

PROGRAM/PROGRAMA

OPENING CEREMONY

2nd International Congress on Dengue and Yellow Fever

Plenary

Monday, May 31, 2004

Havana International Conference Center

18:00 – 19:30hrs

Opening Ceremony

17:45hrs All guests to be seated

18:00hrs Welcome Remarks

18:20hrs Plenary Lecture: Health System of Cuba. D Peña, Minister of Public Health

18:45hrs Plenary Lecture: Commemoration Carlos J. Finlay. Anniversary 170. G Delgado, Historian of the Public Health Ministry

19:30hrs Welcome Cocktail at the Bucan Restaurant, Havana International Conference Center for all participants and registered accompanying persons.

CEREMONIA INAUGURAL

II Congreso Internacional de Dengue y Fiebre Amarilla

Salón Plenario

Lunes 31 de Mayo de 2004

Palacio de Convenciones de La Habana

18:00 – 19:30hrs

17:45: Todos los delegados deben estar sentados.

18:00: Palabras de Bienvenida.

18:15: Conferencia en Plenario: El Sistema de Salud en Cuba. Dr. Damodar Peña, Ministro de Salud Pública.

18:45: Conferencia en Plenario: Conmemoración del 170 Aniversario de Carlos J. Finlay. G Delgado, Historiador del Ministerio de Salud Publica

19:30: Cóctel de Bienvenida en el Restaurante Bucan del Palacio de convenciones de La Habana.

SESSION THUESDAY, JUNE 1, 2004 / MARTES 1 DE JUNIO DEL 2004
2nd International Congress on Dengue and Yellow Fever

PLENARY/SALON PLENARIO

SYMPOSIUM: ACHIEVING BEHAVIORAL IMPACT/ HACIA UN IMPACTO CONDUCTUAL

Co-chairs/Co- Presidente: Dr Elil Renganathan, WHO/WMC
Prof. Gustavo Kouri, IPK/Cuba

Oral Presentations / Presentación oral

14:00 – 14:20: COMBI COMMUNICATION FOR BEHAVIOURAL IMPACT
E. Renganathan WHO Mediterranean Centre, Tunis

14:20 – 14:40: SOCIAL SCIENCE AND DENGUE - THE NEED FOR INDICATOR
L. Lloyd. Consultant, USA

14:40 – 15:00: AN ECOSYSTEM APPROACH TO SOCIAL AND BEHAVIORAL CHANGES FOR DENGUE PREVENTION
R Bazzani , A Boichio. International Development Research Centre, Canada

15:00 – 15:15: SOCIAL COMMUNICATION STRATEGY FOR BEHAVIORAL CHANGES ON DENGUE IN NICARAGUA
M Gurdíán, V Chamorro, E Lugo, LA Campos, A Soto, B Acevedo, A Uriza. Ministry of Health, Nicaragua

15:15 – 15:30: CONTROLLING AND PREVENTING DENGUE FEVER THROUGH COMBI: MALAYSIAN EXPERIENCE
R Suhaili. Ministry of Health Malaysia

15:30 – 15:45: INTEGRATED APPROACH TO DENGUE FEVER USING THE STRATEGY OF COMMUNITY NETWORKS. PUNTARENAS. COSTA RICA 2004.
J Campos, T Solano. Ministry of Health, Costa Rica

15:45 – 16:00: IMPACTING ALL TO CHANGE THE BEHAVIOR TO PREVENT DENGUE, IS THIS NECESSARY?
J Luna. 3-H Corporation, Bucaramanga & University of Santander. Colombia

16:00 – 16:15: HOW TO ACHIEVE BEHAVIOURAL CHANGES IN DENGUE PREVENTION? CUBAN

EXPERIENCE

L Sanchez. ME Toledo, AM de la Cruz, D Perez, C Diaz, Y Torres, A Reyes. IPK. Cuba

16:15 – 16:30: COMMUNITY PARTICIPATION IN CONTROLLING DHF IN INDONESIA

R Kusriastuti, T Suroso. Ministry of Health, Indonesia

16:30 – 16:45: DISCUSSION/ DISCUSION

16:45 – 17:00: NEGOTIATING IMPROVED PRACTICES TO CONTROL DENGUE FEVER IN THE

DOMINICAN REPUBLIC AND EL SALVADOR.

J Rosenbaum. Technical Consultant, USA

17:00 – 17:15: CONTRIBUTIONS OF POPULAR EDUCATION TO THE ECOSYSTEMIC APPROACH

TO THE PREVENTION OF DENGUE.

MI Romero. Centro Memorial Martin Luther King. Cuba

17:15 – 17:30: INDIVIDUAL AND COMMUNITY DYNAMICS IN CONTROLLING DENGUE

R Levins, T Awerbuch, Harvard School of Public Health, USA

CONFERENCE ROOM 3/ SALA 3

SYMPOSIUM: DENGUE, SPACE, SOCIETY AND INEQUITIES / DENGUE, ESPACIO, SOCIEDAD E INIQUIDADES

**Co-Chairs/ Co-Presidente: Dr. Enrique Loyola-Elizondo, México
MSc. Ivette Molina Serpa, Cuba**

Oral Presentations / Presentación oral

10:30 - 10:50: SOCIAL INQUALITIES AND DENGUE TRANSMISSION IN LATIN AMERICA.

A Castro, Y Khawja, J Johnston, M Herce, P Farmer. Harvard Medical School, USA

10:50 - 11:10: SOCIETY, ECONOMY, INEQUITIES AND DENGUE.

G Kourí, JL Pelegriño, MG Guzman, AM Alvarez. IPK, Cuba

11:10 - 11:25: COMMUNITY PERCEPTIONS, PREVENTIVE PRACTICES AND DENGUE

IN FORTALEZA, BRASIL.

AM Correia, A Caprara, G Almeida, JW Oliveira, MD Fernandez. Escola de Saúde Pública do Ceará, Brazil

11:25 - 11:40: USING A POLITICAL ECOLOGICAL APPROACH TO BETTER UNDERSTAND THE EMERGENCE AND PROLIFERACION OF DENGUE FEVER IN TRINIDAD.

J Egger. University of Washington, USA

11:40 -12:10: Lecture/ Conferencia IMPROVING PUBLIC HEALTH AND THE STUDY, PREVENTION AND CONTROL OF DISEASES WITH SIG-EPI PROJECT OF PAN AMERICAN HEALTH ORGANIZATION.

