

Scientific Program

14 October 2008

10.00-18.00 Registration and poster set-up

15 October 2008
GRAND BALLROOM

07.30 Registration and poster set-up

09.30-10.30 Opening Ceremony:

Welcome speech: Provincial Governor, Phuket

Report by: Director General, Department of Disease Control

Opening remark: Samlee Plianbangchang, Regional Director, WHO, South-East Asia Region

Opening speech: Permanent Secretary, Ministry of Public Health, Thailand

10.30-11.00

Break

Keynote Lectures

11.00-11.20 Dengue Hemorrhagic Fever: A scourge of Southeast Asian children

Suchitra Nimmannitya (*Thailand*)

11.20-11.40 Dengue Vaccines: Progress and challenges

Harold Margolis (*PdVf*)

11.40-12.00 Dengue Vaccines are coming: Current status and long-term implications

Scott Halstead (*USA*)

12.00-13.00

Lunch

ROOM 3(Arcadia Hall): Luncheon
Symposium: Sponsored by PAN-BIO

Lunch

Plenary Lecture: An update on dengue

Chairperson: Prasert Thongcharoen (*Thailand*)

13.00-13.20 Epidemiology and current situation of dengue: A global picture

Duane Gubler (*USA*)

13.20-13.40 Insights on the mechanism of viral induced fusion from structural studies of flaviviruses and related class II viral envelope proteins

Felix Rey (*France*)13.40-14.00 Sustainability and cost of community-based *Mesocyclops* programs to control *Aedes aegypti* in Vietnam: update on outstanding progressBrian Kay (*Australia*)

14.00-14.20 Opportunities for innovation in dengue control

Julie Jacobson (*Gates Foundation*)Kathryn Aultman (*Gates Foundation*)

14.20-14.40 Priority needs for dengue research: global view

Axel Kroeger (*WHO, Geneva*)

15.00-15.30

Break

ROOM 1: GRAND BALLROOM B	ROOM 2: GRAND BALLROOM A	ROOM 3: ARCADIA HALL	ROOM 4: LAGOON HALL
<p>Symposium 1: Update on dengue situation from endemic regions Chairperson: Duane Gubler (USA) Co-chairperson: Chusak Prasittisuk (WHO-SEARO)</p> <p>15.30-15.50 Dengue situation and perspective in Latin America Hermann Schatzmayr (Brazil)</p> <p>15.50-16.10 Historical review of the outbreaks of dengue and dengue-like illness (1890-1950) with a special emphasis on fatal cases Goro Kuno (USA)</p> <p>16.10-16.30 Transmission dynamics of dengue in Thailand Derek Cummings (USA)</p> <p>16.30-16.50 Dengue in Singapore: The paradox of disease control Eng Eong Ooi (Singapore)</p> <p>16.50-17.10 Molecular dynamic of dengue virus in Southeast Asia Richard Jarman (AFRIMS)</p>	<p>Symposium 2: Molecular biology of dengue virus Chairperson: Richard Kuhn (USA) Co-chairperson: Nopporn Sittisombut (Thailand)</p> <p>15.30-15.50 The highlight on dengue virus replication Suman Paranjapee (USA)</p> <p>15.50-16.10 Dengue virus-host protein interactions during replication Mah-Lee Ng (Singapore)</p> <p>16.10-16.30 A novel cis-acting RNA element within 3'-untranslated region of the dengue virus type 2 is required for replication Radhakrishnan Padmanabhan (USA)</p> <p>16.30-16.50 Structural views of the DENV-NS3 protease-helicase: Perspective for drug design Julien Lescar (Singapore)</p> <p>16.50-17.10 (0439_R01) Analysis of temperature sensitive mutants of dengue virus serotype 4 using replicon system Sofia Alcaraz-Estrada (Mexico)</p>	<p>Special session: Immune complex regulation of IFN: A critical ADE pathway Chairperson: Ichiro Kurane (Japan) Co-chairperson: Chantapong Wasi (Thailand)</p> <p>15.30-15.50 New paradigms in ADE: Lesson learnt from alphavirus and dengue virus Suresh Mahalingam (Australia)</p> <p>15.50-16.10 An IFN suppressive pathway during DV-ADE infection: From an <i>in vitro</i> experiment to dengue patients Sukathida Ubol (Thailand)</p> <p>16.10-16.30 Regulation of the interferon system by dengue immune complexes: Epidemiological correlates Scott Halstead (USA)</p> <p>16.30-17.10 Open for discussion</p>	<p>Symposium on Asia-Pacific Dengue Partnership (APDP)</p> <p>15.30-17.00 Chairperson: Khoo Seow Poh (Singapore) Co-chairperson: Wichai Satimai (Thailand)</p> <p>Situation of dengue in Indonesia, Representative from Indonesia</p> <p>Situation of dengue in Cambodia, Representative from Cambodia</p> <p>Bi-Regional Asia-Pacific Dengue Strategic Plan (2008-2015) John Ehrenberg (WHO-WPRO)</p> <p>Regional Committee Resolution-SEARO/WPRO Chusak Prasittisuk (WHO-WPRO)</p> <p>Asia-Pacific Dengue Partnership (APDP) Khoo Seow Poh (Singapore)</p> <p>Panel discussions - Way forward to APDP to support Bi-Regional Asia-Pacific Dengue Strategy Khoo Seow Poh (Singapore)</p>



