology Salon Arcos

Session Chairs:	Andrea Gamarnik, Fundación Instituto Leloir, Buenos Aires, Argentina Richard Kuhn, Purdue University, West Laffayette, IN, USA
8:00 – 8:30 a.m.	Scientific Session 1 "Alterations in Lipid Metabolism and Distribution is Important in Dengue Virus Replication" <i>Richard Kuhn, Purdue University, West Laffayette, IN, USA</i>
8:30 – 9:00 a.m.	Scientific Session 2 "RNA Binding Proteins Caught in the Love-Hate Relationship between Dengue Virus and Its Host" <i>Mariano Garcia-Blanco, Duke University Medical Center, Durham, NC, USA</i>
9:00 – 9:20 a.m.	Scientific Session 3 "Identification of Elevated Serum Levels of High Mobility Group Box 1 (HMGB1) Protein in Dengue Infected Patients and Its Usefulness as an Auxiliary Diagnostic Marker" Diego Allonso, Universidade Federal do Rio de Janeiro, Brazil
9:20 – 9:40a.m.	Scientific Session 4 "The E Protein DI-DII Hinge Region is an Important Target of Potently Neutralizing Human Antibodies" <i>Ruklanthi de Alwis, University of North Carolina, Chapel Hill, NC, USA</i>
9:40 – 10:00 a.m.	Scientific Session 5 "Increases in Cholesterol Levels at Early Stages in Dengue Virus Infection Correlate with an Increase in LDL Particle Uptake and HMG-CoA Reductase Activity" <i>Ruben Soto, Centro de Investigación y de Estudios Avanzados del Instituto</i> <i>Politécnico Nacional, Mexico City, Mexico</i>
10:00 – 10:20 a.m.	Coffee Break- Pasillo Cristal. Salón Veleros
10:20 – 10:40 a.m.	Scientific Session 6 "Dengue Virus Encapsidation and Its Interplay with the Host Cell" Andrea Gamarnik, Fundación Instituto Leloir, Buenos Aires, Argentina

10:40 – 11:00 a.m.	Scientific Session 7 "Synergistic Interactions between the N53hel and E Proteins Contribute to the Virulence of Dengue Virus Type 1" Claudia Duarte dos Santos, Instituto Carlos Chagas, Curitiba, Brazil
11:00 – 11:20 a.m.	Scientific Session 8 "Requirement of Cholesterol in the Virus Envelope for Dengue Virus Infection" <i>Ana Carro, Universidad de Buenos Aires, Buenos Aires, Argentina</i>
11:20 – 11:40 a.m.	Scientific Session 9 "Immunogenicity of NS4B Dengue 3 Virus Mimotope Identified from the Phage Display Peptide Library" Nevis Amin, Finlay Institute, La Habana, Cuba
11:40 a.m. – 2:00 p.m.	Lunch (Box)- Jardin Punta de Icacos
	Poster Session #1 (Salon Veleros)

Afternoon Session: Immunology & Diagnostics - Salon Arcos

Session Chairs:	Aravinda de Silva, University of North Carolina, Chapel Hill, NC, USA Eva Harris, University of California, Berkeley, CA, USA
2:00 – 2:30 p.m.	Scientific Session 10 "Dissecting Natural Infections and Vaccine-Induced Antibody Responses to Dengue Virus" <i>Aravinda de Silva, University of North Carolina, Chapel Hill, NC, USA</i>
2:30 – 3:00 p.m.	Scientific Session 11 "Studies of Dendritic Cells and the B Cell Response against Dengue Virus in Mice and Human" <i>Eva Harris, University of California, Berkeley, CA, USA</i>
3:00 – 3:20 p.m.	Scientific Session 12 "Dengue Virus Specific T Cell Epitope Mapping in the General Population of an Endemic Area Reveals Antigenic Hot Spots and HLA-specific Differences" <i>Daniela Weiskopf, La Jolla Institute for Allergy & Immunology (LIAI),</i> <i>La Jolla, CA, USA</i>
3:20 – 3:40 p.m.	Scientific Session 13 "Distinct Properties of Pre-Infection Antibodies Correlate with Silent and Clinically-Apparent Dengue Virus Infections " <i>Kizzmekia Corbett, University of North Carolina, Chapel Hill, NC, USA</i>

