

#### **ABSTRACT BOOK**

January 31<sup>st</sup> – February 1<sup>st</sup>, 2023

#### Bern

www.swissvirology.ch

#### Organizing and Scientific Committee (in alphabetic order)

Angela Ciuffi (University of Lausanne)
Cornel Fraefel (University of Zurich)
Jérôme Gouttenoire (University of Lausanne)
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Caroline Tapparel (University of Geneva)
Volker Thiel (University of Bern)
Stefan Wieland (University of Basel)

# Program 9<sup>th</sup> Swiss Virology Meeting January 31 & February 1, 2023 Bern

#### Tuesday, January 31, 2023

10:25 – 10:30	Welcome Address Jérôme Gouttenoire
10:30 – 12:00	PLENARY TALK SWISS VIROLOGISTS ABROAD Introduction: Jérôme Gouttenoire - Matthias Schweizer
10:30 –11:15	<b>Yorgo Modis</b> – <i>University of Cambridge, UK</i> (2023024) Endogenous viruses: new biological activities and evolutionary insights from our genomic dark matter
11:15 –12:00	Christine Tait Burkhart – The Roslin Institute, University of Edinburg, UK (2023114) Genome editing in livestock to exploit host-pathogen interactions for disease resistance
12:00 – 14:00	Sandwich Lunch & Poster Viewing Round-table discussion of PhD students & postdocs with plenary speakers
14:00 – 14:30	STUDENT SESSION (CUSO): Session from and by the students Chairs: Committee of PhD students
14:00 –14:15	<b>Grégory Mathez</b> – (2023046) Novel Attachment Inhibitors of Human Parainfluenza 3
14:15 – 14:30	Alfonso Gomez Gonzalez $-(2023071)$ Bio-orthogonal live cell viral DNA visualization through alkyne-tetrazine ligation
14:30 - 16:30	SESSION I: VIRUS-HOST INTERACTIONS: THE VIRUS SIDE Chairs: Mirco Schmolke - Stefan Wieland
14:30 – 15:00	Yohei Yamauchi – ETH Zurich (2023112) Ultrastructure of influenza virus assembly at the cell membrane
15:00 – 15:30	<b>Jérôme Gouttenoire</b> — Lausanne University Hospital (2023048) A journey into unknown territory: the hepatitis E virus life cycle
15:30 – 15:45	Silvio Steiner – (2023104)  Deciphering the function of NSP1 ribosome binding during SARS-COV-2 infection
15:45 – 16:00	<b>Guillaume Beilleau</b> – (2023025) Innate immune evasion by pestiviral E <sup>rns</sup> in bovine airway epithelial cell cultures
16:00 – 16:15	<b>Catherine Eichwald</b> – (2023056) Recruitment of TRiC chaperonin in rotavirus viroplasms directly associates with virus replication
16:15 – 16:30	Jan Bieri – (2023096) Parvovirus entry involves vesicle budding from endosomes and retrograde transport to the Golgi
<del>16:30 – 17:00</del>	Coffee Break
17:00 – 19:00	POSTER SESSION
19:00 – 21:00	Dinner and Poster Viewing

### Wednesday, February 1, 2023

7:30 - 8:45	Breakfast (at hotel)
9:00 – 11:00	SESSION II: VIRUS AND HOST INTERACTIONS: THE HOST SIDE Chairs: Caroline Tapparel - Carlos Ros
9:00 – 9:30	Alexandra Trkola – University of Zurich (2023095) Broadly neutralizing HIV-1 antibodies: Lone superstars or team players
9:30 – 10:00	Mirco Schmolke – University of Geneva (2023003) Using cell surface proximity ligation to identify novel host factors for influenza A virus entry
10:00 – 10:15	<b>Ludivine Brandt</b> – (2023076) Cellular determinants of permissiveness to HIV: A 6-day correlation analysis of cell stimulation and infection
10:15 – 10:30	Nina Mair – (2023057) Characterizing type I interferon auto-antibodies in the Swiss HIV Cohort Study
10:30 – 10:45	Vaiva Gradauskaite – (2023068) LRP6 is a functional receptor for attenuated canine distemper virus
10:45 – 11:00	Maija Pietilä – (2023022) Cellular state landscape predicts virus infection progression
11:00 – 11:30	Coffee Break
11:30 - 12:30	POSTER SESSION
12:30 – 14:00	Lunch and Poster Viewing
14:00 - 16:00	SESSION III: CLINICAL VIROLOGY: VACCINES AND ANTIVIRALS Chairs: Karin Metzner - Cornel Fraefel
14:00 – 14:30	<b>Volker Thiel</b> – <i>University of Bern</i> (2023116) Lost in translation - SARS-CoV-2 attenuation by large scale genome recoding
14:30 – 15:00	<b>Arnaud Didierlaurent</b> – <i>University of Geneva</i> (2023118) Response to SARS-CoV2 mRNA vaccines in immunocompromised patients
15:00 – 15:15	Olha Puhach – (2023117) SARS-CoV-2 mucosal antibody responses to vaccination and infection
15:15 – 15:30	Sarah Klinnert – (2023043) Targeted shock-and-kill HIV-1 gene therapy approach combining CRISPR activation, suicide gene tBid and retargeted adenovirus delivery
15:30 – 15:45	Caroline Tapparel – (20230778) Heparan sulfate binding mediates Enterovirus A71 virulence in immuno- suppressed mice
15:45 – 16:00	Valeria Cagno – (2023018) Targeting viral RNA as a new antiviral strategy

## Many thanks to our generous sponsors:



















## **LIST OF PARTICIPANTS**

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Meeting Desk will be open only January 31st from 9 – 16h with Karin Dietze and Sharuka Shanmugathasan.

On February 1st the Meeting Desk will be closed.

For help please also ask the hotel reception.

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Wishing you all a pleasant 9<sup>th</sup> Swiss Virology Meeting!