Scientific Program

15 October 2008

- 17.10-18.10** **Poster Presentation and Colloquium** (Arcadia Hall)
Chairperson: Sai Kit Lam (*Malaysia*)
Usa Thisyakorn (*Thailand*)
- Clinical Aspects** **(0066_P01)** **Clinical features of case of imported dengue fever diagnosed at a travel clinic in Japan**
Yasutaka Mizuno (*Japan*)
- Diagnosis** **(0111_P01)** **Development of serotype-specific monoclonal antibodies to dengue virus NS1 proteins**
James Colborn (*USA*)
- Diagnosis** **(0212_P01)** **Generation and characterization of hybridoma clones producing monoclonal antibodies specific to NS1 protein of dengue virus serotype 3**
Tanapan Prommool (*Thailand*)

16 October 2008

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<p>State-of-the-Art Lecture: Chairperson: Felix Rey (<i>France</i>)</p> <p>08.30-09.00 Insights on dengue virus structure during receptor and antibody interaction Richard J. Kuhn (<i>USA</i>)</p> <p>Symposium 3: Dengue diagnosis Chairperson: Sai Kit Lam (<i>Malaysia</i>) Co-chairperson: Ananda Nisalak (<i>Thailand</i>)</p> <p>09.00-09.20 An overview on dengue diagnosis Timothy Endy (<i>USA</i>)</p>	<p>Symposium 6: Mechanism of vascular leakage Chairperson: Alan Rothman (<i>USA</i>) Co-chairperson: Anon Srikiatkachorn (<i>USA</i>)</p> <p>08.30-08.50 Regulators of vascular permeability Peter Baluk (<i>USA</i>)</p> <p>08.50-09.10 Pathology of dengue hemorrhagic fever Khin Saw Aye (<i>Myanmar</i>) Sanya Sukpanichnant (<i>Thailand</i>)</p> <p>09.10-09.30 The role of vascular endothelial growth factor and its receptors in dengue hemorrhagic fever Anon Srikiatkachorn (<i>USA</i>)</p>	<p>Symposium 8: Proteomic and genomic researches on dengue Chairperson: Rebecca Rico-Hesse (<i>USA</i>) Co-chairperson: Martin Hibberd (<i>Genome Institute, Singapore</i>)</p> <p>08.30-08.50 An overview of genomic and proteomic researches in dengue Martin Hibberd (<i>Genome Institute, Singapore</i>)</p> <p>08.50-09.10 Can serum proteomics identify biomarkers that can differentiate between dengue and other febrile illnesses or predict the development of complications? Brian Ward (<i>Canada</i>)</p> <p>09.10-09.30 NIAID genomic and bioinformatics efforts on dengue Elliot Lefkowitz (<i>USA</i>)</p>	<p>Symposium 11: Innovative Dengue vector control Chairperson: Janet Hemingway (<i>UK</i>) Co-chairperson: Pattamaporn Kittayapong (<i>Thailand</i>)</p> <p>08.30-08.50 Novel methods for trapping adult <i>Aedes aegypti</i> and current surveillance techniques Michael Bangs (<i>NAMRU</i>)</p> <p>8.50-09.10 Improvement of insecticide resistance management and new generation of insecticides for dengue vector control Janet Hemingway (<i>UK</i>)</p> <p>09.10-09.30 Insecticide-treated material (ITMs) for dengue control Phillip McCall (<i>UK</i>)</p>