E Loyola-Elizondo, C Castillo-Salgado, M Vidaurre-Arenas, P Nájera-Aguilar, R Martinez.

Area of Health Analysis and Information Systems, PAHO.

12:10 -12:25: SIGepi: AN ANALYTICAL TOOL FOR STUDY, CONTROL AND PREVENTION OF DISEASES AND HEALTH EVENTS.

R Martinez, M Vidaurre-Arenas, E Loyola-Elizondo, P Nájera-Aguilar, C Castillo-Salgado.

Area of Health Analysis and Information Systems, PAHO.

12:25 -12:40: S2E DENGUE SURVEILLANCE NETWORK: THE USE OF A GIS FOR THE

MANAGEMENT OF DENGUE EPIDEMIC IN FRENCH GUIANA.

D Xavier, A Bouix, P Sabatier, J Morvan. Institut Pasteur de La Guyane, French Guiana

12:40 -12:55: GEOGRAPHIC INFORMATION SYSTEMS: IT'S APPLICATION DURING A DENGUE

EPIDEMIC IN HAVANA CITY, YEAR 2000.

I Molina, R Martinez, L Alfonso, B Galindo, A Perez, M Diaz, A Gala. IPK,

Cuba

12:55-01:10: SPATIAL VULNERABILITY OF ACQUIRING DENGUE. AN APPLICATION OF GIS IN

PLAYA MUNICIPALITY, HAVANA CITY.

T Perez, L Iñiguez, L Sanchez, R Remond. IPK, Cuba

CONFERENCE ROOM 4/ SALA 4

SIMPOSIUM: BIOLOGY AND ECOLOGY OF VECTOR/ BIOLOGÍA Y ECOLOGÍA DEL VECTOR

**Co-Chairs/ Co-Presidente: Dr. T Scott University of California at Davis (USA)
Dr. O Fuentes IPK (CUB)**

Oral presentation / Presentaciones orales

10:30 - 10:45: CORRELATION OF *Aedes aegypti*. INFESTATION INDICES IN THE URBAN AREA OF

MERIDA, MEXICO.

PC Manrique, P Coleman, C Davies. Universidad Autónoma de Yucatan-London
School of Hygiene

10:45 - 11:00: DEVELOPMENT AND SURVIVORSHIP OF *Ae. aegypti* IN DIFFERENT MAN-MADE

BREEDING SITES.

PC Manrique, F Dzul. Universidad Autónoma de Yucatan-London
School of Hygiene

11:00 - 11:15: SEASONAL PATTERN OF ABUNDANCE OF *Aedes aegypti* IN BUENOS AIRES CITY,

ARGENTINA.

N Schweigmann, D Vezzani, S M Velázquez Universidad de Buenos Aires / CONICET

11:15 - 11:30: OUTBREAK OF DENGUE IN NATIONAL CAPITAL TERRITORY OF DEHLI, INDIA

R Sharma, J Sokhey. National Vector Borne Disease Control Program

11:30 - 11:45: THE BIOCLIMATIC PREDICTION A TOOL FOR THE SURVEILLANCE AND VECTOR CONTROL

N León, P Ortiz , A Perez. Unidad Nacional de Vigilancia y Lucha Antivectorial. Cuba

11:45 - 12:00: USE OF THE PHYSIOLOGICAL AGE METHOD IN THE SURVEILLANCE AND

CONTROL OF *Aedes aegypti*, VECTOR OF DENGUE

O Fuentes, L Aguilera, M Castex, R Y Bruzón , Y Martinez I.P.K. Cuba

12:00 - 12:15: COMPONENTS OF *Aedes aegypti*'s ROLE IN DENGUE VIRUS TRANSMISSION:

HUMAN BLOOD-FEEDING BEHAVIOR AND AGE-DEPENDENT SURVIVAL

T Scott. University of California at Davis

12:15 - 12:30: FIELD EVALUATION OF TRADITIONAL VS. SINGLE AND PAIRED OVITRAPS

BAITED WITH DIFFERENT CONCENTRATIONS AND AGES OF BERMUDA GRASS

FOR THE SURVEILLANCE OF *Ae. aegypti*

PC Manrique, A Mendoza, E Rebollar, P Coleman, C Davies.
Universidad Autónoma de Yucatan-London School of Hygiene

12:30 - 12:45: MAIN BREEDING SITES OF *Ae. aegypti* DURING THE RAINY SEASON AT MERIDA, MEXICO

PC Manrique, A Zapata, F Dzul, A C Mendoza, E Rebollar, P Coleman, C Davies.

CONFERENCE ROOM 5/ SALA 5

SIMPOSIUM: VIRUS, NEW KNOWLEDGE / VIRUS, NUEVOS CONOCIMIENTOS

**Co-chairs- Co-Presidentes: Dr. B Canard, PhD, AFMB-CNRS, France
Dr. D Rosario PhD, IPK, Cuba.**

10:00 - 10:30: Lecture / Conferencia

**STRUCTURAL AND ENZYMATIC ANALYSIS OF THE
MULTIFUNCTIONAL
FLAVIVIRUS NS5 PROTEIN.**

B Canard. AFMB-CNRS, France

10:30 - 11:00: Lecture / Conferencia:

THE CYTOSKELETON IN DENGUE VIRUS INFECTION.

JC Gallego-Gómez., EA Hiuguita-David, MC Ospina-Ospina, JA Useme
Ciro, Universidad de Antioquia, Colombia

11:00 - 11:30 Lecture / Conferencia

**MOLECULAR EVOLUTION AND EPIDEMIOLOGY OF DENGUE-3
AND 4 VIRUSES
IN BANGKOK, THAILAND.**

C Zhang, Ch Klungthonga, P Monkongdeea, MP Mammen Jr, EC
Holmes. USAMC-
AFRIMS, USA.

Oral presentation/ Presentaciones orales:

**11:30- 11:45: THE ANTIVIRAL ACTIVITY OF SULFATED POLISACCHARIDES
AGAINST DENGUE
VIRUS DEPENDS ON THE VIRAL SEROTYPE AND THE HOST
CELL.**

EB Damonte, LB Talarico, CA Pujol, RG Mello-Zibetti, PC de Souza, MD
Noseda, MER
Duarte. Facultad de Ciencias Exactas y Naturales, Universidad de
Buenos Aires,
Argentina.

