



**UNIVERSITÉ
DE GENÈVE**

Life science research: 3R applications

Cell-based models for diseases of lung and brain

October 2nd 2015

13.00 - 13.10 **Welcome**

13.10 – 13.40 **The use of reconstructed 3D airway epithelium in drug development for respiratory diseases and chemical testing**

Dr. Samuel Constant, Epithelix

13.40 – 14.10 **Genetic manipulation of human airway epithelial cells to study their regeneration in cystic fibrosis**

Prof. Marc Chanson, University of Geneva

14.10 - 14.40 **Differential pathogenesis of the most common respiratory viruses in reconstituted human airway epithelia**

Prof. Caroline Tapparel, University of Geneva

14.40 – 15.00 **Coffee break**

15.00 - 15.30

Use of pluripotent stem cells to establish relevant in-vitro models for diseases of the central nervous system

Prof. Karl-Heinz Krause, University of Geneva

15.30 – 16.00 **Electrophysiology of engineered neural tissue and its application for neurotoxicology**

Prof. Luc Stoppini, Hepia

16.00 – 16.30 **Engineered neural tissues for studying human encephalitis and neurotropic viruses**

Dr. Manuel Schibler, HUG

16.30 – 17.00 **Commercialization of pluripotent stem cell-based in vitro models of the central nervous system**

Dr. Mathurin Baquie, Neurix