3:40 – 4:00 p.m.	Coffee break- Pasillo Cristal. Salón Veleros
4:00 – 4:20 p.m.	Scientific Session 14 "Dengue Virus Inhibits Type 1 Interferon Production in Infected Cells by Cleaving Human Sting" <i>Ana Fernandez-Sesma, Mount Sinai School of Medicine, New York, NY, USA</i>
4:20 – 4:40 p.m.	Scientific Session 15 "Profound Virus-Specific Plasmablast Response in Secondary Dengue Virus Infection Correlates with Disease Severity" Tatiana Garcia-Bates, University of Pittsburgh, Pittsburgh, PA, USA
4:40 – 5:00 p.m.	Scientific Session 16 "Structural Basis of Differential Neutralization of DENV-1 Genotypes by an Antibody that Recognizes a Cryptic Epitope" <i>S. Kyle Austin, Washington University, St. Louis, MO, USA</i>
5:00 – 5:20 p.m.	Scientific Session 17 "Analysis of Repeat Dengue Virus Infections in a Pediatric Cohort Study in Nicaragua" Magelda Montoya, University of California, Berkeley, CA, USA
5:20– 5:40 p.m.	Scientific Session 18 "Evaluation of Eleven Commercially Available Dengue Diagnostic Tests: NS1 and IgM Rapid Tests and NS1 ELISAs" <i>Elizabeth Hunsperger, U.S. Centers for Disease Control and</i> <i>Prevention, San Juan, PR, USA</i>
Evening	Free (See Optional Activities)

September 14, 2012 (Friday)

7:00 – 8:00 a.m. Registration

All Day: Commercial Exhibit. Salon Fiesta

Morning Session: Pathogenesis- Salon Arcos

Session Chairs: Scott Halstead, Dengue Vaccine Initiative International Vaccine Institute, Seoul, South Korea Carlos Sariol, University of Puerto Rico, San Juan, PR, USA

8:00 – 8:30 a.m.	Scientific Session 19 "Dengue Pathogenesis: Do We Know the Cause of the Vascular Permeability Syndrome?" Scott Halstead, Dengue Vaccine Initiative International Vaccine Institute, Seoul, South Korea
8:30 – 9:00 a.m.	Scientific Session 20 "Humanized Mice as Models of Dengue Disease in Humans" <i>Rebeca Rico-Hesse, Texas Biomedical Research Institute,</i> <i>San Antonio, TX, USA</i>
9:00 – 9:20 a.m.	Scientific Session 21 "Dengue Induces Platelet Activation, Mitochondrial Dysfunction and Apoptosis through Mechanisms that Invoice DC-SIGN" <i>Eugenio Hottz, Instituto Oswaldo Cruz, Rio de Janeiro, Brazil</i>
9:20 – 9:40 a.m.	Scientific Session 22 " Biomarkers for Prognosis of Severe Dengue" Irene Bosch, Massachusetts Institute of Technology, Cambridge, MA, USA
9:40 – 10:00 a.m.	Scientific Session 23 "Cytokine Response from Macrophages Infected under Dengue Antibody Enhancing Conditions Induces Endothelial Activation and Tight Junction Disruption in Vitro and Increases Vascular Permeability in Vivo " Henry Puerta Guardo, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional, Mexico City, Mexico
10:00 – 10:20 a.m.	Coffee Break- Pasillo Cristal. Salón Veleros
10:20 – 10:40 a.m.	Scientific Session 24 "Non-Human Primates and Dengue: More than Vaccine" Carlos Sariol, University of Puerto Rico, San Juan, PR, USA
10:40 – 11:00 a.m.	Scientific Session 25 "Circulating Mediators of Cell Death in Dengue" Daniel Limonta, Pedro Kourí Tropical Medicine Institute (IPK), Havana, Cuba
11:00 – 11:20 a.m.	Scientific Session 26 "Dengue Virus Infection Modulates Expression of Regulatory Complement Factors in Hepatocytes" <i>Ernesto Marquez, University of Pittsburgh, Pittsburgh, USA</i>

