



# 16<sup>th</sup> International Course on Dengue, Zika and other Emergent Arboviruses

12 - 23 August 2019

Institute of Tropical Medicine "Pedro Kouri", Havana, Cuba

## First Announcement

Under the auspices of:

**Institute of Tropical Medicine "Pedro Kouri" (IPK)**  
**Cuban Society of Microbiology and Parasitology (SCMP)**  
**Cuban Ministry of Public Health (MINSAP)**  
**Pan American Health Organization/ World Health Organization (PAHO/WHO)**  
**Labiofam**  
**Fundación Mundo Sano**  
**Institute of Tropical Medicine, Amberes, Belgium**  
**Zikalliance**  
**Zikaplan**  
**Neglected Tropical Disease Program, WHO**

*Aedes aegypti* and *Aedes albopictus* geographical expansion preceded dengue emergence due to the impact of increasing urbanization of the human population and climatic, social and environmental changes. These conditions not only favored dengue expansion but also the emergence of chikungunya and Zika, as well as the re-emergence of yellow fever. The co-circulation of these arboviruses poses new challenges to global public health.

The PAHO/WHO Collaborating Center for the Study of Dengue and its Control of the Institute of Tropical Medicine "Pedro Kouri"/MINSAP, the Cuban Society of Microbiology and Parasitology, the Cuban Ministry of Public Health and PAHO/WHO announce the 16th International Course on Dengue, Zika and Other Emergent Arboviruses to be held on 12 – 23 August 2019. This activity is organized in the framework of the 500th Anniversary of the "Villa San Cristobal de la Habana".

During the two-week course, the regional and global epidemiological situation of important arboviruses will be updated. A prestigious faculty of professors from across the globe will present sessions and discussions on clinical management; vector control; scientific advances in pathogenesis, vaccines and antiviral development; new vector control tools; the influence of host genetics as well as the genetics of the vector and the viruses; emergency control; new international initiatives for arbovirus control and prevention; among other interesting and important topics.

## OBJECTIVE

That medical doctors, virologists, immunologists, social scientists, epidemiologists and entomologists, among others, receive the latest scientific information and have an opportunity to discuss relevant topics on dengue, Zika, chikungunya, and the situation of arboviruses in general.

## TOPICS

The following topics will be covered through lectures, roundtable discussions, seminars, topic-specific symposia, and practical activities:

- Global situation: Dengue, Zika, Chikungunya and Yellow fever
- Situation in the Region of the Americas: Dengue, Zika, Chikungunya and Yellow fever - Where are we today?
- Current and future challenges: International initiatives
- Integrated Management Strategy for Arboviral Diseases
- Integrated surveillance
- Integrated Vector Management
- Clinical picture and pathology. Case definitions. Differential diagnosis. Clinical management
- Genome and viral structure. Replication and viral evolution (flavivirus, alphavirus)
- Zika in pregnant woman
- Zika sexual transmission
- Neurological disorders associated with dengue, Zika and chikungunya
- Chronic chikungunya: What do we know?
- Serological and molecular diagnostics. Challenges of laboratory surveillance for arboviruses
- Immune response
- Host genetic factors and dengue and Zika severity
- Pathogenesis. Role of immune-enhancement in dengue and Zika
- Flavivirus NS1 protein
- Vaccine and antiviral advances
- *Aedes aegypti* ecology. Vector competence
- Vector dynamics in arbovirus transmission
- Chemical and biological methods for vector control
- New tools and strategies for vector control
- Sterile insect technique: Experiences in the Region of the Americas
- Mechanisms of insecticide resistance
- Virus-mosquito interaction
- Social and community aspects of arbovirus transmission and control
- Mathematical models for transmission of dengue and other arboviruses study. Prediction models
- Ecobiosocial approach for arbovirus control and prevention
- Role of the community in vector control
- Health economics and control of *Aedes aegypti* transmitted diseases
- Planning for emergency situations
- Climate change and transmission of arboviruses
- Research priorities

