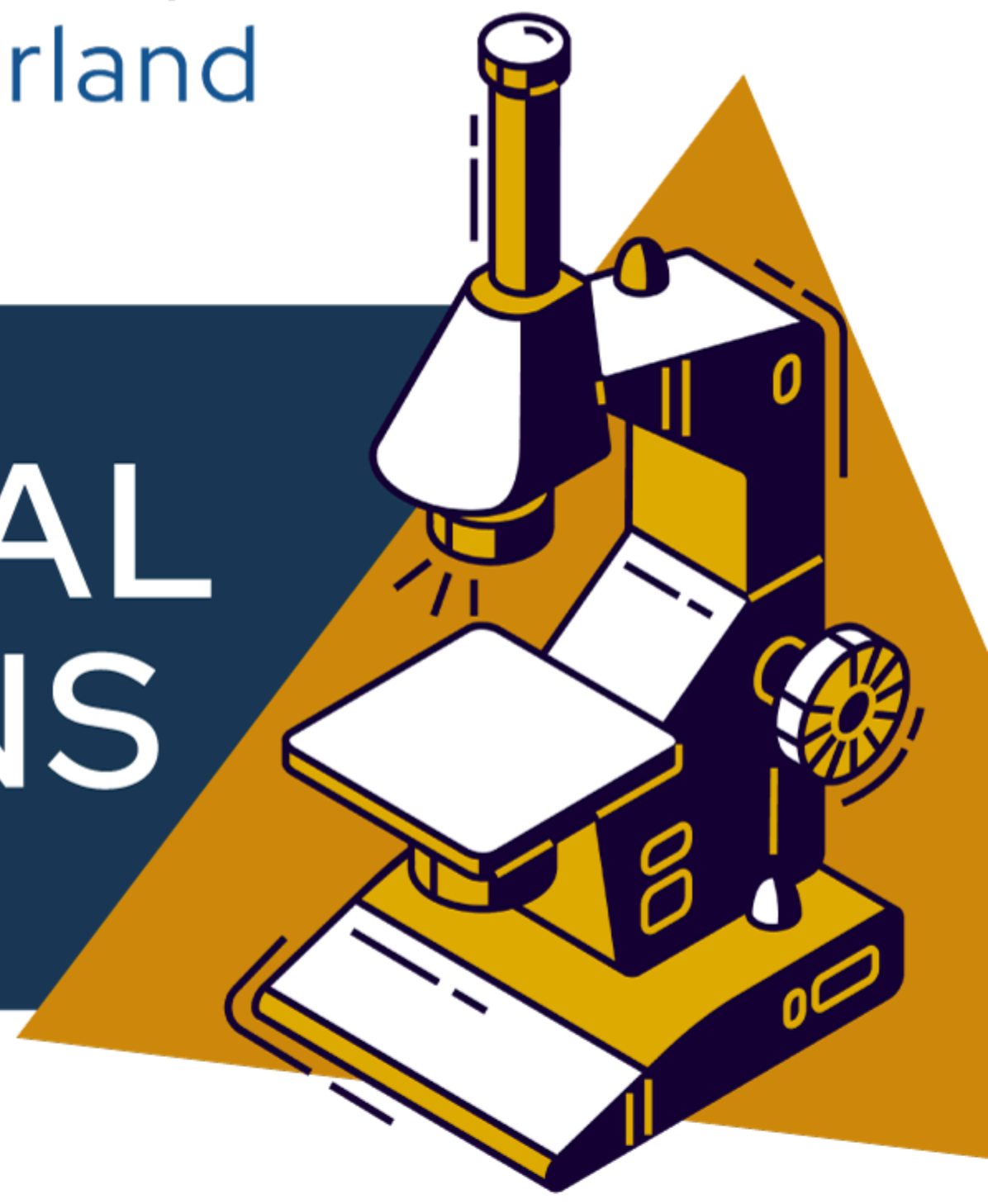
HANDS-ON LAB TRAINING

IN VITRO LUNG MODELS

- 6th & 7th November, 2025
- Geneva, Switzerland

PRACTICAL SESSIONS



ORGANIZERS

EPITHELIX ALTERTOX

PARTNERS

AlveoliX
In-vitro models inspired by nature

ImmuONE™
Inhalation and Immune *In Vitro* Assay Solutions

invitrolize
powered by cells

VITROCELL® SYSTEMS

HOT 1 : Cell culture of 3D ALI lung models

This session will cover the practical steps to follow when receiving Epithelix ALI cultures: from product unboxing to quality control.

A focus will also be made on the global design of an experiment with these models.

by **Xiao-Yann Huang**

EPITHELIX

EPITHELIX ALTERTOX AlveoliX In-vitro models inspired by nature ImmuONE Inhalation and Immune In Vitro Assay Solutions invitrolize powered by cells VITROCELL SYSTEMS

HOT 2: Applying high content image analysis to inhalation safety

This session will cover the theory of high content image analysis and the application to *in vitro* lung cell cultures.

A focus will be on the interpretation of images and data as well as contextualising the outputs alongside more standard approaches towards weight-of-evidence inhaled safety assessment.

by **Victoria Hutter**

ImmuONE™
Inhalation and Immune *In Vitro* Assay Solutions

EPITHELIX ALTERTOX AlveoliX In-vitro models inspired by nature ImmuONE™ Inhalation and Immune *In Vitro* Assay Solutions invitrolize powered by cells VITROCELL SYSTEMS

HOT 3: Innovative Aerosol Exposure Systems for In Vitro Toxicity Testing at the Air–Liquid Interface

This session will provide an in-depth look at advanced exposure systems designed for *in vitro* models cultivated at the air–liquid interface (ALI).

Learn how these systems deliver gases, liquid aerosols, and dry powders to lung cell cultures relevant for realistically simulating inhalation exposures for respiratory studies, and how they bridge the gap between lab models and real-world lung exposure.