11:20 – 11:40 a.m.	Scientific Session 27 "Protective versus Pathogenic Effects of Dengue Vaccination" Raphael Zellweger,La Jolla Institute for Allergy & Immunology (LIAI), La Jolla, CA, USA
11:45 a.m. – 2:00 p.m.	Buffet Lunch (Jardín Punta de Icacos)

Afternoon Session: Epidemiology – Clinical – Phylogenetics- Salon Arcos

Session Chairs:	Jorge Muñoz-Jordan, U.S. Centers for Disease Control and Prevention, San Juan, PR, USA Franklin Hernandez, Pan American Health Organization, San Jose, Costa Rica
2:00 – 2:30 p.m.	Scientific Session 28 "Epidemiology of Dengue in the Americas: Progress and Challenges" <i>Franklin Hernandez, Pan American Health Organization, San Jose,</i> <i>Costa Rica</i>
2:30 – 3:00 p.m.	Scientific Session 29 "Long Term Endurance of Dengue Virus Serotype 2 and Transcient Emergence of DENV-3 in Puerto Rico: 1986-2010" <i>Jorge Muñoz-Jordan, U.S. Centers for Disease Control and</i> <i>Prevention, San Juan, PR, USA</i>
3:00 – 3:20 p.m.	Scientific Session 30 "Dengue Population Genetics Program" <i>Mark Loeb, McMaster University, Hamilton, Ontario, Canada</i>
3:20 – 3:40 p.m.	Scientific Session 31 "Time between Sequential Dengue Infections: A View from Thailand" <i>Kristen Baur, Armed Forces Research Institute of Medical Sciences</i> (AFRIMS), Bangkok, Thailand
3:40 – 4:00 p.m.	Coffee Break- Pasillo Cristal. Salón Veleros
4:00 – 4:20 p.m.	Scientific Session 32 "Clinical and Epidemiological Aspects of Dengue Infection in a Schoolchildren Cohart from Medellin, Columbia 2010-2012" Berta Nelly Restrepo, Instituto Colombiano de Medicina Tropical- Universidad CES, Sabaneta, Colombia

4:20 – 4:40 p.m.	Scientific Session 33 "Dengue Prevention and Integrated Control Program in Mesoamerica" Hector Gomez Dantes, National Institute of Public Health, Cuerna Vaca, Mexico
4:40 – 5:00 p.m.	Scientific Session 34 "Spatial Dispersion and Transmissibility Estimates of Dengue Fever in a Mid-Size City, Brazil" <i>Marco Horta, National School of Public Health,Rio de Janeiro, Brazil</i>
5:00 – 5:20 p.m.	Scientific Session 35 "Influence of Meteorological Variables and Time Lag on Transmission Dynamics of Dengue Fever" <i>R.B. Oliveira, National School of Public Health,Rio de Janeiro, Brazil</i>
5:20 – 5:40 p.m.	Scientific Session 36 "Human Mobility and Dengue: A New Paradigm for Understanding Virus Transmission" <i>Amy Morrison, University of California, Davis, CA, USA</i>
Evening	Free (See Optional Activities)

September 15, 2012 (Saturday)

