PRINCIPLES AND PRACTICE IN DRUG DEVELOPMENT

CNC Advanced Courses 2021

Doctoral Program in Experimental Biology and Biomedicine (PDBEB)

May 17 - 28, 2021

Coordinators:
João Nuno Moreira, Luis Pereira de Almeida, Sérgio Simões, Stan Finkelstein

PROGRAM

MONDAY | MAY 17

10.30 h - Introduction to the course
João Nuno Moreira - PhD
(CNC and Faculty of Pharmacy, University of Coimbra)
Luís Pereira de Almeida - PhD
(CNC and Faculty of Pharmacy, University of Coimbra)
Sérgio Simões - PhD
(CNC and Faculty of Pharmacy, University of Coimbra)
Stan N. Finkelstein - MD, PhD
(Senior Research Assistant in the MIT Engineering Systems Division and Associate Professor of Medicine at Harvard Medical School)

16.00 h - Re-Engineering the Drug Business
Robert Mulroy -
(Chairman and CEO of Partners Therapeutics, Inc)

TUESDAY | MAY 18

10.30 h - Translational cancer nanomedicine: from a FCT-funded project to drug development
João Nuno Moreira - PhD
(CNC and Faculty of Pharmacy, University of Coimbra)

15.00 h - Evolving economics of the pharmaceutical industry
Stan N. Finkelstein - MD, PhD
(Senior Research Scientist in the MIT Engineering Systems Division and Associate Professor of Medicine, Harvard Medical School)

WEDNESDAY | MAY 19

10.00 h - Modeling chemistry and biology in drug discovery
Marco Neves - PhD
(BIAL, Indústria Farmacêutica, Portugal)

11.30 h - Development of small molecule inhibitors for treatment of CNS disorders
Laszlo Kiss - PhD
(BIAL, Indústria Farmacêutica, Portugal)

THURSDAY | MAY 20

10.00 h - Some issues in drug development: discussion of case studies
Miguel Prazeres - PhD
(Instituto Superior Técnico, Technical University of Lisbon)

15.00 h - FDA Process, Off-Label Prescribing, Insurance Coverage
Stan N. Finkelstein - MD, PhD
(Senior Research Assistant in the MIT Engineering Systems Division and Associate Professor of Medicine at Harvard Medical School)

FRIDAY | MAY 21

9.00 h - Bluepharma Pharmaceutical Industry SA: from development of generics to innovative research: virtual visit
Sérgio Simões - PhD

14.00 h - New non-viral options for therapeutic delivery
Koen Breyne - PhD
(Department of Neurology, Massachusetts General Hospital, Harvard Medical School)
# Principles and Practice in Drug Development

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## Program

**Monday | May 24**

- 10.00 h - Gene and Cell therapy Medicinal Products
  - Luís Pereira de Almeida - PhD (CNC)
  - Rui Nobre - PhD (CNC)
  - Liliana Mendonça - PhD (CNC)
  - Magda Santana - PhD (CNC)

- 16.00 h - The Quest for Better Treatments: Drug Development and Regulatory Challenges
  - Bruno Sepodes - PhD
  (Universidade de Lisboa (Portugal) / European Medicines Agency (EMA))

- 18.00 h - Global regulation and reliance: from medicinal products to integrated health technologies
  - Rogério Gaspar – PhD
  (Director, Department of Regulation and Prequalification, WHO, Geneva)

**Tuesday | May 25**

- 10.00 h - Molecular Imaging and Drug Development
  - Antero Abrunhosa - PhD
  (Instituto de Ciências Nucleares Aplicadas à Saúde - ICNAS)

- 16.00 h - Translational insights into clinical trials: application of molecular and cellular data to understand efficacy in patient segments
  - Daniel Lopes de Menezes - BPharm, MScPharm, PhD
  (Associate Director, Late-Stage Translational Development, Celgene)

**Wednesday | May 26**

- 16.00 h - Drug Discovery and Development at PTC Therapeutics: Small Molecules to Gene Therapy
  - Amal Dakka - PhD
  (Director External Innovations & Alliance Management at PTC Therapeutics, Inc.)

**Thursday | May 27**

- 10.00 h - Dry Powder Inhalation Solutions.
  - Claudia Moura - PhD
  (Senior Scientist, Oral Process Development Group, Hovione)

**Friday | May 28**

- 09.30 h - Students presentations