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<p>09.20-09.40 Commercial assays for the diagnosis of acute dengue infection: The Good, the Bad and future opportunities Stuart Blacksell (<i>Wellcome Trust</i>)</p> <p>09.40-10.00 Dengue Antibody Titration by Microneutralization Assay Tatyana Timiryasova (<i>USA</i>)</p>	<p>09.30-09.50 Mechanisms of plasma leakage in other virus infections Hans Schnittler (<i>Germany</i>)</p>	<p>Oral Presentations 4: Genomics and proteomics Chairperson: Martin Hibberd (<i>Genome Institute, Singapore</i>) Co-chairperson: Rebecca Rico-Hesse (<i>USA</i>)</p> <p>09.30-09.45 (0065_R01) <i>Aedes aegypti</i> anti-dengue immune responses George Dimopoulos (<i>USA</i>)</p> <p>09.45-10.00 (0441_R01) Essential sites in the E-protein of dengue virus that can not be modified without lost of virulence Jose-Luis Sagripanti (<i>USA</i>)</p>	<p>09.30-09.50 The use of life-shortening <i>Wolbachia</i> strains to reduce dengue transmission by <i>Aedes aegypti</i> Scott O'Neill (<i>Australia</i>)</p> <p>Oral Presentation: 09.50-10.00 (0460_R01) Genetic control of <i>Aedes aegypti</i> and dengue Ann Kramer (<i>UK</i>)</p> <p>10.00-10.10 (0445_R01) Dengue-2 virus infections of <i>Aedes aegypti</i> are modulated by the mosquito's RNA interference pathway Kenneth Olson (<i>USA</i>)</p>
<p>Oral Presentation 1: Diagnosis and Molecular Virology Chairperson: Radhakrishnan Padmanabhan (<i>USA</i>) Co-chairperson: Ananda Nisalak (<i>Thailand</i>)</p> <p>10.30-10.40 (0584_R01) Improving dengue diagnostics: Report of a working meeting of the Regional dengue prevention boards Dianna Edgill (<i>USA</i>)</p>	<p>Oral Presentation 2: Pathogenesis and Clinical Aspects Chairperson: Tanomsri Srichaikul (<i>Thailand</i>) Co-chairperson: Anon Srikiatkhachorn (<i>USA</i>)</p> <p>10.30-10.40 (0108_R01) Determination of the regions in human FCGR1IA responsible for the antibody dependent enhancement in dengue virus infection Meng Moi (<i>Japan</i>)</p>	<p>Symposium 9: Host and viral determinants of dengue virulence Chairperson: Scott Halstead (<i>USA</i>) Co-chairperson: Prida Malasit (<i>Thailand</i>)</p> <p>10.30-10.50 Overview on immunopathogenesis Alan Rothman (<i>USA</i>)</p>	<p>Oral Presentation 6: Epidemiology Chairperson: Janet Hemingway (<i>UK</i>) Co-chairperson: Pattamaporn Kittayapong (<i>Thailand</i>)</p> <p>10.30-10.40 (0284_R03) Interim results of a longitudinal prospective cohort study of dengue infection among Indonesian adults Bachti Alisjahbana (<i>Indonesia</i>)</p>
10.00-10.30 Break			

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<p>10.40-10.50 (0228_R02) Evaluation of three commercial tests for the acute dengue diagnosis using NS1 antigen detection Philippe Dussart (<i>French Guiana</i>)</p> <p>10.50-11.00 (0205_R01) Development of universal primers for rapid detection of flaviviruses Chang-Kweng Lim (<i>Japan</i>)</p> <p>11.00-11.10 (0195_R01) Performances of rapid dengue diagnostics for the detection of acute dengue infection Bijon Sil (<i>Singapore</i>)</p> <p>11.10-11.20 (0454_R01) Substitutions at putative heparan sulfate binding clusters of den-2 virus inhibit viral internalization but not attachment to mammalian cells Claire Huang (<i>USA</i>)</p> <p>11.20-11.30 (0029_R01) The dengue virus translation-replication complex is located in close association with autophagic membranes Duncan Smith (<i>Thailand</i>)</p> <p>11.30-11.40 (0196_R01) Cell tropism of dengue viruses: Possible virus population switching between patient and mosquito Hitomi Kinoshita (<i>Japan</i>)</p>	<p>10.40-10.50 (0391_R01) Apoptosis and proinflammatory cytokine production in antibody-enhanced dengue virus mast cell infection Robert Anderson (<i>Canada</i>)</p> <p>10.50-11.00 (0228_R01) Study of dengue cases and their household members: A familial cluster analysis (DENFRAME Project) Philippe Dussart (<i>French Guiana</i>)</p> <p>11.00-11.10 (0276_R01) Liver involvement in dengue patients Pra-on Supradish (<i>Thailand</i>)</p> <p>11.10-11.20 (0094_R01) Serial right lateral decubitus chest ultrasonography for detection of pleural effusion in dengue infection: An aid for accurate diagnosis of DHF Sirijitt Vasanawathana (<i>Thailand</i>)</p> <p>11.20-11.30 (0420_R01) The major clinical presentation and correlation of haemorrhagic manifestations with requirement of platelet transfusion Ashutosh Biswas (<i>India</i>)</p>	<p>10.50-11.10 Genetic associations with dengue infections in ethnic Thais Henry Stephens (<i>UK</i>)</p> <p>11.10-11.30 Evolution and virulence of dengue virus Rebecca Rico-Hesse (<i>USA</i>)</p> <p>11.30-11.50 Genetic susceptibility to dengue infection Anavaj Sakuntabhai (<i>Thailand</i>)</p>	<p>10.40-10.50 (0329_R01) Singapore's dengue programme and epidemiology in the face of new challenges Lee-Ching Ng (<i>Singapore</i>)</p> <p>10.50-11.00 (0046_R01) Viral evolution during a severe dengue epidemic in Cuba: Possible role of NS1 protein on viral virulence Rosmari Rodriguez-Roche (<i>Cuba</i>)</p> <p>11.00-11.10 (0075_R02) Macro- and micro-evolution of dengue viruses in southern Vietnam revealed by whole genome sequencing Cameron Simmons (<i>Vietnam</i>)</p> <p>11.10-11.20 (0400_R03) Estimating the global burden of dengue Mark Beatty (<i>Korea</i>)</p> <p>11.20-11.30 (0289_R01) Cross-protective immunity can account for the alternating epidemic pattern of dengue virus serotypes circulating in Bangkok Mike Boots (<i>UK</i>)</p> <p>11.30-11.40 (0270_R01) What is enhanced surveillance?: Description of an enhance dengue surveillance system model-The Patillas enhanced dengue surveillance system (PEDSS), patillas, Puerto Rico David Arguello (<i>Puerto Rico</i>)</p>