**11:45 - 12:00: DENGUE VIRUS TYPE 3 IN CUBA, FROM SMALL OUTBREAK IN
2000 TO A
BIGGER IN 2001.**

R Rodriguez-Roche, M Alvarez, EC Holmes, L Bernardo, G Kourí, EA
Gould, MG Guzman. IPK, Cuba

**12:00 - 12:15: PMA INCREASES SUSCEPTIBILITY OF HUMAN
NEUROBLASTOMA CELLS TO
DENGUE VIRUS INFECTION.**

J Gonzalez, R Rábago, R Garcia, Facultad de Farmacia, UAE-
Morelos, México.

**12:15 - 12:30: HIS TO ALA MUTATION OF NS3 CATALYTIC TRIAD ABROGATE
FORMATION OF**

MEMBRANE BLEBBING IN TRANSFECTED VERO CELLS.

NN Shafee, S AbuBakar. Universiti Putra, Malaysia,

SESSION WEDNESDAY, JUNE 2, 2004 / MIERCOLES 2 DE JUNIO DEL 2004
2nd International Congress on Dengue and Yellow Fever

CONFERENCE ROOM 3/ SALA 3

SYMPOSIUM: DENGUE EPIDEMIOLOGY AND SURVEILLANCE / EPIDEMIOLOGIA Y VIGILANCIA DEL DENGUE

Co-chairs- Co-Presidente: **Dr Chwan-Chuen King.** Institute of Epidemiology, Taiwan.

Dr R Duran, MINSAP, Cuba.

**9:00 – 10:30: ROUND TABLE / MESA REDONDA:
VECTOR TRANSMITTED DISEASES. CONTROL STRATEGIES AND
CURRENT
SITUATION.**

JL. San Martin, O. Oliva, R Salvatella. OPS/OMS.

Oral Presentations / Presentaciones orales.

**10:30 – 10:45: Construcción de la Estrategia Centroamericana de Prevención y
Control del
Dengue.**

M Prado, OPS.

**10:45-11:00: DENGUE FEVER AMONG TRAVELERS-EPIDEMIOLOGY, CLINICAL
AND
DIAGNOSTIC ASPECTS**

E Schwartz. The Center for Geographic and Tropical Medicine. Israel.

**11:00– 11:15: EXPERIENCIA DE LA DEFENSA CIVIL DE CUBA EN EL MANEJO
DE GRAVES**

EPIDEMIAS.

JE Betancourt, Defensa civil nacional, Cuba.

**11:15 - 11:30: CERTIFICATION OF A METHODOLOGICAL PROPOSAL TO
CONFIRM THE CEASING OF THE TRANSMISSION.**

L Alfonso, M Diaz, B Galindo, AM Alvarez, A Gala. IPK. Cuba

**11:30 - 11:45: DENGUE AND DENGUE HEMORRHAGIC FEVER IN BRAZIL:
REVIEW OF SURVEILLANCE DATA FROM 1981-2002.**

J Bosco, CM Turchi, GE Coelho, AC da Rocha, DL Hatch. Ministry of Health. Brazil.

11:45 - 12:00: DETERMINANTES DE LA EPIDEMIA DE DENGUE EN CUBA.

RM Duran, L Valdes, FA. Duran, K Nelson. MINSAP y Johns Hopkins University, Baltimore, Cuba /USA.

12:00 - 12:15: EMERGENCE OF DENGUE VIRUS TYPE-3 IN A DOMINANT FORM

AM Jana, AP Dash, A Mukul, J Parag, A Abhyankar, R Bhargava. Indian Council of Medical Research. India.

**12:15 - 12:30: CONTROL PROGRAM OF DENGUE: CRITICAL REFLECTION.
BRAZIL.**

LG da Silva , SL dos Santos. Fiocruz/Fiotec. Brasil.

Co-chairs/ Co-Presidente: **Dr E Schwartz**, Tel Aviv University, Israel.
Dr AM Alvarez, IPK. Cuba.

14:00 - 14:30: Lecture / Conferencia

INTEGRATED NATIONAL STRATEGY MANAGEMENT FOR THE PREVENTION AND CONTROL OF DENGUE IN NICARAGUA.

JJ Amador, F Acevedo, R Jimenez, M Obando, W Ideáquez, LA Campos, A Balmaseda, MJ Mendoza, S Moraga, G Moreno, C Salgado, I Tellez, J Tejerino, R Martinez, A Soto, E Lugo, S Valle, P Espinoza, A Juárez, E Prado, M Alfaro, S Nurinda, S Peña, E Lawrence, et al. Ministerio de Salud. Nicaragua.

14:30 - 15:00: Lecture / Conferencia:

EPIDEMIOLOGY AND PATHOGENESIS OF DENGUE FEVER/DENGUE HEMORRHAGIC FEVER EVIDENCE-BASED DISEASE CONTROL IN TAIWAN.

Chuan-Chuen King. College of Public Health, National Taiwan University. Taiwan

Oral Presentations / Presentaciones orales.

15:00 - 15:15: GENOTYPING OF DENGUE VIRUSES IN TRAVEL ACQUIRED INFECTIONS AS A TOOL FOR GLOBAL EPIDEMIOLOGICAL SURVEILLANCE

C Domingo, M Cabrerizo, S Puente, J Gascón, R López-Vélez, N Reyes, M Sánchez-Seco, A Tenorio. Instituto de Salud Carlos III, España.

15:15 - 15:30: INTEGRATED ANALYSIS OF THE DENGUE DISEASE SYSTEM.

H Padmanabha. IPK-Harvard collaboration. Cuba/USA

15:30 - 15:45: THE SENTINEL PROCESS, AN INTEGRAL APPROACH TO THE LOCAL SURVEILLANCE OF DENGUE FEVER

E Gonzalez, L Arma, AM Alvarez, A Gala, L Alfonso, B Galindo. IPK. Cuba.

15:45 - 16:00: Dengue burden of disease studies: A basis for policies on vaccine development, vector control , and treatment.

JA Suaya, DS Shepard, Brandies University, USA.

