



TISSUE ENGINEERING FOR INDUSTRY

3D models and Innovative technologies for Cosmetics, Nutrition, Pharmacology, Toxicology, ADME

Thursday December 9th, 2021 - 9H00-17H30

Biocitech (Romainville-Paris)

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8h45 Welcome coffee

9h15 **Welcome**
Sylvio BENGIO, Adebitech and Christophe DINI, OroXcell

9h30 **Keynote Lecture**
Saadia Kerdine-Römer, Université Paris Saclay, INSERM UMR 996
Alternative methods and the 3R strategy: what place for tissue engineering?

10h00-11h00 Session 1 - Nutrition / Gastro-intestinal models

10h00 **Marisa MELONI, VitroScreen, In Vitro Innovation Center**
A pre-clinical path on gastro-intestinal tract: from 3D epithelial models to intestinal spheroids

10h20 **Jan MARKUS, MatTek**
3D reconstructed small intestine epithelium for modeling of drug kinetics and toxicity

10h40 **Eric ANDRES, OroXcell**
Human reconstructed Intestine, a useful in vitro tool to predict drug oral absorption of finished products

11h00-11h15 *Coffee break*

11h20-12h30 **Session 2 - Medical devices / Skin/ Regulatory / Flash posters**

- 11h20 **Christian PELLEVOISIN, Episkin**
Tissue engineering, a driver for change in medical device biocompatibility studies
- 11h40 **Sébastien CADAU, BASF Beauty Care Solutions**
Sophisticated skin models for demonstrated cosmetic efficacies
- 12h00 **Nathalie ALÉPÉE, L'Oréal**
Regulatory considerations: A case study on Eye Irritation
- 12h20 **FLASH Presentations**
Karina CUANALO-CONTRERAS, cellQART® Technology, SABEU GmbH
Pierre-Alexandre LAURENT, Cellink Bioprinting technology
Henri-Philippe KONAN, I&L Biosystems

12h40-14h15 *Buffet lunch / Posters / Networking*

14h15-15h35 **Session 3 - Preclinical developments, airway models, oncology**

- 14h15 **Philippe DETILLEUX, Sanofi**
Micro-physiological models and other innovative in vitro systems for toxicity evaluation of new drugs - a Pharma Industry perspective -
- 14h35 **Samuel CONSTANT, Epithelix**
Development of in vitro immunocompetent human airway epithelial models for toxicity testing and infectious diseases research
- 14h55 **Christian REGENBRECHT, CELLphenomics GmbH**
Precision Oncology Beyond Genomics: The Future Is Here—It Is Just Not Evenly Distributed
- 15h15 **Colin McGUCKIN, CTIBiotech**
3D-Bioprinting human tumors to revolutionize personalized- / targeted- medicine and pre-clinical pharmaceutical development against cancer

15h35-16h00 *Coffee break / Posters / Networking*

16h00-16h40 **Session 4- Novel technologies - HCS, organ on chip, Neurofluidics**

- 16h00 **Julian BURSZTYKA, Perkin Elmer**
Tissue engineering and HCS (high content screening) for preclinical research: is the future at our doorstep?
- 16h20 **Thibaut HONEGGER, Netri**
Organ on chip approaches for Neuroscience: Neurofluidics reconstruction of neural networks and functional markers in drug discovery

16h40-17h30 **Round Table - discussion and conclusions - adjourn 17h30**

With speakers and audience participation

Moderator: Christophe DINI, Oroxcell: what are the future needs and applications for tissue engineering and related technologies? (Preclinical development, Regulatory trends, toxicology, immune-oncology, novel tools and technologies)