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## CONFIRMED PROFESSORS

**Kevin Arien**, Institute of Tropical Medicine, Belgium  
**Mathieu Bangert**, NTDP, WHO  
**Mabel Carabali**, McGill University, Canada  
**Lee Ching**, NEA, Singapore  
**Giovanini Coelho**, PAHOWHO  
**Ana Durbin**, Johns Hopkins University Bloomberg School of Public Health, USA  
**Manuel Espinosa**, Fundación Mundo Sano, Argentina  
**Leticia Franco**, PAHOWHO  
**Eva Harris**, Universidad de Berkeley, EUA  
**Thomas Jaenish**, Heidelberg University, Germany  
**Xavier de Lamballerie**, Aix-Marseille University, France  
**Linda S. Lloyd**, USA  
**Felipe Lorenzato**, Takeda  
**Kleber Luz**, Universidad Federal Rio Grande Du Norte, Brazil  
**Jairo Méndez**, PAHOWHO  
**Jorge L. Muñoz-Jordán**, CDC, Puerto Rico  
**Jorge Osorio**, University of Wisconsin, USA  
**Christopher Oxenford**, WHO  
**Carlos Pardo**, Johns Hopkins University School of Medicine, USA  
**Ernesto Pleites**, National Children's Hospital "Benjamín Bloom", El Salvador  
**Amadou Alpha Sall**, Pasteur Institute, Senegal  
**Aravinda de Silva**, University of North Carolina, USA  
**Fabrice Simon**, Laveran Military Teaching Hospital, France  
**Patrick Van der Stuyft**, Gent University, Belgium  
**Veerle Vanlerbergue**, Institute of Tropical Medicine, Belgium  
**Gonzalo M. Vazquez-Prokopec**, Emory University, USA  
**Anubis Vega**, Pasteur Institute, Guadeloupe  
**Raman Velayudhan**, NTDP-WHO  
**Scott Weaver**, University of Texas Medical Branch, USA  
**Annelies Wilder-Smith**, Umeå University, Sweden  
**Steve Whitehead**, NIAID, NIH, USA

## CONFIRMED CUBAN PROFESSORS

**María G. Guzmán, Eric Martínez, María E. Toledo, Juan Bisset, Susana Vázquez, Virginia Capó, Mayling Alvarez, Ana B. Pérez, Beatriz Sierra, Pedro Ariel Martínez, Rosa Ramírez, Didye Ruiz, Daniel González, Omar Fuentes, Magdalena Rodríguez, Alberto Baly, Maria del C. Marquetti, Dennis Pérez, Martha Castro, Osvaldo Castro, José L. Pelegrino, Pedro Más, Domingo Montada, Francisco Duran, Carilda Peña, Maritza Pupo, Lázaro Gil, Alicia Reyes**, among other prestigious professors and collaborators from IPK, the Center for Genetic Engineering and Biotechnology (CIGB), the University of Havana and the Ministry of Public Health.

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## ORGANIZATION OF THE COURSE

- The Course is structured in a theoretical section (Week 1, 12 - 16 August) and a practical section (Week 2, 19 – 23 August).
- The theoretical section includes general lectures, roundtable discussions and topic-specific symposia.
- During the practical section, participants will select one of five groups according to their interests: clinical care, entomology and vector control, virology/immunology, epidemiology, and community participation.
- **Poster session:** Participants will have the opportunity to present their projects in a poster session during Week 1. Poster characteristics: 94cm wide X 140cm high (vertical position). Deadline for abstract submission: July 1, 2019. **For further information contact Dr. Martha Castro, [martac@ipk.sld.cu](mailto:martac@ipk.sld.cu)**
- **Concurrent sessions:** It is expected that several meetings and mini-sessions will be organized within the framework of the Course.

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## OFFICIAL LANGUAGES

- The official languages of the **Course:** Spanish and English. Translation in both languages will be available during the theoretical section (Week 1).

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## REGISTRATION: Theoretical and Practical Sections = \$ 800.00 CUC

- Includes registration for both the theoretical and practical sections (Weeks 1 and 2), course materials, welcome cocktail and farewell dinner.
- Participants may attend either the theoretical or the practical section, or both sections.
- Registration fee for the theoretical section only (Week 1): 12 - 16 August 2019 = \$ 500.00CUC  
Registration fee for the practical section only (Week 2): 19 - 23 August 2019 = \$ 400.00 CUC
- Those interested should submit the registration form to [lupe@ipk.sld.cu](mailto:lupe@ipk.sld.cu)

Download Registration form: <http://instituciones.sld.cu/ipk/files/2018/08/Registro-de-Participantes-English.pdf>

**Registration deadline: 20 July 2019**

For further information please contact:

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