16:00 - 16:15: HEMORRHAGIC DENGUE IN EL SALVADOR 2002-2003

C Calderón. Laboratorio Central "Dr. Max Bloch". El Salvador.

16:15 - 16:30: IMPORTED DENGUE FROM ECUATORIAL GUINEA. THREE CASES

S Puente, M Martinez, M Lago, JM Bayona, A Tenorio, C Domingo, F de Ory, JM Gonzalez Lahoz. Instituto de Salud Carlos III. Madrid, España.

16:30 - 16:45: ANTIBODIES PREVALENCE AGAINST DENGUE AND LEPTOSPIRA IN THE STATE OF VERACRUZ, MÉXICO.

J Navarrete-Espinosa, JA Acevedo. IMSS. México

16:45 - 17:00: DENGUE EPIDEMIOLOGY IN BRAZIL, 2003

GE Coelho, J Bosco, AC da Rocha, FG Pimenta. Ministerio da Saúde. Brazil.

17:00 - 17:15: EPIDEMIOLOGY OF DENGUE IN SOUTH EAST ASIA: NEED FOR A NEW PARADIGM.

W Van Panhuis, D Guha-Sapir, H Oshitani. CRED. Belgian.

17:15 – 17:30: DHF OUTBREAK IN INDONESIA, 2004.

R Kusriastuti, U Fahmi, Ministry of Health, Indonesia

CONFERENCE ROOM 4/ SALA 4

Symposium: Laboratory Diagnosis/ Diagnóstico de laboratorio

**Co- Chairs/Co-presidente: Dr LC Castillo. Laboratorio Central , Guatemala.
Prof. Susana Vazquez PhD, IPK, Cuba**

Oral presentation / Presentaciones orales:

10:30-10:45: DENGUE FEVER/DENGUE HEMORRHAGIC FEVER IN GUATEMALA, PAST, PRESENT AND PERSPECTIVE 1978-2003.

L C Castillo, D Cruz, C Flores. Departamento de Epidemiología, Ministerio de Salud Pública. Guatemala.

10:45-11:00: DETECTION OF DENGUE INFECTION IN PARAFFIN-EMBEDDED SAMPLES USING PCR AND IMMUNOHISTOCHEMICAL ASSAY

JL Pelegrino, E Arteaga, A Martinez, MG Guzman, G Kourí. IPK, Cuba.

11:00-11:15: STUDY OF DIFFERENT SEROLOGICAL MARKERS DURING DENGUE VIRUS INFECTION

S Vazquez, S Cabezas, A B Perez , M Pupo, N Calzada, A Sanchez, O Castro, M G Guzman. IPK, Cuba

11:15-11:30: DENGUE –INDIAN SCENARIO.

AC Mishra, SC Sehgal. National Institute of Virology, Pune, India.

11:30-11:45: STUDY OF THE VIRAEMIA DURATION IN ADULTS HOSPITALIZED DURING 2001 DENGUE 3 OUTBREAK IN HAVANA CITY, CUBA.

D Rosario, I Prado, L Bernardo, M Alvarez, R Rodriguez, S Vazquez, MG Guzman. Cuba

11:45-12:00: MEETING THE NEED FOR DENGUE FIELD TESTING: A WHOLE BLOOD DENGUE LATERAL FLOW DEVICE.

C Stubbings M Garcia. NP Sunil-Chandra. PANBIO. Australia

12:00-12:15: RETROSPECTIVE STUDY TO DETERMINE THE DENGUE VIRUS CIRCULATION IN THE TROPIC OF COCHABAMBA BOLIVIA.

N Ortuño, JM Guzman, E Rojas, F Torrico. CUMETROP - IIBISMED, Cochabamba, Bolivia

12:15-12:30: UMELISA DENGUE IGM PLUS: MAIN CHARACTERISTICS AND RESULTS OF ITS PERFORMANCE.

I Valdivia, A Palenzuela, R Herrera, S Feal, O Zulueta, J Ventura, C Silva, N Carlos. CIE. Cuba.

12:30-12:45: IMMUNOHISTOCHEMICAL DEMONSTRATIONS FOR THE PRESENCE OF DENGUE 3 SEROTYPE ANTIGENS IN TISSUES FROM AUTOPSIES.
V Capó. IPK, Cuba.

SYMPOSIUM: HOST PATHOPHYSIOLOGY AND GENETICS IN DENGUE INFECTION/ FISIOPATOLOGIA Y GENETICA EN LA INFECCION POR VIRUS DENGUE

Co-chairs / Co-Presidente: Dr. Irene Bosch PhD, University of Massachusetts Medical School, USA

Dr. Beatriz Sierra MSc, IPK, Cuba.

14:00 - 14:30: Lecture / Conferencia
DENGUE: A HOLISTIC APPROACH TO A COMPLEX PROBLEM.
J Farrar, Hospital for Tropical Diseases, Vietnam.

14:30 – 15:00: Lecture / Conferencia
CUBAN EPIDEMIOLOGICAL EVIDENCES OF ANTIBODY DEPENDENT ENHANCEMENT. IMPLICATIONS FOR DHF OUTCOME.
M G Guzman, G Kouri, S Vazquez, Luis Valdes, M Alvarez R Rodriguez Roche,
D Gonzalez, O Castro, IPK, Cuba.

15:00 – 15:30: Lecture / Conferencia
IMMUNOPATHOGENESIS OF DENGUE VIRUS INFECTION
HY Lei, K-J Huang, YC Yang, YS Lin, TM Yeh, HS Liu, SH Chen, CC Liu.
Department of Microbiology & Immunology, College of Medicine, Taiwan.

15:30 – 16:00: Lecture / Conferencia
DENGUE VIRUS INFECTION OF PERIPHERAL BLOOD LEUKOCYTES EX VIVO AND IN VIVO AND ITS EFFECTS ON GLOBAL GENE EXPRESSION.
I Bosch Blumenfeld, K Martin, A Becerra, K X, R Warke, D Casey, S Shaw
University of Massachusetts Medical School, USA

Oral Presentations / Presentaciones orales

16:15 - 16:30: ELEVATED LEVELS OF VCAM-1 IN HUMAN AND NON-HUMAN PRIMATES DURING DENGUE VIRUS INFECTION.
P Koraka, K Stittelaar, GV Amerongen, A D.M.E. Osterhaus. MC Erasmus, Holland.