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<p>11.40-11.50 (0487_R01) Autophagy induced by dengue virus type 2 and its role in immunopathogenesis Hsiao-Sheng Liu (<i>Taiwan</i>)</p>	<p>11.40-11.50 (0448_R01) Possible role for heparan sulfate in the coagulopathy associated with dengue infection Dinh Trung (<i>Vietnam</i>)</p>		<p>11.40-11.50 (0440_R01) The city of Leon, State of Guanajuato, Mexico: A new area with dengue fever during 2007 Nereida Aguilar (<i>Mexico</i>)</p> <p>11.50-12.00 (0259_R01) Diversity of serotype-specific dengue infection in Thailand, 1999-2006 Pongtorn Chartpituck (<i>Thailand</i>)</p>
12.00-13.00 Lunch			
<p>Symposium 4: Is DHF really a hemorrhagic fever? Chairperson: Scott Halstead (<i>USA</i>) Co-chairperson: Sompon Punyagupta (<i>Thailand</i>)</p> <p>13.00-13.20 Distinctive Features of Dengue Hemorrhagic Fever Suchitra Nimmannitya (<i>Thailand</i>)</p> <p>13.20-13.40 Hematologic manifestations in dengue and DHF Tanomsri Srichaikul (<i>Thailand</i>)</p>	<p>Symposium 7: Dengue Vaccine I Chairperson: Harold Margolis (<i>PDVI</i>) Co-chairperson: Arunee Sabcharoen (<i>Thailand</i>)</p> <p>13.00-13.20 Current attempts to develop a live attenuated dengue vaccine in Thailand Nopporn Sittisombut (<i>Thailand</i>)</p> <p>13.20-13.40 Walter Reed Army Institute of research and Glaxo Smith Kline Biological candidate live tetravalent dengue (TDEN) vaccine Stephen Thomas (<i>AFRIMS</i>)</p> <p>13.40-14.00 A vaccine against dengue based on virus-like particles Martin Bachmann (<i>Switzerland</i>)</p>	<p style="text-align: center;">Luncheon Symposium: Sponsored by BIO-RAD LABORATORIES LTD.</p> <p>Symposium 10: Immune responses against dengue virus Chairperson: Ichiro Kurane (<i>Japan</i>) Co-chairperson: Sai Kit Lam (<i>Malaysia</i>)</p> <p>13.00-13.20 Role of B cells in dengue virus infection Gavin Screaton (<i>UK</i>)</p> <p>13.20-13.40 Role of T cells in dengue virus infection Juthathip Mongkolsapaya (<i>Thailand</i>)</p> <p>13.40-14.00 Innate immunity, IFN, in dengue virus infection Yi-Ling Lin (<i>Taiwan</i>)</p>	<p style="text-align: center;">Lunch</p> <p>State-of-the-Art-Lecture: Chairperson: Chitapa Ketavan (<i>Thailand</i>)</p> <p>13.00-13.30 Transgenic <i>Aedes aegypti</i>: A future approach in dengue prevention and control Anthony James (<i>USA</i>)</p> <p>13.30-15.30 Oral Presentation 7: Vector Biology and Control Chairperson: Eng Eong Ooi (<i>Singapore</i>) Co-chairperson: Theeraphap Charoenviriyaphap (<i>Thailand</i>)</p> <p>13.30-13.40 (0221_R01) Mitochondrial pseudogenes in the nuclear genome of <i>Aedes aegypti</i> Thaung Hlaing (<i>Myanmar</i>)</p>

