

First webinar on Medicinal Chemistry

DESIGNING TOMORROW'S THERAPEUTICS

“Medicinal chemistry is a chemistry-based discipline, also involving aspects of biological, medical and pharmaceutical sciences. It is concerned with the invention, discovery, design, identification and preparation of biologically active compounds, the study of their metabolism, the interpretation of their mode of action at the molecular level and the construction of structure-activity relationships.”

(IUPAC definition)

It is our greatest pleasure to welcome you to the **First webinar on Medicinal Chemistry** organized within the framework of the Medicinal Chemistry curricular unit.

The First webinar on Medicinal Chemistry aims to bring together renowned researchers from academy and industry that will exchange and share their experiences on aspects of Drug Discovery and Development. Based on real-world experience and practical realities, attendees will travel step-by step along the typical path of the multidisciplinary nature of medicinal chemistry.

Registration : <https://forms.gle/PvSt653rV6sLqpqZ9>

REGISTRATION IS FREE OF CHARGE BUT COMPULSORY

We thank all the Speakers, Participants and Students who will attend to this webinar.

Coordinators

Prof. Dr. Fernanda Borges (fborges@fc.up.pt)

Dr. Sofia Benfeito (ester.benfeito@fc.up.pt)

Dr. Daniel Chavarria (daniel.chavarria@fc.up.pt)

Dr. Pedro Soares (pedro.soares@fc.up.pt)

<https://drugdiscoveryup.pt/>



First webinar on Medicinal Chemistry

DESIGNING TOMORROW'S THERAPEUTICS

Program

Day #1 – May 7, 2021

The quest for new targets for drug discovery and development

- 14:30 – 14:35 **Welcome and Introduction**
Fernanda Borges
Moderator | Daniel Chavarria
(Faculty of Sciences, University of Porto, Portugal)
- 14:35 – 15:10 **Mitochondria as a Target in Drug Development**
Paulo Oliveira
(CNC - Center for Neuroscience and Cell Biology, University of Coimbra, Portugal)
- 15:10 – 15:45 **Mechanisms of biofilm formation and resistance - avenues for drug discovery**
Manuel Simões
(Faculty of Engineering, University of Porto, Portugal)
- 15:45 – 16:20 **Integrating Bioinformatics and Computational Chemistry in the search for Inhibitors of Bacterial Biofilm Formation**
Sérgio Sousa
(UCIBIO@REQUIMTE - BioSIM, Faculty of Medicine University of Porto, Portugal)
- 16:20 – 16:35 **Questions**

Day #2 – May 14, 2021

The long road between target validation and drug development

- 14:30 – 14:35 **Welcome and Introduction**
Moderator | Pedro Soares
(Faculty of Sciences, University of Porto, Portugal)
- 14:35 – 15:10 **Best practice in biochemical and cell-based assay development**
Sheraz Gul
(Fraunhofer IME, Germany)

- 15:10 – 15:45 **Role of ADMET in drug discovery**
Sheraz Gul
(Fraunhofer IME, Germany)
- 15:45 – 16:20 **Chemistry and P-Glycoprotein modulation**
Fernando Remião
(Faculty of Pharmacy, University of Porto, Portugal)
- 16:20 – 16:35 **Questions**

Day #3 – May 21, 2021

From bench to bedside: translational research

- 14:30 – 14:35 **Welcome and Introduction**
Moderator | Sofia Benfeito
(Faculty of Sciences, University of Porto, Portugal)
- 14:35 – 15:10 **Application of molecular image techniques in drug development**
Francisco Otero-Espinar
(University of Santiago de Compostela, Spain)
- 15:10 – 15:45 **Drug Discovery at the Pharma Industry: present status and future trends**
Javier Fernandez
(Johnson & Johnson, Spain)
- 15:45 – 16:20 **Development of small molecule inhibitors for treatment of CNS disorders**
László Kiss
(BIAL - Portela & Companhia S.A., Portugal)
- 16:20 – 16:55 **Entrepreneurship, the story of Mitotag**
José Duarte
(Mitotag, BIOCANT – Parque Tecnológico de Cantanhede, Portugal)
- 16:55 – 17:10 **Questions**