16:15 - 16:30: NITRIC OXIDE IN DENGUE VIRUS INFECTION.

G Garcia, AB Perez, B Sierra, R Rodriguez, R Martinez, MG Guzman.
IPK, CUBA.

16:30 - 16:45: Increased IL-10 levels during dengue infection

AB Perez, G Garcia, B Sierra, MV Cabrera, S Vazquez, M Alvarez, T
Denny, MG
Guzman_IPK, CUBA

16:00 - 16:15: DISCUSSION/DISCUSIÓN

16:45 - 17:00: AUTOPSY FINDINGS IN DENGUE FEVER. EPIDEMIC OF 2001-2002.

V Capó, JC Perez, IPK, Cuba.

17:15 - 17:30: HLA-DR ANTIGEN FREQUENCIES IN MEXICAN PATIENTS WITH DENGUE VIRUS

INFECTION AS POSSIBLE GENETIC RESISTANCE FACTOR FOR DENGUE HEMORRHAGIC FEVER.

C Ramos, C LaFleur, J Granados, G Vargas- Alarcón, H Rangel, R Figueroa, E Lazcano , J Falcón-Lezama. INSP. Mexico.

17:30 - 17:45: HLA A, B, C AND DR1 FREQUENCIES IN DENGUE IMMUNE CUBAN INDIVIDUALS.

BC Sierra, R Alegre, AB Perez, G Garcia, K Sturn-Ramirez, Luis Valdes, Ph Kanki, M G. Guzman, IPK, Cuba.

CONFERENCE ROOM 5/ SALA 5

SYMPOSIUM: ECOSYSTEM APPROACH TO HUMAN HEALTH FOR THE PREVENTION OF

DENGUE/ APROXIMACION ECOSISTEMICA PARA LA PREVENCION DEL DENGUE

**Co-Chairs / Co-Presidentes: Dr. A Boischio, IDRC, Canada
Dr. M Garcia, INHEM, Cuba**

10:30 – 11:10: Lecture / Conferencia

AN ECOSYSTEM APPROACH FOR THE ECOLOGICAL FACTORS IN DENGUE.

A Boischio. IDRC, Canada

11:10 – 12:40: ROUND TABLE / MESA REDONDA:

AN ECOSYSTEM APPROACH TO HUMAN HEALTH FOR THE PREVENTION OF

DENGUE. HAVANA CITY. CUBA.

Moderator/Moderador: R Bazzani, IDRC, Canada

Participants/ Participantes: C Diaz, IPK, Cuba

ME Piquero, UMHE Cotorro, Cuba

M Garcia, INHEM, Cuba

Á Alvarez, IPK, Cuba

B Galindo, IPK, Cuba

Y Torres, IPK, Cuba

Co-Chairs / Co-Presidente: R Bazzani, IDRC, Canada
C Diaz, IPK, Cuba

14:30 – 15:00: Lecture / Conferencia
GLOBAL ECOLOGICAL CHANGES
J Spiegel. Liu Institute for Global Issues, UBC, Canada

Oral Presentations / Presentaciones orales:

15:00 – 15:20: DEVELOPMENT OF A COMMUNITY-BASED STRATEGY FOR DENGUE AND DIARRHOEA RISK REDUCTION IN URBAN ECOSYSTEMS ALONG GUATEMALA BORDER WITH SOUTHERN MEXICO. A MODEL FOR HEALTH MUNICIPALITIES AND SUSTAINABLE DEVELOPMENT.
R Luján-Lunsford, O Torres, C Haeussler, ZA Hernández-Ramírez, JF Hernández-
Escobar INCAP/OPS, Guatemala

15:20 – 15:40: A COMMUNITY-BASED APPROACH FOR ADEQUATE WATER-MANAGEMENT IN THE PREVENTION OF DIARRHOEA AND DENGUE IN SOUTHERN MEXICO. TIME-ZERO OBSERVATIONS.
JI Arredondo, JG Ordóñez-González, NE Rivero-Pérez, INSP Tapachula, Mexico

15:40 – 16:10: DISCUSSION/ DISCUSIÓN

16:10 – 16:30: AN ECOSYSTEM APPROACH TO HUMAN HEALTH FOR THE PREVENTION OF DENGUE IN CENTRAL HAVANA. HAVANA CITY. CUBA.
M Bonet, G Kouri, AM Ibarra, C Diaz, M Rosales, M Concepción, J Spiegel, AM Alvarez
INHEM-IPK Cuba, Liu Institute for Global Issues, UBC, Canada

16:30 – 16:50: ECOSYSTEM APPROACH TO EVALUATE RE-EMERGENCE OF DENGUE IN COLOMBIA.
G Carrasquilla, R Suárez, J Quintero, A Porras, J García, Fundación Santa Fé, Colombia

16:50 – 17:10: URBANIZATION, COMMUNITY DYNAMICS, POLICY RESPONSE, AND ENGUE IN FORTALEZA, BRAZIL: AN ECO- BIO-SOCIAL ANALYSIS.
A Caprara, A Correia, P Marinho, J Wellington, Universidad Estadual do Ceara, Brazil

17:10 – 17:30: ECOSYSTEM APPROACH TO THE PREVENTION AND CONTROL OF *Aedes* AEGYPTI IN URUGUAY AND ARGENTINA.

CONFERENCE ROOM 11/ SALA 11

SYMPOSIUM: *AE. AEGYPTI* PUPAL SURVEILLANCE / VIGILANCIA PUPAL DE *A. AEGYPTI*

Co-Chairs / Co-Presidente : Dr M Nathan, WHO / OMS
Dr Dana Focks, ID-Analysis, USA

11:00 - 11:15: Welcoming remarks / Palabras de Bienvenida

JA Bisset, IPK, Cuba
A Kroeger, WHO
DA Focks, ID-Analysis, USA

11:15 - 11:30: PUPAL PRODUCTION PATTERNS FOR *AEDES AEGYPTI* IN RESIDENTIAL AND NON-RESIDENTIAL SITES IN THE AMAZONIAN CITY OF IQUITOS, PERU

AC Morrison, University of California Davis, Proyecto Dengue, Iquitos
Peru

11:30 - 11:45: RESULTS OBTAINED FROM A GIS-RECORDED *AEDES AEGYPTI* INDEX AND PRODUCTIVITY SURVEILLANCE PROGRAM FOCUSED AROUND THE DOCK AREAS OF COLOMBIA'S PRINCIPAL SEAPORT