7:00 – 8:00 a.m.	Registration	
All Day:	Commercial Exhibit. Salon Fiesta	
Morning Session: Vaccines – Antivirals - Salon Arcos		
Session Chairs:	Jorge Osorio, University of Wisconsin, Madison, WI, USA Laura White, Global Vaccines, Inc., Chapel Hill, NC, USA	
8:00 – 8:20 a.m.	Scientific Session 37 "Scientific Challenges for the Development of a Tetravalent Dengue Vaccine" Bruno Guy, Sanofi Pasteur, Marcy-l'Étoile, France	
8:20 – 8:40 a.m.	Scientific Session 38 "A Single Dose of the NIH Live Attenuated Tetravalent Dengue Vaccine is Safe, Immunogenic and Capable of Neutralizing Subsequent Vaccine Challenge" Steve Whitehead, National Institute of Allergy and Infectious Diseases, NIH, Bethesda, MD, USA	

8:40 – 9:10 a.m.	Scientific Session 39 "Development of DENVax: A Chimeric Live Attenuated Vaccine against Dengue" <i>Jorge Osorio, University of Wisconsin, Madison, WI, USA</i>
9:10 – 9:30 a.m.	Scientific Session 40 "Tetravalent Dengue Purified Inactivated Vaccine (DPIV): Status of the GSK/FIOCRUZ/U.S. Army Dengue Vaccine Candidate" <i>Eduardo Ortega Barria, Glaxo SmithKline Vaccines, Rio de Janeiro, Brazil</i>
9:30 – 9:50 a.m.	Scientific Session 41 " Preclinical Testing of a Recombinant Subunit Vaccine for Dengue" <i>Beth-Ann Coller, Merck and Company, West Point, PA, USA</i>
9:50 – 10:10 a.m.	Scientific Session 42 " Mathematical Models for Controlling Dengue with Vaccines" Ira Longini, University of Florida, Gainesville, FL, USA
10:10 – 10:30 a.m.	Coffee Break- Pasillo Cristal. Salón Veleros
10:30 – 10:50 a.m.	Scientific Session 43 "Alphavirus Vector Based Tetravalent Dengue Vaccine Induces a Rapid and Protective Immune Response in Macaques that Differs Qualitatively from Immunity Induced by Live Virus Infection" Laura White, Global Vaccines, Inc., Chapel Hill, NC, USA
10:50 – 11:10 a.m.	Scientific Session 44 "Construction and Evaluation of YF 17D-based Chimeric Dengue Viruses Using Shuffled prM/E Sequences from the four Dengue Serotypes" Bruno Guy, Sanofi Pasteur, Marcy-I'Étoile, France
11:10 – 11:30 a.m.	Scientific Session 45 "Liposome Mediated Delivery of Iminosugars Enhances Efficacy Against Dengue Virus In Vivo" <i>Joanna Miller, University of Oxford, Oxford, United Kingdom</i>
11:30 – 11:50 a.m.	Scientific Session 46 "A Broad-Spectrum Host-Based Antiviral Drug Platform for Emerging Viral Diseases" <i>Urban Ramstedt, Unither Virology. Silver Spring, MD</i> 20910
11:50 – 2:00 p.m.	Lunch (Box)- Jardin Punta de Icacos
	Poster Session # 2 (Salón Veleros)

