

### **ABSTRACT BOOK**

**January 30 - 31, 2018** 

**Fribourg** 

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# Program 7<sup>th</sup> Swiss Virology Meeting January 30/31 2018, Fribourg

## Tuesday, January 30, 2018

| 10:00 – 10:25 | Arrival and Welcome Coffee   |  |
|---------------|--|--|
| 10:25 – 10:30 | Welcome Address  | Jérôme Gouttenoire & Angela Ciuffi   |
| 10:30 - 12:00 | PLENARY TALK SWISS VIROLOGIST ABROAD (CUSO) Introduction: Caroline Tapparel  |  |
| 10:30 –11:15  | Peter Stäheli – University of Freiburg, Germany<br>Interferon-λ and mucosal antiviral immunity                       |  |
| 11:15 –12:00  | Pierre Maillard - University College of London, United Kingdom<br>Antiviral RNAi in mammals: a game of hide-and-seek |  |
| 12:00 – 13:00 | Sandwich Lunch<br>Round-table discussion of<br>Stäheli   | Ph.D. students & postdocs with Pierre Maillard and Peter                                 |
| 13:00 – 14:45 | SESSION I: VIRUS LIFE CYL<br>Chairs: Jérôme Gouttenoin   | .E ( <i>CUSO</i> )<br>re & Cornel Fraefel and Ph.D. students                             |
| 13:00 –13:30  | <b>Urs Greber</b> - <i>University of</i> Rewiring cells in virus enti  |  |
| 13:30 – 14:00 | Silke Stertz – University of<br>IFITM3 incorporation into<br>mediated virus neutralizat                              | influenza A virus particles increases sensitivity to antibody-                           |
| 14:00 – 14:15 | Philip V'Kovski – Universit<br>Subcellular molecular env<br>proximity labelling                                      | ty of Bern ironment of coronavirus replicase complexes revealed by                       |
| 14:15 – 14:30 | <b>Chiara Fedeli</b> – <i>University</i><br>The role of receptor tyros   | of Lausanne<br>ine kinases in cell entry of Lassa virus                                  |
| 14:30 – 14:45 | <b>Jérôme Gouttenoire</b> – <i>Un</i><br>Palmitoylation determines   | iversity of Lausanne<br>s the subcellular localization of hepatitis E virus ORF3 protein |
| 14:45 – 15:15 | Coffee Break   |  |
| 15:15 – 17:00 | SESSION II: VIRUS EVOLU<br>Chairs: Stefan Kunz & Volk  |  |
| 15:15 – 15:45 |  | Lausanne University Hospital<br>n viral sequence through genome-to-genome analysis       |
| 15:45 – 16:05 | Claudia Bachofen - Univer<br>Virome analysis: Possibilit   |  |
| 16:05 – 16:25 | Ronald Dijkman - Universe<br>Characterization of virus -   | ity of Bern host interaction dynamics within the respiratory epithelium                  |
| 16:25 – 16:40 | Masako Kaufmann – Univ<br>Co-evolution of broadly no   | versity of Zurich<br>eutralizing antibodies and HIV-1                                    |
| 16:40 – 16:55 | Sara Cristinelli – Universit<br>Single-cell RNA-seq reveal<br>infected cells   | y of Lausanne<br>s transcriptional heterogeneity in latent and reactivated HIV-          |
| 17:00 – 19:00 | Coffee Break and <b>POSTER</b>   | SESSION  |
| 19:00 – 21:00 | Dinner   |  |

## Wednesday, January 31, 2018

| 7:30 - 8:45   | Breakfast (at hotel)  |
|---------------|---|
| 9:00 - 11:00  | SESSION III: VIRUS AND HOST DEFENSE Chairs: Matthias Schweizer & Caroline Tapparel  |
| 9:00 – 9:30   | Michel Strubin - University of Geneva<br>Smc5/6: a new restriction factor that blocks episomal gene transcription   |
| 9:30 – 10:00  | Jovan Pavlovic - University of Zurich New viral targets of human Mx proteins  |
| 10:00 – 10:15 | <b>Carmela Lussi</b> - <i>University of Bern</i> Site-directed mutagenesis of pestiviral RNase and its effect on innate immune evasion                            |
| 10:15 -10:30  | <b>Eva Spieler</b> – <i>University of Zurich</i> Identification of novel ISGs involved in the antiviral response against Influenza A virus                        |
| 10:30 – 10:45 | Michel Crameri - University of Zurich  MxB is an interferon-induced restriction factor of human herpesviruses   |
| 10:45 – 11:00 | Nora Schmidt – University of Zurich TRIM28 desumoylation during influenza virus infection   |
| 11:00 – 12:30 | Coffee Break and POSTER SESSION   |
| 12:30 – 14:00 | Lunch at restaurant   |
| 14:00 – 16:00 | SESSION IV: MEDICAL AND ENVIRONMENTAL VIROLOGY Chairs: Michael Huber & Angela Ciuffi  |
| 14:00 – 14:30 | Karin Metzner - University Hospital of Zurich Factors affecting the dynamics of the HIV-1 reservoir   |
| 14:30 – 15:00 | Philippe Plattet - University of Bern Insights into morbillivirus cell entry  |
| 15:00 – 15:15 | <b>Verena Kufner</b> - <i>University of Zurich</i> Virus transmission during kidney transplantation assessed by virome analysis of living donor and recipient     |
| 15:15 – 15:30 | Caio Foulkes - University of Zurich Identification of broad and potent neutralizing DARPins that target conserved domains of the HIV-1 envelope                   |
| 15:30 – 15:45 | <b>Eirini Tseligka</b> - <i>University of Geneva</i> Heparan sulfate binding is a critical determinant of enterovirus 71 dissemination and pathogenesis in humans |
| 15:45 – 16:00 | <b>Soner Yildiz</b> - <i>University of Geneva</i> Influenza A virus infection impacts intestinal microbiota dynamics and causes quantitative enteric dysbiosis    |
| 16:00 – 16:15 | Farewell Address  |

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Meeting Desk will be open only January  $30^{th}$  from 9 - 17h with Karin Dietze and Liv Lüscher. In case of questions or help please call: 079 349 79 86.

On January 31<sup>st</sup>, the Meeting Desk will be closed. For help please ask the hotel reception.

Wishing you all a pleasant 7<sup>th</sup> Swiss Virology Meeting!