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<p>Oral Presentation 1s: Clinical Manifestation, Diagnosis and Genomics Chairperson: Scott Halstead (<i>USA</i>) Co-chairperson: Sompon Punyagupta (<i>Thailand</i>)</p> <p>14.00-14.10 (0080_R01) Complicated dengue fever and liver damage, Jeddah, 2006 Naeema Akbar (<i>Saudi Arabia</i>)</p> <p>14.10-14.20 (0242_R01) Prospective evaluation of dengue NS1 antigen detection versus RT-PCR during a dengue outbreak Fatima Najjoulah (<i>Martinique</i>)</p> <p>14.20-14.30 (0297_R01) Identification of dengue virus infected cells in peripheral blood by flow cytometry Michael Baclig (<i>Philippines</i>)</p> <p>14.30-14.40 (0277_R01) An easy-to-use protocol for the determination of NS1 levels using Platelia™ dengue NS1 antigen assay Marc Tabouret (<i>France</i>)</p>	<p>14.00-15.00 Open for discussion</p>	<p>14.00-14.20 Complement and DHF Panisadee Avirutnan (<i>Thailand</i>)</p> <p>14.20-15.00 Open for discussion</p>	<p>13.40-13.50 (0220_R01) Genetic population structure and gene flow in <i>Aedes aegypti</i> in southeast Asia using microsatellites Catherine Walton (<i>UK</i>)</p> <p>13.50-14.00 (0104_R01) Population genetics of <i>Aedes aegypti</i> (Diptera: Culicidae) in Thailand Suprada Sukonthabhirom na Pattalung (<i>Thailand</i>)</p> <p>14.00-14.10 (0450_R01) Sterile insect technique: Confined semi-field evaluation of RIDL <i>Aedes aegypti</i> OX513A strain Seshadri Vasan (<i>UK</i>)</p> <p>14.10-14.20 (0298_R01) Lethal oitraps-Evolution of an innovative system to eradicate dengue fever in Australia Brian Montgomery (<i>Australia</i>)</p> <p>14.20-14.30 (0035_R01) Challenges for control of the dengue vector <i>Aedes aegypti</i>: The Brazilian situation Balmukund Patel (<i>Brazil</i>)</p>

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<p>14.40-14.50 (0152_R01) Small interference RNA profiling of cellular factors required for infectious entry of dengue virus into hepatocytes Jang Hann Justin Chu (<i>Singapore</i>)</p>			<p>14.30-14.40 (0464_R01) Comprehensive study for control of <i>Aedes aegypti</i> in Palu Municipality, Central Sulawesi province, Indonesia Triwibowo Garjito (<i>Indonesia</i>)</p> <p>14.40-14.50 (0208_R01) Spatial-time distribution of DF/DHF incidence against space spraying in an urban area, southern Thailand Supaporn Mekswai (<i>Thailand</i>)</p> <p>14.50-15.00 (0209_R01) Dengue infection's dynamics of vector mosquitoes in the patient's houses, Thailand Yuki Eshita (<i>Japan</i>)</p> <p>15.00-15.10 (0091_R01) A review of the impact of <i>Aedes aegypti</i> reduction interventions on the incidence of dengue fever John Elder (<i>USA</i>)</p> <p>15.10-15.20 (0062_R01) Community involvement in <i>Aedes</i> control and dengue prevention: A cluster randomized trial Patrick Van der Stuyft (<i>Belgium</i>)</p>
	<p>15.00-15.30 Break</p>		
<p>Symposium 5: Dengue: Unusual manifestations Chairperson: Suchitra Nimmannitya (<i>Thailand</i>) Co-chairperson: Lucy Lum (<i>Malaysia</i>)</p>	<p>Oral Presentation 3: Vaccines and Immunology Chairperson: Chantapong Wasi (<i>Thailand</i>) Co-chairperson: Sutee Yoksan (<i>Thailand</i>)</p>	<p>Oral Presentation 5: Pathogenesis/Pathology and EID Chairperson: Srisakul (Susie) Kliks (<i>USA</i>) Co-chairperson: Chitsanu Pancharoen (<i>Thailand</i>)</p>	