Afternoon Session: Vector Biology – Ecology – Control - Salon Arcos

Session Chairs:	Roberto Barrera, U.S. Centers for Disease Control and Prevention, San Juan, PR, USA Amy Morrison, University of California, Davis, CA, USA
2:00 – 2:30 p.m.	Scientific Session 47 "Using Wolbachia Infections to Control Dengue Transmission" Scott O'Neill, Monash University, Melbourne, Victoria, Australia
2:30 – 2:50 p.m.	Scientific Session 48 " Dengue Vector Surveillance Tools: the Good, the Bad and the Ugly " <i>Roberto Barrera, U.S. Centers for Disease Control and Prevention,</i> <i>San Juan, PR, USA</i>
2:50 – 3:10 p.m.	Scientific Session 49 "Differential Expression of Apoptosis-Related Genes in Field- Derived Strains of Aedes aegypti that are Refractory or Susceptible to Dengue-2 Virus" Carl Lowenberger, Simon Fraser University, Vancouver, British Columbia, Canada
3:10 – 3:30 p.m.	Scientific Session 50 "Evaluation of an Attractive Lethal Ovitrap (A LOT) Against Aedes aegypti for Dengue Control in Iquitos, Peru" Dawn Wesson, Tulane University, New Orleans, LA, USA
3:30 – 3:50 p.m.	Scientific Session 51 "Aedes Transgencio (PAT) – Evaluation of Transgenic Aedes aegypti (OX513A) as a Sterile Insect Technique based Control Method in Brazil" Danilo Carvalho, Universidade de São Paulo, São Paulo, Brazil
3:50 – 4:10 p.m.	Coffee Break Pasillo Cristal. Salón Veleros
4:10 – 4:30 p.m.	Scientific Session 52 "Impact of Vector Control Interventions on Dengue Virus Transmission: Successes, Failures and Study Design Challenges from Iquitos, Peru" Amy Morrison, University of California, Davis, CA, USA
4:30 – 4:50 p.m.	Scientific Session 53 "Characterizing Transcriptomic Divergence in Field-Derived <i>Aedes aegypti</i> Populations and its Impact on Vector Competence for Dengue Virus" <i>Shuzhen Sim, Johns Hopkins University, Baltimore, MD, USA</i>

4:50 – 5:10 p.m.	Scientific Session 54 "Death for Survival: Characterizing the Cell Death Machinery in the Yellow Fever Mosquito, Aedes aegypti" <i>Carl Lowenberger, Simon Fraser University, Vancouver, BC Canada</i>
5:10 – 5:30 p.m.	Scientific Session 55 "Evaluation of the Effectiveness of Mass Trapping with BG- Sentinel Traps for Dengue Vector Control" <i>Carolin Degener, Universidade Federal de Minas Gerais,</i> <i>Belo Horizonte, Brazil</i>
5:30 – 5:50 p.m.	Scientific Session 56 "The Role of Spatial Variation in Dengue Risk in Focusing Research and Control Efforts: Results of Columbia's Integrated National Adaptation Pilot to Climate Change (INAP)" Harish Padmanabha, Yale University, New Haven, USA
5:50 – 6:10 p.m.	Scientific Session 57 "Effect of Massive Control of Aedes aegypti in Catch Basins in a Dengue-Endemic Urban Area in Colombia" <i>Clara Ocampo, Centro Internacional de Entrenamiento e Investigaciones Médicas, Santiago de Cali, Colombia</i>
7:00 –10:00 p.m.	Closing Dinner- Jardin Punta Icacos

