

ICGEB

Meetings and Courses 2022

7-11
November

**Emerging infectious diseases:
biology, prevention and treatment**

São Paulo, BRAZIL

In collaboration with:



SCIENTIFIC PROGRAM

Monday, November 7

9:00-12:00h **Registration**

14:00-15:30h **Open Ceremony**

Dimas Tadeu Covas – Instituto Butantan

Carlos Gilberto Carlotti Jr. – University of São Paulo

Lawrence Banks – ICGEB

Marco Antonio Zago - Fapesp

David Uip – Secretary of Science, Research and Development in Health Government of São Paulo

Marcelo Morales –Secretary of Research and Scientific Training, Ministry of Technology, Science and Innovation (MCTI)

15:30-16:00h **Coffee-break**

16:00-17:30h **Keynote Lecture**

Role of the MCTI (Ministry of Science, Technology and Innovations) for infectious diseases and post-Covid-19 strategies

Speaker: Marcelo Morales - MCTI

How financial agency can contribute for the relation: big pharma vs academy

Speaker: Marco Antonio Zago - Fapesp

17:30-19:00h **Welcome Cocktail**

Tuesday, November 8

8:40-9:00h

Epidemiology Session

CDC's operations and perspectives in Latin America

Speaker: Juliette Morgan, CDC Latin America

Global perspectives for surveillance and control of arboviruses

Speaker: Carlos Frederico C. Albuquerque e Melo, PAHO

Viruses related to cancer in humans

Speaker: Luisa Villa, FMUSP - USP

Economic evaluation of vaccination programs

Speaker: Ana Marli Sartori, FMUSP - USP

10:30-11:00h

Coffee-break

11:00-12:30h

Therapeutics Session

Neutralizing mAbs for the treatment of infectious diseases

Speaker: Ana Maria Moro, Instituto Butantan

Antibody-based therapies for infections by HIV

Speaker: Michael Nussenzweig, The Rockefeller University

The role of equine antitoxins and anti-rabies immunoglobulin in the context of public health.

Speaker: Fan Hui Wen, Instituto Butantan

Llama-derived nanobodies to detect and control viral diseases: A promising future

Speaker: Viviana Parreño, INTA – Argentina

12:30-14:00h

Lunch

14:00-15:30

“OMICS”

Network Medicine of Infectious Diseases

Speaker: Helder Nakaya, FCF – USP

Plasma metagenomics for identification of emerging viruses

Speaker: Svetoslav N. Slavov, FMRP - USP

Genomic monitoring of zika, chikungunya, dengue and yellow fever viruses and early detection of potential emerging viruses in Brazil

Speaker: Luiz Alcântara, Fiocruz

Identification of vaccine candidates for schistosomiasis mansoni based on self-healing in rhesus macaques

Speaker: Sergio Verjovski-Almeida, Instituto Butantan

15:30-16:00h

Coffee-break

16:00-17:30h

Vaccines

Importance of vaccination against *Pertussis* for individuals with Chronic Obstructive Pulmonary Disease (COPD): new evidence

Speaker: Emersom Mesquita, GSK

Plasmodium vivax malaria vaccine development

Speaker: Irene Soares, FCF – USP

Leptospirosis: pathogenesis and prevention

Speaker: Ana Lúcia Nascimento, Instituto Butantan

17:30-19:00

Poster session

Wednesday, November 9

8:30-9:00h *Q&A session*

9:00-9:30h *Covid-19: epidemiology & genomic surveillance*

Leveraging technology and collaboration to improve laboratory capacity globally

Speaker: Leonard Peruski, CDC – Atlanta

One Health International Network for SARS-CoV-2 real-time genomic monitoring

Speaker: Marta Giovanetti, Fiocruz

Real-time specific actions contributing to the public health in São Paulo State

Speaker: Maria Carolina Sabbaga, Instituto Butantan

Speaker:

10:30-11:00h *Coffee-break*

11:00-12:30h *Covid-19: vaccines*

Cellular immune responses following SARS-CoV-2 vaccination

Speaker: Esper Kallás, FMUSP – USP

Vaccine-induced neutralizing antibody responses to the SARS-CoV-2 variants

Speaker: Julio Croda, Fiocruz

Speaker:

