

# EPITHELIX | TRAINING



## In Vitro Lung Models

co-organized by



THURSDAY 14<sup>TH</sup> - FRIDAY 15<sup>TH</sup> OF NOVEMBER 2019

hosted by EPITHELIX  
Geneva - SWITZERLAND

### DAY 1 THURSDAY NOVEMBER 14<sup>TH</sup>

08:30 - 08:50	Welcome coffee, registration		
08:50 - 09:05	Welcome Introduction	<b>Introduction and round table</b>	Samuel Constant Epithelix
09:05 - 09:15	Introduction	<b>Altertox Academy Overview</b>	Ilija Prachkovski Altertox Academy
09:15 - 10:05	Keynote Speaker	<b>Regulatory Considerations for <i>in vitro</i> Lung Models</b>	Rex FitzGerald Swiss Center for Applied Human Toxicology
10:00 - 10:30	Lecture Lung models	<b>3D <i>in vitro</i> Models of the Human Airway Epithelium for Inhalation Toxicity Testing</b>	Samuel Constant Epithelix
10:30 - 11:00	Lecture Lung models	<b>Bioinspired Lung-on-Chip TBD</b>	Nina Hobi Alveolix
11:00 - 11:15	Coffee Break		
11:15 - 11:45	Lecture Exposure devices	<b>Novel Aerosol Exposure Devices for In Vitro Toxicity Testing at the Air/Liquid Interface</b>	Patrick Weindl Vitrocell
11:45 - 12:15	Lecture TEER	<b>Theoretical and practical aspects of the trans-epithelial electrical resistance (TEER) and tissues interconnection</b>	Adrien Roux Hepia
12:15 - 13:45	Lunch		

13:45 – 15:15	Hands-on Training 1	Cell culture of 3D ALI lung models Quality criteria, maintenance, end-points measurement (LDH, mucins, Alcian Blue staining) Treatment with chemicals (Part 1) – Static exposure with Liquid and Solid (Nanopress)	Song Huang & Xiao-Yann Huang Epithelix
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15:15 - 15:30	Coffee		
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15:30 – 17:00	Hands-on Training 2	Monitoring of Cilia Motion: Cilia Beating Frequency (CBF) and Mucociliary Clearance (MCC), histology and immunostaining of ALI culture	Bernadett Boda & Rosy Bonfante Epithelix
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19:00	Social Dinner		
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## DAY 2 FRIDAY NOVEMBER 15<sup>TH</sup>

08:30 – 09:00	Arrival, coffee		
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09:00 – 10:30	Hands-on Training 3	Treatment with chemicals (Part 2) – In vitro testing of nanomaterials and pharmaceutical substances using the VITROCELL CLOUD System	Patrick Weindl Vitrocell
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10:30 - 10:45	Coffee Break		
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10:45 – 12:15	Hands-on Training 4	Lung-on-chip system installation and AX-12 chip handling. Initial filling and medium exchange. Assembly and software introduction. Observation of cyclic breathing motion	Nina Hobi Alveolix
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12:15 - 13:30	Lunch		
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13:30 – 15:00	Hands-on Training 5	Interconnection of human airway epithelia and set-ups for online TEER analysis	Adrien Roux & Jeremy Laedermann Hepia
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15:00 – 15:30	Wrap up	Conclusion, round table discussion	Samuel Constant Epithelix
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15:30 -15:45	Closing of the session	Handing out Certificates	
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**DIRECTION TO EPITHELIX:**

EPITHELIX Sàrl: 18, Chemin des Aulx, 1228 Plan-Les-Ouates,  
Genève, SWITZERLAND  
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epithelix@epithelix.com - www.epithelix.com

**ACCOMODATIONS:**

Preferred choice: (1 minute walk from Epithelix)  
Les chambres du CTN : Stéphanie SERINO. Chemin des Aulx 16, 1228 Plan-les-Ouates  
Tel : + 4122 884 30 00 / Info@leschambresductn.ch / www.leschambresductn.ch

Second choice: (12 minutes drive from Epithelix)  
Le Savoie: 7, Av. Louis Armand, 74160 St. Julien-En-Genevois, France  
Tel : +33 4 50 49 03 55 / www.savoie-hotel.net/home/

We can arrange pick up from "Le Savoie"

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**BUILDINGS' PLAN:**