CM Romero, Universidad del Norte, Baranquilla, Colombia

11:45 - 12:00: THE USE OF THE *AEDES AEGYPTI* PUPAL SURVEY TECHNIQUE TO DETERMINE KEY BREEDING CONTAINERS IN TRUJILLO, VENEZUELA

AE Lenhart, Liverpool School of Tropical Medicine, Venezuela Project

12:00 - 12:15: *AE. AEGYPTI* PUPAL SURVEILLANCE IN PLAYA, HAVANA CITY, IN ORDER TO DETERMINE CONTAINER PRODUCTIVITY AND ECOLOGICAL RISK FACTORS FOR DENGUE TRANSMISSION

H Padmanabha, IPK, Cuba

12:15 - 13:30: RELIABILITY AND PRACTICALITY OF PUPAL SURVEYS

DA Focks, ID-Analysis, USA

SESSION THURSDAY, JUNE 3, 2004/ JUEVES 3 DE JUNIO DEL 2004
2nd International Congress on Dengue and Yellow Fever

PLENARY / SALON PLENARIO

SYMPOSIUM: VECTOR CONTROL / CONTROL DE VECTORES

Co-chairs / Co-Presidente: Dr. AE Flores, Universidad Autónoma de Nuevo León, México

Dr. JA Bisset, IPK, Cuba

09:00 – 09:30: Lecture / Conferencia

NOVEL MOLECULAR METHODS FOR DENGUE CONTROL THROUGH THE INSECT VECTOR.

J Hemingway, J Foussel. Liverpool School of Tropical Medicine, UK.

Oral presentation / Presentaciones orales:

09:30-09:45: CHARACTERIZATION OF PERMETHRIN RESISTANCE IN FIELD POPULATIONS OF *Aedes Aegypti* (L.) FROM MEXICO.

AE Flores, I Fernandez, G Ponce, H Loiaza, WC Black, WG Brogdon, B Beaty. Universidad Autónoma de Nuevo León, Mexico

09:45-10:00: THE USE OF PERMANET® JAR COVERS FOR *Aedes Aegypti* CONTROL IN A DENGUE ENDEMIC ZONE OF VENEZUELA.

E Villegas, LH Ogar, A E Lenhart, A Kroeger. Centro de Investigación, Venezuela

10:00-10:15: FIRST REPORT OF MODIFIED ACETYLCHOLINESTERASE AS A RESISTANCE MECHANISM IN A STRAIN OF *Aedes Aegypti* FROM SANTIAGO DE CUBA.

J Bisset, MM Rodriguez, D Fernandez, O Perez. IPK, Cuba.

10:15-10:30: MECHANICAL ELIMINATION OF *Aedes Aegypti* EGGS'S FOR ERADICATION OF URBAN DENGUE IN SECHURA-PIURA TOWN PERU. MARCH – DECEMBER 2001.

F Pasapera, F Llontop, J Machaca,. Local Community of Administration Health Sechura, Peru.

10:30- 10:40: DISCUSSION / DISCUSIÓN

10:40- 10:55: ONE HUNDRED YEARS OF SURVEILLANCE FOR DENGUE CONTROL AND YELLOW FEVER IN PANAMA. LESSON FORGOTTEN.

V Bayard, E Quiroz, J Galindo. Inst. Conmemorativo Gorgas de Estudios de la Salud, Panama

10:55-11:10: TOWARDS A BETTER VECTOR BORNE DISEASE CONTROL WITH THE IMSS- OPPORTUNITY.

C Escandón, J Cabral, A Kroeger, F Ortiz, P Perez, O Aldana, A Cedillo, G Vilchis. IMSS- Oportunidades, Mexico.

- 11:10-11:25: RESULTS OF A CARRIED INVESTIGATIVE WORK AGAINST AN DENGUE OUTBREAK AT JINOTEGA, NICARAGUA, 2002.**
A R Guerra. UPVLA Ciego de Avila, Cuba
- 11:25-11:40: DENGUE VECTOR CONTROL IN CHENNAI CITY, INDIA. APPROACH TO DEVELOP COMMUNITY BASED.**
AP Dash, SC Sehgal. Indian Council of Medical Research. India
- 11:40-11:50: DISCUSSION/DISCUSIÓN**
- 11:50-12:05: WATER MITES (ACARI: HYDRACHNIDIA) AS *AEDES AEGYPTI* (DIPTERA : CULICIDAE) EGGS AND LARVAE PREDATOR .**
CH Marín, C Cramer, H Quiroz, VA Rodriguez. UNAM, Mexico.
- 12:05-12:20: NEW STRATEGY FOR DENGUE ELIMINATES *AEDES AEGYPTI* IN NORTHERN AND CENTRAL VIETNAM.**
V Sinh Nam, B Kay. General Department of Preventive Medicine and HIV/AIDS Control, Viet Nam.
- 12:20-12:35: EFFECTIVENESS AND PERMANENCY OF THREE FORMULATIONS OF *BACILLUS THURINGIENSIS* SH-14 AGAINST *AEDES AEGYPTI* IN NATAL, RIO GRANDE DEL NORTE , BRAZIL.**
A Souza, TM da Silva, GE dos Santos, MG da Rocha, I Duarte, R Gonzalez. Entomología Río Grande del Norte, Brazil
- 12:35-12:50: FIELD APPLICATIONS OF *BACILLUS THURINGIENSIS* VAR, ISRAELENIS SH-14 FORMULATION AGAINST *AEDES AEGYPTI* (DIPTERA :CULICIDAE) IN NOVA IGAUÇU MUNICIPALITY , STATE OF RIO DE JANEIRO, BRAZIL .**
U Gomez, W da Costa. Cordenacao de Controle de Vetores, Brazil
- 12:50-13:05: FIELD APPLICATION OF BACTIVEC (LABIOFAM – CUBA) AGAINST *AEDES AEGYPTI* LARVAE (DIPTERA: CULICIDAE) IN 5 MUNICIPALITIES, MINAS GERAIS STATE, BRAZIL.**
M Hernandez, J Beritán, G Montero, R Sanchez, A Herrera, G Almeida LABIOFAM, Cuba.