Poster #	Poster Session 1 September 13, 2012 Virology, Immunology, Pathogenesis, Epidemiology Salon Veleros		
	VIROLOGY		
P-001	Antiviral Activity of Phospholipases A2 Against Dengue Virus. Alzira Batista Cecilio		
P-002	Quantitative Phosphoproteomics of monocyte cell line infected with Dengue Virus. Antonio Ángel		
P-003	Assessment of the ELISA to detect NS1, as a new tool of early diagnostics of Dengue infection in Panama. Brechla Moreno Arévalo		
P-004	The NS1 Protein of Dengue Virus modulates the IL-6 Expression in HepG2 cells. Breno de Mello Silva		
P-005	Dengue Virus-4 Identification by electron microscopy and molecular methods in fatal dengue hemorrhagic fever in Havana. Daniel Limonta		
P-006	Kinetic of Dengue Virus NS1 protein in Dengue confirmed adult patients. Didye Ruiz Amores		
P-007	The dengue virus NS3 protein is located in MRD of HMEC-I infected cells. Julio García Cordero		
P-008	Dengue and influenza virus co-infection increases morbidity and viral load in wild-type mice. Karla González		
P-009	A dengue virus noncoding RNA hijacks stress granule proteins to inhibit interferon action. Katell Bidet		
P-010	Inhibitory effects of curcumin on cells infected with Dengue Virus type 2 in vitro. Leonardo Padilla Sanabria		
P-011	Marmosets (<i>Callithrix penicillata</i>) as experimental model to primary and secondary dengue virus infection. Milene Silveira Ferreira		
P-012	Characterization functional of NS2A and NS2B protein of Dengue virus and its ability to permeabilize membranes. Moisés León Juárez		
P-013	Dengue virus in Brazilian Amazon: circulation dynamics in last five years. Valéria Lima Carvalho		
P-014	Epidemic of Dengue type 2 in Panama, 2011. Evolution and Pathogenesis. Yamilka Yamiselle Díaz López		
P-015	Production of High Titer Dengue Virus Stocks and Purification of Dengue Virus using a Bioreactor System and Tangential Flow Filtration Technique. Bhumi Patel		
	IMMUNOLOGY		
P-016	DNA vaccine based on the NS1 protein and the protective immune response. Ada Alves		
P-017	DENV NS3 Protein Elicits Heterotypic CD8 Memory T Cell Responses To Dominant And Sub-Dominant Epitopes. Diana Campbell		
P-018	Mapping The Immune Response Induced By DNA Vaccines Against Dengue Virus Based On Different Proteins. Edson Oliveira		
P-019	An IgM-ELISA based on recombinantantigens for detection of anti-dengue antibodies in dried blood samples and sera. Eliseu Soares de Oliveira Rocha		

Poster #	Poster Session 1 September 13, 2 Virology, Immunology, Pathogenesis, Epidemiology (continued) Salon Veleros		
	IMMUNOLOGY (continued)		
P-020	Macrophages changes from pro-inflammatory to regulatory during infection with dengue virus 2. Judith González Christen		
P-021	Early Molecular Events in Dendritic Cells after Viral Stimulation: Dengue versus Influenza A Virus. Kerstin Luhn		
P-022	Activation of the innate immune response against DENV in normal non-transformed human fibroblast. Leticia Cedillo Barrón		
P-023	Non hematopoietic cells and their participation on innate immunity against dengue virus. Moisés López González		
	PATHOGENESIS		
P-024	Detection of Hepatitis C Virus Co-infection in Patients with Dengue Diagnosis. Carlos Machain Williams		
P-025	Prevalence and risk factors for persistent symptoms after acute presentation with dengue fever. Eric S. Halsey		
P-026	Severe Dengue biomarkers: Posible use for clinical management. Gina María Rivera Tovar		
P-027	Neurological manifestation of dengue in children in Neiva, Colombia.Gladyz Yaneth Acosta Moya		
P-028	Evaluation of the thrombogenic receptor Tissue Factor on human monocytes infected by Dengue Virus. Janet García Pillado		
P-029	Dengue Virus Non Structural 1 (NS1) protein interacts with human liver proteins. Jonas Nascimiento Conde		
P-030	Gene expression during the human immunological response to Dengue Virus infection. Josefina García Nores		
P-031	Dengue virus neurovirulence model in C57BL/6. Kátia Paulino Souza		
P-032	Co-infection with dengue virus and rickettsiain Peru and Bolivia. Manuel V. Villaran		
P-033	Histopathology and cytokine production in tissue samples from fatal cases in Brazil. Marciano Viana Paes Viana		
P-034	Active replication of dengue virus type 2 in neurons from human central nervous system. Ma. Isabel Salazar		
P-035	Clinical markers of severe Dengue in children. William Andrés Pinto Candelo		
P-036	Differential Expression of Toll-like Receptors in Dendritic Cells of Patients with Dengue during Early and Late Acute Phases of the Disease. Silvio Urcuqui-Inchima		

