



ULISBOA  
ESCOLA DE  
PÓS-GRADUAÇÃO

**PhD and Postgraduate Advanced Course**

**“ADVANCED DRUG DELIVERY”**

**20<sup>th</sup>-24<sup>th</sup> March 2023**



## PRELIMINARY PROGRAMME

Monday – 20/03/2023

**Drug Delivery – Fundamentals 09:00h**

- *3D cancer models*

**Ronit, Satchi-Fainaro**, University of Tel Aviv, Israel 09:50h –  
Discussion

10:00h - *3D Printing for drug delivery*

**Joana Marto**, Research Institute for Medicines (iMed.Ulisboa), Faculty of Pharmacy,  
Universidade de Lisboa

10:50h – Discussion

**11:00h – Coffee break**

11:30h – *Advanced Drug Delivery: a practical PK approach*

**Paulo Paixão**, Research Institute for Medicines (iMed.Ulisboa), Faculty of  
Pharmacy, Universidade de Lisboa, Portugal

12:20h – Discussion

**12:30h - Lunch Break Overcoming Biological Barriers**

14:30h - *Lipid nanoparticles for drug targeting to the brain*

**Carla Vitorino**, Faculty of Pharmacy, University of Coimbra, Portugal

15:20h – Discussion

15:30h - *Nose-to-brain delivery*

**Carina Peres**, University of Beira Interior, Portugal 16:20h

– Discussion

**Tuesday - 21/03/2023**

**Therapeutic Proteins**

09:30h - Stabilization of therapeutic proteins for advanced drug delivery

**Ana Paula Leandro**, Research Institute for Medicines (iMed.Ulisboa), Faculty of  
Pharmacy, Universidade de Lisboa

10:20h – Discussion

**10:30h – Coffee break**

11:00h - *Challenges in the development of drug delivery systems for proteins*

**Luísa Corvo**, Research Institute for Medicines (iMed.Ulisboa), Faculty of  
Pharmacy, Universidade de Lisboa

11:50h – Discussion

**12:00h - Lunch Break**

14:00h - *In silico discovery of novel protein as potential targets for drug delivery*

**Rita Guedes**, Research Institute for Medicines (iMed.Ulisboa), Faculty of  
Pharmacy, Universidade de Lisboa

14:50h – Discussion

15:00h - *Successes and failures in the Design of Oral Protein Delivery Systems*

**Nicholas Peppas**, The University of Texas at Austin, EUA 15:50h – Discussion

**16:00h – Coffee break**

16:30h - *Proteins below the freezing temperature, unveiling thermostability and  
accelerating formulation by cold*

**Miguel Ângelo Rodrigues**, Centro de Química Estrutural, Instituto Superior Técnico,  
Universidade de Lisboa

17:20h – Discussion

**Wednesday - 22/03/2023**

**Delivery Strategies**

09:30h - *Overcoming the skin barrier*

**Sandra Simões**, Research Institute for Medicines (iMed.Ulisboa), Faculty of  
Pharmacy, Universidade de Lisboa

10:20h – Discussion

**10:30h – Coffee break**

11:00h - *Image-Guided Delivery of Nanotheranostics with Nuclear Imaging Modalities*

**António Rocha Paulo**, Instituto Superior Técnico, Campus Tecnológico e  
Nuclear, Universidade de Lisboa

11:50h – Discussion

**12:00h – Lunch break**

14:00h - *Nanotoxicology*

**Ana Francisca**, Research Institute for Medicines (iMed.Ulisboa), Faculty of  
Pharmacy, Universidade de Lisboa

14:50h – Discussion

15:00h – *Regulation of cancer immunity using advanced nanodelivery systems*

**Rita Acurcio**, Research Institute for Medicines (iMed.Ulisboa), Faculty of  
Pharmacy, Universidade de Lisboa

15:50 h – Discussion

**16:00h – Coffee break**

16h30h – *Advanced therapies*

**Fatima Ventura**, INFARMED – National Authority for Medicament and Health  
Products, Portugal

17h20h – Discussion

**Thursday - 23/03/2023**

**Innovative Technologies in drug manufacturing and delivery**

09:30h - *Microfluidics*

**João Pedro Conde**, INESC-IST, Instituto Superior Técnico, Universidade de Lisboa

10:20h – Discussion

**10:30h – Coffee break**

11:00h - *Organs in a Chip*

**Madalena Cipriano**, Fraunhofer Institute, Stuttgart, Germany

11:50h – Discussion

**12:00h - Lunch Break**

14:00h – *PAT tools toward translational advanced drug delivery*

**João Almeida Lopes**, Research Institute for Medicines (iMed.ULisboa), Faculty  
of Pharmacy, Universidade de Lisboa

14:50h – Discussion

15:00h – *Advanced drug delivery: from academia to Industry* **Eva**

**Zupanzic**, Janssen Pharmaceuticals, Belgium

15:50h – Discussion

**Friday – 24/03/2023**

09:30h – *Design of biomimetic drug delivery systems*

**Carmen Alvarez Lorenzo**, University of Santiago de Compostela, Spain

10:20h – Discussion

**10:30h – Coffee break**

12:00h - *Successes and failures in the design of oral protein delivery systems*

**Nicholas Peppas**, The University of Texas at Austin, USA

12:25h – *Advances in drug targeting by antibodies and cell engineering*

**João Gonçalves**, Research Institute for Medicines (iMed.Ulisboa), Faculty of  
Pharmacy, Universidade de Lisboa

12:50h - Discussion

**13:30h – End of Course**