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<p>15.30-15.50 Multiple organ failure manifestations in adult with dengue infection Sompono Punyagupta (Thailand)</p> <p>15.50-16.10 Dengue infection: Unusual manifestation Usa Thisyakorn (Thailand)</p>	<p>15.30-15.40 (0320_R01) Dengue envelope domain III-based tetravalent vaccine candidate Sathyamangalam Swaminathan (India)</p> <p>15.40-15.50 (0271_R01) A tetravalent dengue vaccine based on a complex adenovirus vector provides 100% protection of non-human primates against all four dengue serotypes John Dong (USA)</p> <p>15.50-16.00 (0102_R01) Protection against dengue virus infections in non-human primates using tetravalent dengue vaccines in a prime-boost strategy Monika Simmons (USA)</p> <p>16.00-16.10 (0438_R01) Atomic resolution structures of complexes between a cross reactive antibody and the envelope protein of all four dengue serotypes Joseph Cockburn (France)</p> <p>16.10-16.20 (0129_R01) Isolation and characterization of human monoclonal antibodies against dengue viruses Martina Beltramello (Switzerland)</p> <p>16.20-16.30 (0293_R01) Epitope-specific immune responses in dengue virus type 2- infected human patients Wayne Crill (USA)</p>	<p>15.30-15.40 (0075_R01) Dengue: Lessons in pathogenesis from Vietnamese infants Cameron Simmons (Vietnam)</p> <p>15.40-15.50 (0411_R01) Immunodominance in dengue virus infection Allison Imrie (USA)</p> <p>15.50-16.00 (0447_R01) Kinetics of sNS1 and viremia in plasma in early dengue disease Huynh Duyen (Vietnam)</p> <p>16.00-16.10 (0105_R01) Dengue virus-infected dendritic cells trigger vascular leakage via metallo-proteinase activities Francisco Veas (France)</p> <p>16.10-16.20 (0178_R01) Dengue infection in neotropical forest mammals: Incidental hosts or potential reservoirs? Anne Lavergne (French Guiana)</p> <p>16.20-16.30 (0290_R01) Differential diagnosis of dengue and west Nile virus in a dengue endemic population Elizabeth Hunsperger (Puerto Rico)</p>	<p>Symposium 12: Eco-bio-social and cultural approaches to dengue control Chairperson: Johannes Sommerfeld (WHO-TDR) Co-chairperson: Wichai Satimai (Thailand)</p> <p>16.00-16.15 Eco-Bio-Social approach to dengue research in Thailand Pattamaporn Kittayapong (Thailand)</p> <p>16.15-16.30 Eco-Bio-Social approach to dengue research in India Natarajan Arunachalam (India)</p>

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		<p>16.30-16.40 (0099_R01) Risk assessment of emerging and re-emerging flaviviruses using wild birds in Japan Mika Saito (<i>Japan</i>)</p>	<p>16.30-16.45 Building innovative community for a people centered dengue vector management in Yogyakarta, Indonesia Susilowati Tana (<i>Indonesia</i>)</p> <p>16.45-17.00 Development and disease control: An example from PAHO Olivia Brathwaite-Dick (<i>WHO-PAHO</i>)</p> <p>Oral Presentation 7s: Vector Biology and Control Chairperson: Chitapa Ketavan (<i>Thailand</i>) Co-chairperson: Pattamaporn Kittayapong (<i>Thailand</i>)</p> <p>17.30-17.40 (0173_R01) An integrated approach for the control of <i>Aedes aegypti</i> using icon 10 CS in Cuba Juan Bisset Lazcano (<i>Cuba</i>)</p> <p>17.40-17.50 (0332_R01) Do pyrethroids have a promising future? Distribution analysis of pyrethroid resistance in the dengue vectors, <i>Aedes aegypti</i> and <i>Aedes albopictus</i> in Vietnam Hitoshi Kawada (<i>Japan</i>)</p> <p>17.50-18.00 (0164_R01) Residual effects of <i>Acorus calamus</i>, <i>Piper aduncum</i> and <i>Litsea elliptica</i> essential oils against <i>Aedes aegypti</i> (Diptera: Culicidae) in laboratory Hidayatulfathi Othman (<i>Malaysia</i>)</p>
<p>17.00-18.00 Poster Presentation and Colloquium (Grand Ballroom A) Chairperson: Srisakul (Susie) Kliks</p> <p>Epidemiology (0331_P01) Changes in the features of dengue in the city of Rio de Janeiro Cecilia Nicolai (<i>Brazil</i>)</p> <p>Epidemiology (0473_P01) Geographical expansion of <i>Aedes aegypti</i> contributes to Singapore's dengue outbreaks Siok Yin Sharon Tan (<i>Singapore</i>)</p> <p>Immune Response (0045_P01) Neutralizing antibody response variation against dengue 3 strains Mayling Vera (<i>Cuba</i>)</p> <p>Immunopathogenesis (0175_P01) CD14 and TGFB1 polymorphisms associated with dengue haemorrhagic fever and virus load Rong-Fu Chen (<i>Taiwan</i>)</p>			

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ROOM 4: LAGOON HALL

- 18.00-18.10** (0615_R01) Effect of Dean hurricane (August 2007) on *Aedes aegypti* larval indices and dengue situation in Martinique (French West Indies)
André Yébakima (*Martinique*)
- 18.10-18.20** (0225_R01) Modeling dengue cases in Costa Rica with climate data
Douglas Fuller (*USA*)
- 18.20-18.30** Climate change and dengue outbreak
Paul Reiter
- 18.30-18.40** (0189_R01) Mosquito database system
Siriwan Wongkoon (*Thailand*)
- 18.40-18.50** (0122_R01) Biological effect of catnip oil (*Nepeta cataria* L.) on the behavioral response of *Aedes aegypti*
Suppaluck Polsomboon (*Thailand*)
- 18.50-19.00** (0223_R01) Quantification of female *Aedes aegypti* resting behavior using a novel laboratory assay
Nicole Achee (*USA*)
- 19.00-19.10** (0292_R01) *Aedes aegypti* distribution, resting sites preferences and survival inside the houses in French Guiana
Florence Fouque (*France*)
- 19.10-19.20** (0301_R01) The use of an experimental huts for evaluating the movement behavior of *Aedes aegypti* (Diptera: Culicidae)
Nantawan Suwannachote (*Thailand*)