CONFERENCE ROOM 3/ SALA 3

SYMPOSIUM: CLINICAL MANAGEMENT: WHAT HAS BEEN LEARNED?/ MANEJO CLINICO QUE HEMOS APRENDIDO?

**Co- Chairs / Co-Presidente: Dr. S Nimmannitya
Dr. E Martinez.**

09:00- 09:45: Lecture / Conferencia
DENGUE HEMORRHAGIC FEVER: DIAGNOSIS AND MANAGEMENT AN APPRAIZAL OF WHO GUIDLINE.
S Nimmannitya. National Institute of Child Health. Thailand.

09:45 - 10:10: Lecture / Conferencia

DENGUE AND DENGUE HEMORRHAGIC FEVER. EXPERIENCE IN CLINICAL MANAGEMENT IN CHILDREN

E Martinez.

Public Health Ministry. Cuba.

Oral presentations / Presentaciones orales:

10:10 - 10:25: MORTALITY IN CHILDREN WHO HAD DENGUE HAEMORRHAGIC FEVER AT THE UNIVERSITY HOSPITAL "HERANDO MOUCALERNO PERDOMO" FROM NEIVA, HUILA, COLOMBIA.

JA Rodriguez, DM Salgado, R Vega. Universidad Sur. Colombia.

10:25- 10:40: CLINICAL STUDY OF CHILDREN WITH DENGUE IN THE CHILDREN'S HOSPITAL "MANUEL DE JESÚS RIVERA" IN MANAGUA, NICARAGUA, SEPTEMBER 2003 TO JANUARY 2004.

AL Balmaseda, S Hammond, C Rocha, SI Saborio, Y Tellez, C Machado, N Soza, E Harris. CNDR'MINSA. Nicaragua.

10:40- 10:55: EFFECTS OF THE DENGUE VIRUS DURING PREGNANCY AND NEWBORN,

ANTIOQUIA, COLOMBIA.

BN Restrepo, DM Isaza, RE Ramirez, JL Ramirez, GE Upegui, M Ospina.

Instituto Colombiano de Medicina Tropical. Colombia.

10:55-11:10: OPTIMIZATION OF CLINICAL DIAGNOSIS OF DENGUE HEMORRHAGIC FEVER (DHF/DSS)

Niños
E Pleites, AW Clará, RA Chacón, GM Marón. Hospital Nacional de Benjamin. El Salvador.

11:10- 11:30: ALGORITHM IN FEVER SYNDROME.

A Seijo. Hospital FJ Muñoz. Argentina.

11:30- 11:50: Lecture / Conferencia

WARNING SIGNS FOR DENGUE SHOCK SYNDROME. WHY IS IMPORTANT THEIR EARLY IDENTIFICATION?

F Zamora. Public Health Ministry. Cuba.

Oral presentations / Presentaciones orales:

11:50- 12:05: DENGUE VIRUS INFECTION IN TRAVELERS RETURNING TO BERLIN, GERMANY:

CLINICAL, LABORATORY AND DIAGNOSIS ASPECTS.

D Teichmann, K Gobels, M Niedrig, MP Grobusch. Department Infectious

Diseases and Tropical Medicine. Dresden. Germany.

12:05- 12:20: DENGUE HEMORRHAGIC FEVER IN HAVANA, 2001-2002. CLINICAL,

LABORATORY AND SONOGRAPHIC FINDINGS.

D Gonzalez, OE Castro, G Kourí, J Perez, E Martinez, S Vasquez, D Rosario, MG Guzmán. IPK. Cuba.

12:20- 12:35: CLINICAL DESCRIPTION OF DENGUE FEVER IN ADULTS. DENGUE EPIDEMIC IN

HAVANA, 2001-2002.

OE Castro, D Gonzalez, A Martinez, G Kourí, MG Guzman. IPK. Cuba.

12:35- 12:50: CARACTERIZACION CLINICO EPIDEMIOLOGICA DEL DENGUE Y DENGUE

HEMORRAGICO EN VENEZUELA.

I Villalobos. Hospital Central Maracay, Aragua. Venezuela

CONFERENCE ROOM 4/ SALA 4

SIMPOSIUM: VACCINE, INITIATIVES AND CHALLENGES/ VACUANAS, INICIATIVAS Y RETOS

Co-chairs / Co-Presidente: Dr. MG Guzman PhD., IPK, Cuba
To be determined / por determinar

09:00- 09:25: Lecture / Conferencia

WHO PRIORITIES IN SUPPORT OF DENGUE VACCINE DEVELOPMENT

J Hombach. IVR/WHO

09:25- 09:50: Lecture / Conferencia

DENGUE VACCINE, OVERVIEW

Jean Lang. Aventis Pasteur

09:50- 10:15 : Lecture / Conferencia

DENGUE VACCINE DEVELOPMENT, CUBAN STUDIES

MG Guzman, G Guillen, R Rodriguez, L Hermida, S Vazquez, M Alvarez,
M Pupo.

IPK, Centro Ingenieria Genetica y Biotecnologia, Cuba

10:15-10:40 : Lecture / Conferencia

DENGUE TETRAVALENT, SUBUNIT VACCINE.

T Humphreys, D Clements, S Ogata, M Lieberman, J Leung, C Weeks-
Levy.

Hawaii Biotechnology

10:40-11:05: Lecture / Conferencia

COST-EFFECTIVENESS OF A POTENTIAL DENGUE VACCINE IN SOUTHEAST

ASIA

DS Shepard, JA Suaya. Schneider Institute for Health Policy, Heller
School, USA

11:05-11:15: DISCUSSION / DISCUSIÓN

Oral presentations / Presentaciones orales

11:15-11:30: INDUCTION OF PROTECTIVE ANTIBODIES AGAINST DENGUE VIRUS BY

TETRAVALENT DNA IMMUNIZATION WITH DOMAIN III OF ENVELOPE PROTEIN

J Mota, M Acosta, R Agrote, A Mendez, R Figueroa, C Ramos
Instituto Nacional de Salud Pública, México

11:30-11:45: IMMUNOGENICITY OF DENGUE VIRUS TYPE 2 DNA VACCINES EXPRESSING

FULL LENGTH ENVELOPE PROTEIN AND NS3 PROTEIN

M Mune, RV Warke, V Melanson, L Brizuela, Y Soto, M Alvarez, MG
Guzman, I
Bosch. IPK, Universidad Mass, Cuba

11:45-12:00: TETRAVALENT DENGUE VACCINE DEVELOPMENT BY DNA SHUFFLING

D Apt, S Yang, G Dawes, C Skinner, J Punnonen. Maxygen, Inc. USA

12:00-12:15: IMMUNOLOGICAL EVALUATION IN MICE IMMUNIZED WITH SYNTHETIC

PEPTIDES OF DENGUE PRM PROTEIN.

