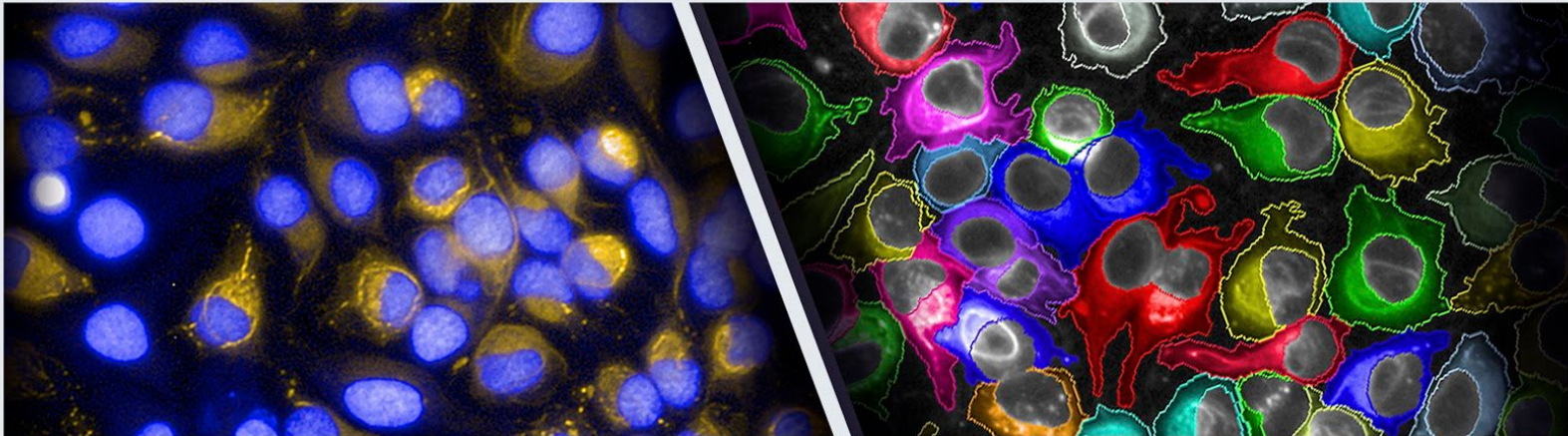


Workshop: Tools and Platforms for Phenotypic Drug Discovery



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

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

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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