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ROOM 1: GRAND BALLROOM B

State-of-the-Art Lecture:
Chairperson: Saravudh Suwannadabbha
(*Thailand*)

08.30-09.00 Influencing policy dialogue, and development of a national agenda
Linda Whitford (*USA*)

ROOM 2: GRAND BALLROOM A

Symposium 14: New strategy in dengue treatment
Chairperson: Ichiro Kurane (*Japan*)
Co-chairperson: Siripen Kalayanaroj
(*Thailand*)

08.30-08.50 Early clinical diagnosis and effective IV fluid management in dengue
Siripen Kalayanaroj (*Thailand*)

ROOM 3: ARCADIA HALL

State-of-the-Art Lecture:
Chairperson: Bencha Yoddumnern-Attig
(*Thailand*)

08.30-09.00 Economic burden of dengue in Thailand, Vietnam, and Cook Island
Carol Beaver (*Australia*)

ROOM 4: LAGOON HALL

Symposium 16: Dengue Vaccine II
Chairperson: Pratap Singhasivanon
(*Thailand*)
Co-chairperson: Julie Jacobson (*USA*)

08.30-08.50 The growing burden of dengue in Latin America
Roberto Tapia (*Mexico*)

ROOM 1: GRAND BALLROOM B	ROOM 2: GRAND BALLROOM A	ROOM 3: ARCADIA HALL	ROOM 4: LAGOON HALL
<p>Oral Presentation 8: Social and cultural issues Chairperson: Saravudh Suwannadabbha (Thailand) Co-chairperson: Pratap Singhasivanon (Thailand)</p> <p>09.00-09.15 (0278_R01) Social and cultural obstacles of waste management and vector-borne diseases control in Sri Lanka Kankanige Karunathilake (Sri Lanka)</p> <p>09.15-09.30 (0080_R02) Man made epidemics of dengue fever in Jeddah Naeema Akbar (Saudi Arabia)</p> <p>09.30-09.45 (0112_R01) Dengue decision support system: Development and delivery Lars Eisen (USA)</p> <p>09.45-10.00 (0253_R01) People participation in preventing and controlling dengue hemorrhagic fever: Manjakhiri District, Khon Kaen Province Werachai Sudjanham (Thailand)</p>	<p>08.50-09.10 Different points in adult DHF management Fathmath Nadhiya (India)</p> <p>09.10-09.30 How to deal with DHF with massive bleeding Ampaiwan Chuansumrit (Thailand)</p> <p>09.30-09.50 ICU care for severe/complicated DHF cases Lucy Lum (Malaysia)</p>	<p>Oral Presentation 10: Social issues and Epidemiology Chairperson: Robert Gibbons (AFR/MS)</p> <p>09.00-09.15 (0114_R01) Factors related to medical care cost of children with dengue disease in Khon Kaen hospital, Thailand Padejsak Chobtum (Thailand)</p> <p>09.15-09.30 (0286_R01) Distribution of dengue transmission, Sakon Nakhon Province, Thailand, 2005-2006 Malee Sriprom (Thailand)</p> <p>09.30-09.45 (0118_R01) Economic cost of dengue hospitalised episode to Thai society in Khon Kaen, Thailand Sukhontha Kongsin (Thailand)</p> <p>09.45-10.00 (0400_R04) Health economics of dengue: Methodology and data needs Mark Beatty (Korea)</p>	<p>08.50-09.10 WHO clinical assay guidelines Joachim Hombach (WHO-Geneva)</p> <p>09.10-09.30 Laboratory assays and field dengue vaccine evaluation Sutee Yoksan (Thailand)</p> <p>09.30-09.50 Immune response induced by dengue vaccine Bruno Guy (Sanofi Pasteur)</p>

