MIT-PT PROGRAMME 2013/2014

PRINCIPLES AND PRACTICE IN DRUG DEVELOPMENT | ELECTIVE COURSE

Center for Neuroscience and Cell Biology (CNC) | University of Coimbra

March 31-April 10, 2014

João Nuno Moreira, Luís Pereira de Almeida, Sérgio Simões, Stan Finkelstein

Local: CNC auditorium (Polo I)

March 31 - Monday

10.00 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)

11.00 h - The Pharmaceutical Industry and the Drug Development Process
Stan N. Finkelstein | MD, PhD (Senior Research Scientist in the MIT Engineering Systems Division and Associate Professor of Medicine, Harvard Medical School)

14.00 h - Building predictive oncology models
Darrin Stuart | PhD
Senior Investigator II
Novartis Institutes for Biomedical Research (USA)

16.00 h - Basic Science I – Discovery Innovation and Emerging Technologies; Basic Business
Anthony J. Sinskey | PhD (Professor of Biology at MIT)

April 1 - Tuesday

10.00 h - Modeling chemistry and biology in drug discovery
Nuno Palma | PhD (BIAL, Indústria Farmacêutica, Portugal)

11.30 h - Clinical development of new chemical entities
José Francisco | BSc (BIAL, Indústria Farmacêutica, Portugal)

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

16.00 h - Pharmacology and toxicology of new chemical entities
Lyndon C. Wright | PhD (BIAL, Indústria Farmacêutica, Portugal)

April 2 - Wednesday

9.00 h – The Drug discovery path
Peter Andersen | PhD (Lundebeck, Vice President)

14.00 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)
April 3 - Thursday
10.00 h - Regulatory Affairs – the european perspective
Rogério Gaspar | PhD (iMed.UL and Faculty of Pharmacy, University of Lisbon)

16.00 h - Technology transfer – the perspective from MIT
Tom Tachovsky | Licensing officer at the MIT TLO

April 4 – Friday
10.00 h - The Pharmaceutical Industry in the 21st century
Filipe Vicente | General Manager R&D of Hovione

11.15 h - Manufacturing and quality by design in the pharmaceutical industry
Rui Loureiro | PhD (Chemist - Hovione)

14.00 h - Photodynamic therapy in oncology
Luís Arnaut | PhD (CSO of Luzitin, SA)

16.00 h - Building Merrimack Therapeutics
Robert Mulroy | CEO of Merrimack Therapeutics

April 7 - Monday
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 - Visit to Biocant Park – Innovation Center in Biotechnology

April 8 - Tuesday
9.30 h - Bluepharma Pharmaceutical Industry SA: from development of generics to innovative research - site visit

16.00 h - Nanotechnology for drug and gene targeting and the impact on drug development
João Nuno Moreira | PhD

April 9 - Wednesday
9.30 h - Nanotechnology for drug and gene targeting and the impact on drug development (cont.)
Sérgio Simões | PhD
Luís Pereira de Almeida | PhD

16.00 h - Economic and policy issues for pharmaceutical
Stan N. Finkelstein | MD, PhD (Senior Research Scientist in the MIT Engineering Systems Division and Associate Professor of Medicine, Harvard Medical School)
Kenneth Oye | PhD (Associate Professor of Political Science and Engineering Systems)

April 10 – Thursday
9 h - Students’ presentations