NDV vaccine against SARS-CoV-2

Speaker: Florian Krammer, Icahn School of Medicine at Mount Sinai

12:30-14:00h *Lunch*

14:00-15:30 *Covid-19: treatments*

Anti-Covid-19 serum

Speaker: Ana Marisa Chudzinski Tavassi, Instituto Butantan

High-throughput screening to identify FDA-approved compounds that target inflammasome activation and SARS-CoV-2 replication

Speaker: Dario Simões Zamboni, FMRP - USP

Speaker:

Speaker:

15:30-16:00h *Coffee-break*

16:00-17:30h *Roundtable: implementation science*

Luisa Villa, FMUSP – USP

Sandra Coccuzzo, Instituto Butantan

Rodrigo Calado, FMRP – USP

17:30-19:00 *Poster session*

Thursday, November 10

8:30-9:00h

Q&A session

9:00-10:30h

Molecular & Immunology Insights

Cellular and molecular mechanisms involved in the pathogenesis of microcephaly caused by Zika virus **Speaker: Jean Pierre Peron, ICB – USP**

Human Papillomaviruses: From Infectious Entry to Malignancy

Speaker: Lawrence Banks, ICGEB

The inflammasome in the response against intracellular pathogens and the microbial mechanisms related to evasion

Speaker: Dario Simões Zamboni, FMRP – USP

Host-pathogen interaction in case of Mycobacterium tuberculosis infection, innate immunity response and inflammation

Speaker: Dhiraj Kumar, ICGEB – India

10:30-11:00h

Coffee-break

11:00-12:30h

Molecular & Immunology Insights

Molecular and cell biology of virus-host interactions

Speaker: Alessandro Marcello, ICGEB – Italy

The importance of diagnosis post-vaccination

Speaker: Dan Lee, Osang HealthCare

Virulence factors and pathogenicity mechanisms of Escherichia coli causing intestinal and extraintestinal infections

Speaker: Waldir Pereira Elias Jr., Instituto Butantan

Life cycles "great and small" - their pivotal role in understand the protozoa

Speaker: Jeffrey Shaw, ICB – USP

12:30-14:00h

Lunch

14:00-15:30

"OMICS"

Nucleocapsid monoclonal antibody proved to be a strategic tool for SARS-CoV-2 diagnosis

Speaker: Roxane Piazza, Instituto Butantan

Speaker:

Population genomics studies of *Plasmodium vivax*

Speaker: Marcelo Urbano Ferreira, ICB – USP

Chikungunya virus molecular evolution in India since its re-emergence in 2005

Speaker: Sujatha Sunil, ICGEB - India

15:30-16:00h

Coffee-break

16:00-17:30h

Vaccines

mRNA as the basis for novel, nucleotide-based vaccines and drugs

Speaker: Florian Krammer, Icahn School of Medicine at Mount Sinai

The use of shotgun phage display to uncover potential adhesins and antigens for vaccine and diagnostic in leptospirosis

Speaker: Paulo Lee Ho, Instituto Butantan

Development of tuberculosis vaccines based on recombinant BCG

Speaker: Luciana Leite, Instituto Butantan

Development and production of new pneumococcal vaccines based on recombinant proteins

Speaker: Viviane Gonçalves, Instituto Butantan

17:30-19:00

Poster session

Friday, November 11

8:30-9:00h *Opening remarks*

9:00-10:00h *Final session*

How to transform scientific research into products for the market?

Speaker: Janayna Bhering, FUNDEP

Human Papillomaviruses: From Infectious Entry to Malignancy

Speaker: Lawrence Banks, ICGEB

The inflammasome in the response against intracellular pathogens and the microbial mechanisms related to evasion

Speaker: Dario Simões Zamboni, FMRP – USP

Stitching the host cellular responses by *Mycobacterium tuberculosis*

Speaker: Dhiraj Kumar, ICGEB – India

10:30-11:00h *Closing session*