by **Paul Schumacher**

VITROCELL® SYSTEMS

EPITHELIX ALTERTOX AlveoliX In-vitro models inspired by nature ImmuONE Inhalation and Immune In Vitro Assay Solutions invitrolize powered by cells VITROCELL® SYSTEMS

HOT 4: AXBarrier-on-chip installation and handling

This session presents AXBarrier-on-chip, a technology designed to mimic the microenvironment of different organs, with a special focus on the lung and the reproduction of the breathing motion.

It includes case studies demonstrating the model's ability to predict drug safety and efficacy and highlights its compatibility with exposure system.

by **Pauline Zamprogno**

AlveoliX
In-vitro models inspired by nature

EPITHELIX ALTERTOX AlveoliX In-vitro models inspired by nature ImmuONE Inhalation and Immune In Vitro Assay Solutions invitrolize powered by cells VITROCELL SYSTEMS

HOT 5: Mastering the 3D Tetraculture Model ALIsens®

This session will focus on the 3D tetraculture model ALIsens® - a cutting-edge *in vitro* system that closely mimics the human alveolar barrier.

Gain a deep understanding of the tetra culture model's design & its application in identifying respiratory sensitizers, learn essential methods for preparing the model for ALI exposure conditions and engage in guided exercises to handle & assess the model, enhancing practical skills in respiratory toxicology.

by **Arno Gutleb & Sabina Burla**

invitrolize
powered by cells

EPITHELIX ALTERTOX AlveoliX In-vitro models inspired by nature ImmuONE Inhalation and Immune In Vitro Assay Solutions invitrolize powered by cells VITROCELL SYSTEMS

Register Now

ORGANIZERS

EPITHELIX ALTERTOX

PARTNERS

AlveoliX
In-vitro models inspired by nature

ImmuONE™
Inhalation and Immune *In Vitro* Assay Solutions

invitrolize
powered by cells

VITROCELL® SYSTEMS