Second Pan American Dengue Research Network Meeting

Scientific Program & Abstracts

Cancun, Mexico
November 16-19 2010
Hilton Cancun Golf & Resort Spa
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<th>OPENING REMARKS</th>
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<td>HOST RESPONSE.</td>
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<td>THURSDAY 18</td>
<td>SESSION 2B.</td>
<td>10:15-13:00</td>
<td>LUNCH.</td>
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<td>THIRD GENERATION DENGUE VACCINES</td>
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<td>FRIDAY 19</td>
<td>SESSION 3.</td>
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<td>CONCLUDING REMARKS</td>
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<td>HOST RESPONSE.</td>
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<td>SPECIAL LECTURES</td>
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Second Pan American Dengue Research Network Meeting
Cancun, Mexico 16-19 November, 2010

Tuesday November 16, 2010
Salón Gran Caribe
18:00 – 22:00. Welcome Reception, Opening Ceremony, Social Event/Mixer. Chair: Rosa Maria del Angel Co-Chair: Juan Ernesto Ludert
18:00 – 18:15 Opening Remarks: Rosa Maria del Angel, Scott Halstead
20:00 – 22:00. Social Event/Mixer.

Wednesday November 17, 2010
Salón Gran Caribe
8:30 – 10:00 Session 2A. Dengue Vaccines in Clinical Trials Chair: Maria G. Guzmán Co-Chair: Laura White
8:30 – 9:00 Enrique Rivas (Sanofi Pasteur)
9:00 – 9:30 Krsiten Pierce (NIH)
9:30 – 10:00 Jorge Osorio (Inviragen)
10:00 – 10:15 COFFEE BREAK
10:15 – 1:00 Session 2B. Third Generation Dengue Vaccines
10:15 – 10:30 Alves A.M.B. DNA vaccines based on the dengue envelope protein and their combination with other vaccine strategy.
10:30 – 10:45 Parsons M.M. Alphavirus replicon-based tetravalent dengue vaccine induces balanced and long lasting neutralizing antibody responses in mice.
10:45 – 11:15 Laura White
11:15 – 11:45 María G. Guzmán
11:45 – 12:15 Bruce Inns (GSK)
12:15 – 13:00 Round Table: Discussion of 2nd and 3rd Generation Vaccines
13:00 – 14:00 LUNCH
14:00 – 16:00 Poster Session 1 (viral entry, viral replication, immunology, vaccines, antivirals)
16:00 – 17:30 Session 3. Host Response Chair: Jorge Osorio Co-Chair: Eva Harris
16:00 – 16:30 Special Lecture 3. Michael Diamond. New insights into the molecular basis of neutralization by anti-dengue virus antibodies.
16:30 – 16:45 Alvarez M. Viral serotype and neutralising antibody response correlate with type infection and disease severity in American dengue patients.
16:45 – 17:00 Nascimento E. Comprehensive T-cell epitope mapping of DENV-3 Envelope, NS1, NS3 and NS5 proteins on HLA DR2, DR3, DR4, A2, A24 and B7 transgenic mice.
17:00 – 17:15 De Silva A. Antigen specificity and functional properties of human antibodies against dengue virus
17:15 – 17:30 Bosh I. Proteomic analysis of CD45+ microvesicles of dengue virus infected cells reveals differential protein components and increased inflammatory and growth stimulation

Thursday November 18, 2010
Salón Gran Caribe
8:30 – 10:00. Session 4. Structure/Cell Entry and Diagnostics Chair: Ferdinando Liprandi Co-Chair: Jorge Muñoz-Jordán
8:30 – 9:00 Special Lecture 4: Richard Kuhn. Further studies on the structure of dengue virus antibody complexes.
9:00 – 9:15 Acosta E.G. Intracellular trafficking of dengue virus in vero cells.
9:15 – 9:30 Watterson D. Probing the entry of dengue virus into cells using recombinant constructs of the E glycoprotein domain III.
9:30 – 9:45 Alonzo D. Recombinant DENV2 NS1 protein expressed in E. coli maintains its structural properties and generates polyclonal antibodies useful for dengue diagnosis.
9:45 – 10:00 Bijon Kumar Sil. ASSURE® Dengue IgA Rapid Test: A new generation of dengue diagnostic for the detection of acute infection.

10:00 – 10:15 COFFEE BREAK

10:15 – 11:15 Session 5. Virus-Host Interactions Chair: Andrea Gamarnik, Co-Chair: Leticia Cedillo

10:45 – 11:15 Special Lecture 5B Ana Fernández-Sesma. DENV inhibition of interferon production in human DCs is mediated by an active protease NS2B3.

11:15 – 13:00 Session 6. Clinical Aspects of Dengue/Epidemiology


11:45 – 12:00 Nogueira ML. Molecular Epidemiology of DENV-3 in a Medium Sized City in São Paulo State (Brazil).

12:00 – 12:15 Siqueira Jr. JB. Dengue in Brazil: trends, surveillance and the epidemics of 2008-2010.

12:15 – 13:00 Round Table: Discussion of New WHO Case Definition.

13:00 – 14:00 LUNCH

14:00 – 16:00 Poster Session II (social work, epidemiology, diagnostic, vectors, sylvatic hosts)

16:00 – 17:30 Session 7. Animal Models/Pathogenesis Chair: Ada Alves Co-Chair: Michael Diamond

16:00 – 16:30 Special Lecture 7: Eva Harris. ADE mouse animal model.

16:30 – 16:45 Fagundes C.T. Inflamasome-mediated IL-1beta production is essential for host resistance to dengue virus primary infection.

16:45 – 17:00 Costa V.V. Role of IL-12, IL-18, IFN-gamma and NO in a model of dengue hemorrhagic fever in immunocompetent mice.

17:00 – 17:15 Cisalpino, D. SOCS-2 plays an important regulatory role in a model of experimental dengue disease.

17:15 – 17:30 Perea-Martínez L. Artibeus sp. bat susceptibility to infection with serotype 2 dengue virus.

Friday November 19, 2010
Salón Gran Caribe

8:30 – 10:00 Session 8. Replication and Morphogenesis Chair: Aravinda de Silva Co-Chair: Irene Bosch

8:30 – 9:00 Special Lecture 8: Andrea Gamarnik. Lipid droplets and viral morphogenesis.

9:00 – 9:15 Liprandi F. Changes in the envelope and in the non structural protein 4B proteins of dengue virus strains of the four serotypes after serial passages in vertebrate cells.


9:30 – 9:45 Alcaraz-Estrada S.L. Identification of temperature sensitive mutants by using a dengue virus serotype 4 replicon system.

9:45 – 10:00 Silva E.M. The non-structural 3 (NS3) protein of dengue virus interacts with human liver proteins.

10:00 – 10:15 COFFEE BREAK

10:15 – 12:15 Session 9. Vectors/Ecology Chair: Humberto Lanz Co-Chair: Susie Kliks


11:15 – 11:30 Tanaka A.S. Characterization of thrombin inhibitory mechanism of rAaTI, a Kazal type inhibitor from Aedes aegypti with anticoagulant activity.

11:30 – 11:45 Marques Pessanha J.E. Co-circulation of two dengue virus serotypes in individual and pooled samples of Aedes aegypti and Aedes albopictus.

11:45 – 12:00 Carvalho D.O. Virus-regulated mosquito lethal gene.


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