S Vazquez, AB Perez, G China, M Pupo, R Rodriguez Roche, O Reyes,
G Guillen,
MG Guzman. IPK, Centro de Ingeniería Genética y Biotecnología, Cuba

12:15-12:30: DISCUSSION / DISCUSIÓN

12:30-12:45: COMPARISON BETWEEN THE INSERTION AND FUSION VARIANTS OF THE RECOMBINANT PROTEINS BY P64K AND THE DOMAIN III FROM DEN-1 AND DEN-2.

L Hermida, R Rodriguez, L Lazo, J Martin, A Zulueta, L Bernardo, MG
Guzman,
G Guillen. Centro Ingeniería Genética y Biotecnología, IPK, Cuba

12:45-13:00: A RECOMBINANT FUSION PROTEIN EXPRESSED IN *ESCHERICHIA*

***COLI* THAT INCLUDES DOMAIN III OF THE DENGUE TYPE 2 VIRAL ENVELOPE PROTEIN IS IMMUNOGENIC AND PROTECTIVE IN NONHUMAN PRIMATES**

R Rodriguez, L Hermida, L Bernardo, J Martin, M Alvarez, I Prado, G
Guillen, MG
Guzman. IPK, Centro de Ingeniería Genética y Biotecnología, Cuba

13:00-13:15: AMINOACIDIC CHANGES IN THE RECOMBINANT DENGUE 3 ENVELOPE DOMAIN III THAT INCREASES THE IMMUNOGENICITY IN MICE

A Zulueta, R Rodriguez, J Martin, L Hermida, M Alvarez, I Valdes, I
Prado, G
China. Centro Ingeniería Genética y Biotecnología, IPK, Cuba

13:15-13:30: IDENTIFICACIÓN OF DENGUE VIRUSES-EPITOPES BY MEANS OF THE FILAMENTOUS PHAGE DISPLAY. PRELIMINARY RESULTS.
E Perez, F Daphnis, N Amin, A Aguilar, F Camacho, R Martinez, D Stott
Instituto Finlay, Cuba

CONFERENCE ROOM 5/SALA 5

SYMPOSIUM: YELLOW FEVER AND OTHER ARBOVIRUSES/ FIEBRE AMARILLA Y OTROS ARBOVIRUS

**Co-Chairs / Co-Presidente: Dr Harvey Artsob, PhD. Canada
Dr Maritza Pupo, PhD. Cuba**

Oral Presentation / Presentaciones orales

- 09:00 – 09:20: FLAVIVIRUSES, HERE THERE AND EVERYWHERE**
E Gould. Center for Ecology and Hydrology. Institute of Virology and Environmental Microbiology. Oxford. UK
- 09:20 – 09:40: ARBOVIRUS ACTIVITY IN CANADA**
H Arstob, R Lindsay, P Buck, P Sockett and M Drebot. National Laboratory. Health Canada. Canada.
- 9:40 - 10:00: YELLOW FEVER SITUATION IN THE AMERICAS**
H Schatzmayr. Institute Oswaldo Cruz. Rio de Janeiro. Brazil
- 10:20 - 11:40: WEST NILE VIRUS CUBAN SURVEILLANCE, 2002-2003**
M Pupo. IPK. MG Guzman, S Cabezas, O Fuentes, H Gonzalez, R Fernandez, G Kouri, R Cruz and G Estevez. Cuba
- 11:00 - 11:10: DISCUSSION / DISCUSIÓN**
- 11:10 - 11:25: EPIDEMIOLOGY OF WNV IN NORTHERN MEXICO IN 2003 YEAR.**
I Fernandez-Salas, J Francisco-Contreras, JI Gonzalez. Medical Entomology Lab. FCB-UANL. Monterrey, NL, México; B Blitvich and Beaty. Mexico
- 11: 25 – 11:30: EVALUATION OF HUMORAL RESPONSE IN YELLOW FEVER VACCINATED INDIVIDUALS BY ENZYME-LINKED IMMUNOSORBENT ASSAYS.**
O Valdes, National Center of Epizootiology, Diagnostic and Researches.
S Vazquez, M Pupo, I Delgado, M Alvarez, JL Pelegrino, MG Guzman.
Cuba
- 11:30 – 11:45: EXPLORING SPATIAL DISTRIBUTION OF YELLOW FEVER VACCINE COVERAGE IN CITIES OF BRAZIL BETWEEN 1997 AND 2003.**
K de Oliveira, WM Ramalho, JE de Moura Jr, Z Guerra Antunes, M de Lourdes S. Maia, E Hage Carmo, M Gaudino Almeida, VL Carvalho Silva. Health Ministry. Brazil

12:00 - 12:15: PRELIMINARY RESULTS OBTAINED DURING STANDARDIZATION OF DIFFERENT PRINCIPLE TESTS FOR THE DETECTION OF ANTI-YELLOW FEVER IGM ANTIBODIES.

A Palenzuela, J Boshe, I Valdivia and A Heredia. Immunoassay Center. Cuba

12:30 – 12:45: SITUACIÓN DE LA FIEBRE AMARILLA (FA) EN VENEZUELA, AÑOS 2002-2003.

LY Núñez Escobar and JM Garcia Rojas. Health and Social Development Ministry. Venezuela

CONFERENCE ROOM 11 / SALA 11

SYMPOSIUM: *AE. AEGYPTI* PUPAL SURVEILLANCE / VIGILANCIA PUPAL DE *A. AEGYPTI*

09:00 - 10:30: Round table discussion: Analysis of pupal productivity in varying environments

10:30 – 12:00 Analysis of factors influencing dengue dynamics with a view towards developing an

early warning control strategy and Round table discussion: Pupal surveillance and

the risk of dengue transmission

DA Focks, ID- Analysis, USA