HANDS-ON LAB TRAINING

IN VITRO LUNG MODELS

6th & 7th November, 2025
Geneva, Switzerland

DAY 1

8.30	Welcome introduction		Samuel Constant EPITHELIX
9.00	Regulatory consideration for *in vitro* lung models		Clive Roper Roper Toxicology Consulting Limited
9.45	Reconstructed Human Airway Epithelium: Efficacy & Toxicity Assessment		Xiao-Yann Huang EPITHELIX
10.15	AXBarrier-on-Chip: A fit-for-purpose technology		Pauline Zamprogno ALVEOLIX
10.45	Coffee		
11.15	Innovative Aerosol Exposure Systems for *In Vitro* Toxicity Testing at the Air–Liquid Interface		Paul Schumacher VITROCELL
11.45	Mastering the 3D Tetraculture Model ALIsens®		Arno Gutleb & Sabina Burla INVITROLIZE
12.15	Beyond the barrier: importance of alveolar macrophages in predicting inhaled product safety		Victoria Hutter IMMUONE
12.45	Lunch		
14.15	HOT1 - Cell culture of 3D ALI lung models	• Quality criteria, maintenance, endpoints measurement and experimental design with ALI cultures	Xiao-Yann Huang EPITHELIX
15.45 > 17.15	HOT2 - Applying high content image analysis to inhalation safety	• Introduction to the theory of high content image analysis • Application of high content imaging to *in vitro* lung cell cultures • Interpretation of images and data outputs • Contextualising results within standard weight-of-evidence approaches for inhaled safety assessment	Victoria Hutter IMMUONE
19.00	Dinner		

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DAY 2

9.00	HOT3 - Innovative Aerosol Exposure Systems for *In Vitro* Toxicity Testing at the Air–Liquid Interface	• Overview of gas, liquid aerosol, and dry powder delivery systems • Key design features of modern exposure devices • Challenges in simulating real-world inhalation exposures • Dosimetry options • Case studies and system selection for specific research applications	Paul Schumacher VITROCELL
10.30	Coffee		
11.00	HOT4 - AXBarrier-on-chip installation and handling	• Initial filling and medium exchange • TEER measurement • Control of mechanical stretch, including breathing motion	Pauline Zamprogno ALVEOLIX
12.30	Lunch		
13.30	HOT5 - Mastering the 3D Tetraculture Model ALIsens®	• Design, functionality and application of the ALIsens® 3D tetraculture model • Preparation of ALIsens® 3D tetraculture model for air-liquid interface (ALI) exposure • Handling and assessing the model • Practical skills in advanced respiratory toxicology techniques	Arno Gutleb & Sabina Burla INVITROLIZE
15.00	Break		
15.30 > 16.30	Wrap-up conclusion round table discussion		

Breaks
Lectures
HOT

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