Poster #	Poster Session 1 September 13, 2012 Virology, Immunology, Pathogenesis, Epidemiology (continued) Salon Veleros EPIDEMIOLOGY EPIDEMIOLOGY	
P-037	Effectiveness evaluation of a Community Participation Strategy for Dengue Control in La Dorada Colombia.	
r -037	Adriana del Pilar Pacheco Coral	
P-038	Finding the index patient at the introduction of DENV - 4 in Sao José Do Rio Preto, SP (Brazil). Adriano Mondini	
P-039	Phylogenetic Analysis of Dengue Virus type 3 populations: Quasispecies, mutant spectra and antigenic variability. Álvaro Fajardo Rossi	
P-040	Introduction, Circulation and Replacement of Different Lineages of Dengue Virus 2, From American/Asian Genotype in Brazil. Betania Paiva Drumond	
P-041	Burden of Disease and Economic impact of Dengue and Severe Dengue in Colombia 2011. Carlos Andrés Castañeda Orjuela	
P-042	Dengue fever outbreak in the Northern Coast of Peru, focusing on each house. Edwin Miranda Choque	
P-043	Co-circulation of Dengue Virus serotypes in Sucre, Colombia. Erwin Camacho Burgos	
P-044	Regional Dengue Networks: Transmission Dynamics and Implications For Control. Héctor Gómez Dantés	
P-045	Spatial Dispersal of Dengue in Two Urban Areas of Southeast Asia: Testing Multiple Mechanistic Models. Henrik Salje	
P-046	An age structured two serotypes mathematical model of the dengue epidemic in Colombia. Hernando Díaz Morales	
P-047	Burden of dengue infection in children and adults of Santa Cruz comuna, Medellin: The Dengue Vaccine Initiative project in Colombia. Jacqueline Lim	
P-048	Estimating the direct costs of the epidemic of dengue, Colombia 2010. Jeadran Nevardo Malagón Rojas	
P-049	Dengue virus behavior in Ecuador. Period of 1988-2011. Jhony Joe Real Cotto	
P-050	Use of Rapid Dengue Diagnostic Tests in the Routine Clinical Setting. Lyda Osorio	
P-051	Serologic survey of dengue infections of a medium-sized city in the southeast of Brazil. Mariana Sobral	
P-052	Population Dynamics Of DENV-1, Genotype V, In Brazil Is Characterized By Co-Circulation And Strain/Lineage Replacement. Maurício Lacerda Nogueira	
P-053	Hyperendemic circulation of Dengue Virus in a medium sized city from Brazil. Maurício Lacerda Nogueira	
P-054	Evaluation of management of pediatric patients with diagnosis of dengue in a children's clinic of medium complexity in accordance with the new guide to the OMS. Melissa Valderrama Ardila	
P-055	Potential Dengue secondary infections associated to <i>Aedes aegypti</i> populations found in home environments of old DF and DHF cases in Monterrey, Mexico. Rocío Ramírez Jiménez	

Poster #	Poster Session 1 September 13, 2012 Virology, Immunology, Pathogenesis, Epidemiology (continued) Salon Veleros
	EPIDEMIOLOGY (continued)
P-056	Knowledge, attitudes and practices about dengue in rural schools in two Colombian municipalities. Sandra Lucía Vargas Cruz
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P-059	Examining the Importance of Human Movement in Dengue Transmission and Control Efforts. Valerie A. Paz - Soldan
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P-109	The presence of native isolates of Bacillus thuringiensis was determined by the analysis of 234 samples collected from different soil of Valledupar – Colombia. Pedro José Fragoso Castilla	
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P-113	Comparison Between BG-Sentinel and BG-Mosquitito Traps for Capturing of Aedes aegypti Mosquito. Tatiana Ferrera Mingote De Ázara	
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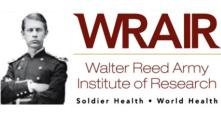














SANOFI PASTEUR 🌍



