

ADVANCED MODELS for PREDICTIVE TOXICOLOGY

 Faculty of Pharmacy University of Lisbon (FFUL)

25 - 27 Nov

Module 1: Advanced *in vitro* systems in safety assessment

Beyond 2D cell cultures: how 3D models are changing the *in vitro* studies.

Krzysztof Wrzesinski, CellVivo, DK

3D *in vitro* models of the human retina for drug testing and toxicity evaluation.

Sandra Tenreiro, NOVA NMS, PT

Heart organoids for drug screening.

Margarida Diogo, IST ULisboa, PT

Liver spheroids and organoids: advantages and applications.

Joana Miranda, FFUL, PT

3D *in vitro* skin tests: corrosion, irritation and sensitization tests.

Sérgio Camões, FFUL, PT

Microphysiological systems for *in vitro* toxicology.

Madalena Cipriano, Univ. Tuebingen, DE

Advanced 3D *in vitro* models for genetic toxicology: Insights from PAH exposure.

Bojana Zegura, National Institute of Biology, SI

Module 2: Emerging *in vivo* models

Challenges of conventional animal models.

Ihsan Gürsel, IBG, TK

Zebrafish as a preclinical model.

Gülçin Akdogan, IBG, TK

Avatar models: patient-derived xenografts (PDX).

Rita Fior, Fchampilmaud, PT

Humanized *in vivo* models and beyond.

Javier Cuberu, University Complutense of Madrid, ES

ADVANCED MODELS for PREDICTIVE TOXICOLOGY

 Faculty of Pharmacy University of Lisbon (FFUL)

Module 3: Personalized and predictive toxicology

Patient-derived *in vitro* models for personalized medicine.

Pau Sancho-Bru, IDIBAPS, ES

Advanced models for predictive hepatotoxicity testing.

Leonard Nelson, Edinburgh Napier University, UK

Bioinformatic tools in safety assessment.

Rita Guedes, FFUL, PT

Data integration from non-clinical assays for prediction of clinical conditions.

Tiago Rodrigues, FFUL, PT

Module 4: Student oral presentations of research project assignment

Projects presentation and discussion session

