



Microbiology & Molecular Medicine Retreat



Tuesday September 23rd 2025

La Ferme du Lignon, 51B route du Bois des Frères

8:30 – 8:55 AM: Arrival

8:55 – 9:00 AM: Welcome & Opening Remarks

9:00 – 10:30 AM: Session I

- Lab Viollier – **Prof. Patrick Viollier**
“Dismantling the antibiotic permeability barrier of Gram-negative bacteria”
- Lab Soldati - **Dr. Eva Frickel**
“Detect, destroy and die: how immune-activated human cells react to infection”
- Lab Schmolke – **Mehdi Chabert, PhD**
“Modulation of Influenza A viral polymerase by human host factors, the case of FAM90A1”
- Lab Collart - **Olesya Panasenko, PhD**
“Selective Ribo-Seq uncovers translation at the nuclear pore”

Léna Audebert, PhD

“Analysis of nuclear pore translation and analysis of the impact of Not4 on the proteome associated with Puf3”

10:30 – 11:00 AM: Coffee Break

11:00 AM – 12:30 PM: Session II

- Lab Kline – **Antonin André, PhD**
“Adherence-mediated antibiotic tolerance in bacteria”
- Lab Prasad – **Debkanya Sengupta, PhD student**
“Unconventional UPR signalling during adenovirus infection”
- Lab Guérin – **Sandra Moreno Sanchez, PhD student**
“Characterization of Cryptosporidium pellicle and associated transporters”
- Lab Van Delden/ Kohler – **Klara-Isabell Garbe, PhD student**
“Phages for the treatment of chronic Pseudomonas aeruginosa infections”

12:30 – 1:00 PM

Invited Speaker – **Prof. Simone Becattini**, PATIM department (UNIGE)

“Unveiling *K. pneumoniae* adaptation in the gut: mechanisms of colonization and strategies for interference”

1:00 – 2:00 PM: Lunch Break**2:00 – 3:30 PM: Session III**

- Lab. Valentini – **Prof. Martina Valentini**
“The RNA Degradosome: a molecular machine driving bacterial adaptation and virulence”
- Lab. Brochet – **Prof. Mathieu Brochet**
« Cytoskeletal gymnastic in malaria parasites »
- Lab. Tapparel – **Han Tee Kang, PhD**
“Decoding Enterovirus 71: mechanisms of infection and transmission”
- Lab. Andrey – **Dr. Diego Andrey**
“AMR dynamics in the hospital setting”

3:30 – 4:00 PM Afternoon Coffee Break**4:00 – 4.50 PM: Session IV**

- Lab. Eckerle
Konstantin Frank, MD-PhD
“Modelling the Airway to Understand Age-dependency in Respiratory Viral Disease”
- Nirmegh Basu, PhD student**
"Arms race between Viral Evolution and Population Immunity; Understanding the Impact of Antibody Pressure on SARS-CoV-2 variants and Human Endemic Coronaviruses"

5:00 – 5.30 PM:

Invited speaker - **Dr Gerardo Priotto**, Medical Officer, Human African Trypanosomiasis, World Health Organization, Geneva,

«Trypanosomiase humaine africaine : vers l'élimination ? »

5:30 – 5:45 PM: Closing Session**5:45 – 9:00 PM: Aperol & Dinner**