10.00-10.30 Break

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<p>Symposium 13: Community based approaches in dengue control Chairperson: Bencha Yoddumnern-Attig (<i>Thailand</i>) Co-chairperson: John Ehrenberg (<i>WHO-WPRO</i>)</p> <p>10.30-10.50 Using Mesocyclops as a biological control agent in community based dengue control programs in rural areas in Vietnam: A continuing success story Vu Sinh Nam (<i>Vietnam</i>)</p> <p>Oral presentation: 10.50-11.10 (0082_R03) Spatial diffusion patterns of the first dengue epidemic in Salvador, Bahia, Brazil Maria Gloria Teixeira (<i>Brazil</i>)</p> <p>11.10-11.30 Linking environmental conservation with health service programmes in remote communities Volkan Cakir (<i>Madagascar</i>)</p>	<p>State-of-the-Art Lecture: Chairperson: Scott Halstead (<i>USA</i>)</p> <p>10.30-11.00 Novel approaches on anti-dengue drug discovery Wouter Schul (<i>Novartis Institute</i>)</p> <p>Oral presentation 9: Treatment and Anti-dengue Agents Chairperson: Lucy Lum (<i>Malaysia</i>) Co-chairperson: Ampaiwan Chuansumrit (<i>Thailand</i>)</p> <p>11.00-11.10 (0244_R01) Inhibitors of the flavivirus protease/ cofactor interface Paul Young (<i>Australia</i>)</p> <p>11.10-11.20 (0128_R01) Design of inhibitor for dengue virus type 2 NS2B/3 serine protease Noorsaadah Rahman (<i>Malaysia</i>)</p> <p>11.20-11.30 (0316_R01) The fibrin-derived peptide beta15-42 (FX06) for treatment of capillary leak Petra Wuelfroth (<i>Switzerland</i>)</p>	<p>Symposium 15: Epidemiology, surveillance and dengue vector management Chairperson: Axel Kroeger (<i>WHO, Geneva</i>) Co-chairperson: Supamit Chunsuttiwat (<i>Thailand</i>)</p> <p>10.30-10.45 Ecology and epidemiology of dengue: A case study from Thailand Thomas Scott (<i>USA</i>)</p> <p>10.45-11.00 Sensitive virus detection in human and non-human samples for clinical diagnostic and public health surveillance in Thailand Sylvie Manguin (<i>France</i>)</p> <p>11.00-11.15 GIS applications to study the effects of human practices John Grieco (<i>USA</i>)</p> <p>11.15-11.30 SEARO-WPRO Bi-regional strategic plan for dengue control Chusak Prasittisuk (<i>WHO-SEARO</i>)</p>	<p>10.30-10.50 Recent progress on Sanofi Pasteur dengue vaccine candidate Jean Lang (<i>Sanofi Pasteur</i>)</p> <p>10.50-11.10 Population based active surveillance for dengue vaccine trials Bill Letson (<i>PDI</i>)</p> <p>11.10-11.30 Dengue clinical development: from WHO guidelines to field evaluation Arune Sabcharoen (<i>Thailand</i>)</p>

ROOM 1: GRAND BALLROOM B	ROOM 2: GRAND BALLROOM A	ROOM 3: ARCADIA HALL	ROOM 4: LAGOON HALL
<p>11.30-11.50 The community-based approach for integrated health programmes Seri Tongmak (<i>Thailand</i>)</p>	<p>11.30-11.40 (0109_R01) Molecular design of sunflower trypsin inhibitor-1 peptide analogues as dengue virus NS2B-NS3 inhibitor Jerome Panibe (<i>Philippines</i>)</p> <p>11.40-11.50 (0103_R01) Cell-based high throughput screening for inhibitors of dengue virus Qing-Yin Wang (<i>Singapore</i>)</p> <p>11.50-12.00 (0275_R01) Choice of colloidal solutions in dengue hemorrhagic fever patients Mukda Vangveeravong (<i>Thailand</i>)</p>	<p>11.30-11.45 Integrated vector management for dengue control Moh Seng Chang (<i>Malaysia</i>)</p> <p>11.45-12.00 Open for discussion</p>	<p>11.30-11.45 The economic burden of dengue Joel Kuritsky (<i>PDVI</i>)</p> <p>11.45-12.00 Dengue vaccine access and advocacy Richard Mahoney (<i>PDVI</i>)</p>
12.00-13.00 Lunch		Luncheon Symposium: Sponsored by STANDARD DIAGNOSTICS, INC.	

13.00-14.00

Poster Presentation and Colloquium (Arcadia Hall)
Chairperson: Anon Srikiatkachorn (*USA*)

Vaccines

(0303_P01) Elicitation of broadly reactive immune responses by a dengue virus-like particle with consensus proteins
Ted Ross (*USA*)

Treatment

(0317_P01) Peptide-mediated siRNA delivery attenuates dengue infection in human dendritic cells and macrophages
Sandesh Subramanya (*USA*)

Vector

(0356_P01) Field evaluation of modified approach of chemical fogging against conventional fogging in controlling the dengue outbreak
Omar Mihat (*Malaysia*)

Vector

(0218_P01) Relation between house index (HI) levels obtained by fast index survey (LIRA) and dengue virus circulation in Brazilian municipalities
Giovanini Coelho (*Brazil*)



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Closing session Room:

14.00-14.30 **Special Lecture:** 'The 20th Century Emergence and Spread of Epidemic Dengue/Dengue Hemorrhagic Fever: Is Climate or Environment Change Responsible?'
Duane Gubler (USA)

14.30-15.00 **Closing Speech:** **Prasert Thongcharoen** (*Thailand*)
Chairman of the Scientific Organizing Committee

Post Conference Meeting

18 October 2008
ARCADIA HALL

9.00 – 15.00 **Post Conference Meeting: Innovative Dengue Vector Control Network**
Duane Gubler (USA)