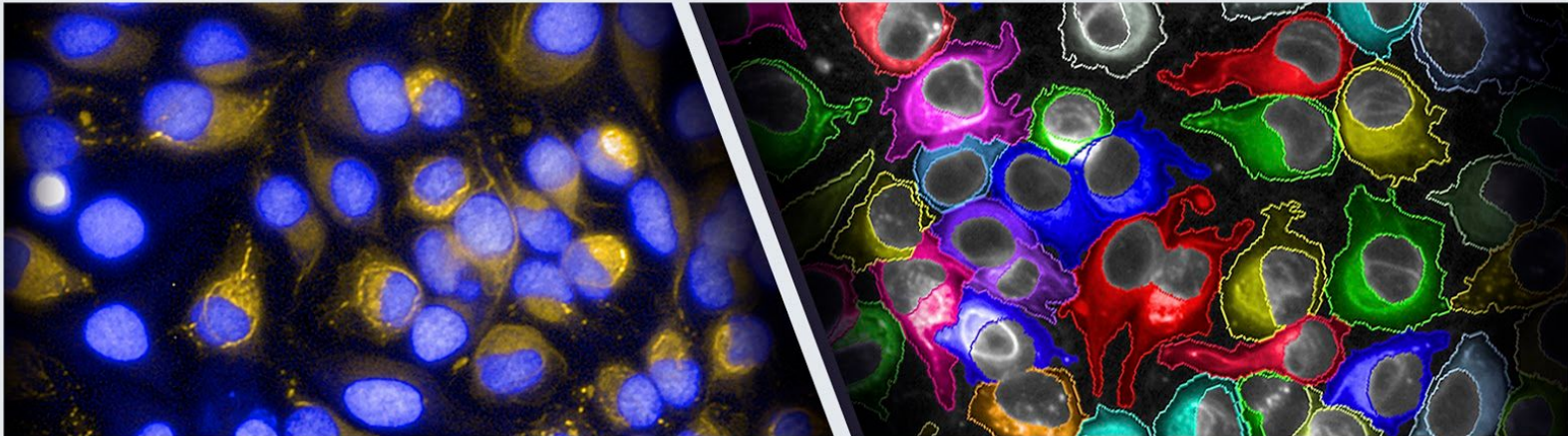


# Workshop: Tools and Platforms for Phenotypic Drug Discovery



## Phenotypic Screening Platform

Institute of Biomedical Sciences – University of São Paulo

São Paulo, Brazil

**Dates:** 26 - 27 June 2018

**Registration:** <http://goo.gl/wM1mCA>

**Organizing Committee:** Dr. Lucio Freitas, Dr. Carolina B. Moraes and Prof. Gabriel Padilla

**Event goal:** *to introduce and discuss with the scientific community basic principles and current trends in drug discovery, with a goal to enrich academic projects that use a phenotypic strategy. Graduate students, researchers and professors are expected to attend (approximately 100 – 120 people).*



# 26 JUNE

## Principles and Models for Phenotypic Drug Discovery

Venue: Institute for Advanced Studies (IEA) Auditorium

Rua Praça do Relógio, 109 – Campus Cidade Universitária - São Paulo - SP

08:00 – 17:00

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**08:00 Registration**

**08:40 Opening**

Luiz Henrique Catalani

INOVA USP

**08:50 Introduction**

Lucio Freitas Junior

Coordinator, Phenotypic Screening Platform – ICB-USP

**09:00 The Path to a Candidate – a collaborative and multidisciplinary effort**

Eric Chatelain

Head of Drug Discovery – DNDi, Switzerland

**09:30 Phenotypic screening in drug discovery and target validation**

Carolina B. Moraes

Principal Investigator, Phenotypic Screening Platform – ICB-USP

**10:00 Multiparametric leads selection and optimization**

Gilles Courtemanche

Director, Antimicrobials Program – Bioaster, France

**10:30 Role of in vivo models in R&D**

Eric Chatelain

Head of Drug Discovery – DNDi, Switzerland

**11:00 Coffee Break**

**11:20 Genetic validation of drug targets in trypanosomes**

Sergio Schenkman

Professor – DMIP, Federal University of Sao Paulo, Brazil

**11:50 Metabolomic MoA clustering, a new tool for novelty assessment**

Gilles Courtemanche

Director, Antimicrobials Program – Bioaster, France

**12:20 Lunch**

**13:30 CRISPR technology from immunomodulation to bacterial screening**

Musa Mhlanga

Professor – University of Cape Town, South Africa

**14:00 Super resolution applied to viral-host interactions**

Aurelie Deroubaix

Head of Imaging Facility – University of the Witwatersrand, South Africa

**14:30 Applied epidemiology and the emergence of flaviviruses**

Paolo Zanotto

Professor – ICB-USP

**15:00 Systems biology for drug discovery**

Helder Nakaya

Professor – FCF-USP

**15:30 Coffee break**

**15:50 3D modeling of neurological disease**

Patricia Beltrão Braga

Professor – ICB-USP

**16:20 Personalized medicine**

Musa Mhlanga

Professor -University of Cape Town, South Africa

**16:50 Final remarks**

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## **27 June**

### **Assay and Molecule Design**

Venue: CEFAP Auditorium

Institute of Biomedical Sciences

Avenida Professor Lineu Prestes, 1730 – Campus Cidade Universitária, São Paulo-SP

09:00 – 12:30

Limited number of attendees: 40 graduate students (Master, PhD and Postdocs)

**09:00 A practical approach to drug screening: HCS, HTS, assay miniaturization, validation and automation**

Carolina B. Moraes

Principal Investigator, Phenotypic Screening Platform - ICB-USP, Brazil

**09:30 Sample preparation, imaging techniques and customized image analysis**

Aurelie Deroubaix

Head of Imaging Facility – University of the Witwatersrand, South Africa

**10:00 Think Medicinal Chemistry I – library and compound design**

Gilles Courtemanche

Director, Antimicrobial Program – Bioaster, France

**10:30 Coffee break**

**11:00 Think Medicinal Chemistry II – in vitro and in vivo DMPK**

Eric Chatelain

Head of Drug Discovery – DNDi, Switzerland

**11:30 CRISPR strategies and practical approaches to genome editing**

Musa Mhlanga

Professor – University of Cape Town, South Africa

**12:00 Precision Oncology**

Musa Mhlanga

Professor – University of Cape Town, South Africa

Organization

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