



# SWISS SOCIETY FOR MICROBIOLOGY

## **Annual congress 2022**

SwissTech Convention Center, EPFL  
Quartier Nord, Ecublens-Lausanne

**August 30 – September 1, 2022**



## PROGRAM



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## **Congress organization**

**Prof. Christof Holliger,**  
**Environmental Biotechnology, EPFL, Lausanne**

President of the Congress

**Prof. Gilbert Greub, Institute of Microbiology, CHUV, Lausanne**

Co-president

**Prof. Pilar Junier, Institute of Biology, University of Neuchâtel**

Co-president

## **Clinical Microbiology**

Adrian Egli ; Jacques Schrenzel

## **Early career**

Florian Tagini

## **Environmental Microbiology**

Sara Mitri ; Julia Vorholt

## **Lay Communication**

Gilbert Greub ; Pilar Junier

## **Molecular Microbiology**

Martin Pilhofer ; Hubert Hilbi

## **Mycology**

Markus Kunzler ; Alix Coste

## **Virology**

Jérôme Gouttenoire ; Ronald Dijkman

## **NCCR AntiResist**

Urs Jenal ; Anne-Cécile Hiebel

## **NCCR Microbiomes**

Shini Sunagawa ; Pascale Vonaesch

## **NRP72**

Joachim Frey

## **NRP78**

Marcel Salathé



Welcome to the SSM Annual Meeting and Assembly 2022.

The year 2022 is a special year for the SSM as the society will celebrate its **80<sup>th</sup> anniversary**. The first Annual Assembly of SSM was held in Lausanne in the year 1942. The 80<sup>th</sup> Annual Assembly will again be in Lausanne, namely at the SwissTech Convention Center STCC. It is organized by Gilbert Greub, Christof Holliger and Pilar Junier.

The motto of this special event is “Celebrating Microbiology Research”. The different contributions will portray the latest microbiological discoveries not only at Swiss research institutions, but also from scientist around the world. The scientific program includes keynote presentations by Colomban de Vargas, Dominique Sanglard, Isabella Eckerle, and Susan Lea. In addition, we will have poster and oral presentations in the fields represented at the society, including clinical, molecular, and environmental microbiology, virology, mycology, and lay communication. Two new sessions organized by the Early Career Section will be also a novelty to the program. In addition, we are happy to announce special sessions highlighting the different research programs of national importance, namely the two NCCRs Antiresist and Microbiomes, and the two NRPs 72 (Antimicrobial Resistance) and 78 (Covid-19).

Thus, whatever your field and your background, you will find for sure the science you are looking for during these three days of a vibrant and exciting meeting in Lausanne with its plenary lectures, six parallel sessions, and numerous contributed talks and posters presented by promising young researchers.

Christof Holliger  
President of the Congress

Pilar Junier

Gilbert Greub  
Co-Presidency

## Venue

SwissTech Convention Center, EPFL  
Rue Louis Favre 2, 1024 Ecublens  
[www.stcc.ch](http://www.stcc.ch)

## Registration

online on [www.meeting-com.ch](http://www.meeting-com.ch)/Conferences & Meetings

### Registration fee

Member\*  
Non-Member  
PhD Student\*\*

### Early fee

(before August 1, 2022)  
CHF 300.00  
CHF 350.00  
CHF 180.00

### Late fee & onsite

(as of August 2, 2022)  
CHF 400.00  
CHF 450.00  
CHF 250.00

## Gala Dinner on Wed August 31, 2022

CHF 120.00 (limited places)

**Daily participation at 50% of the indicated late rate. Please contact the congress management.**

\* In order to benefit from the Member fee, the annual membership 2022 has to be duly paid to the society.

\*\* In order to benefit from the reduced fee, PhD students are required to send a document confirming their status to the Congress Management by fax or scanned within 7 days from the date of registration.

## Congress office management

Meeting.com Sàrl Congress Organisation  
Rue des Pâquis 1 • CH-1033 Cheseaux-sur-Lausanne  
T +41 (0)21 312 92 62  
[nicole.giacomini@meeting-com.ch](mailto:nicole.giacomini@meeting-com.ch)



## Credits in demand to

FAMH in Microbiology  
Swiss Society for Infectious Diseases  
Animal Experimentation

## Topics colour key

Clinical microbiology

Cell & molecular microbiology

Environmental microbiology

Lay communication & early careers

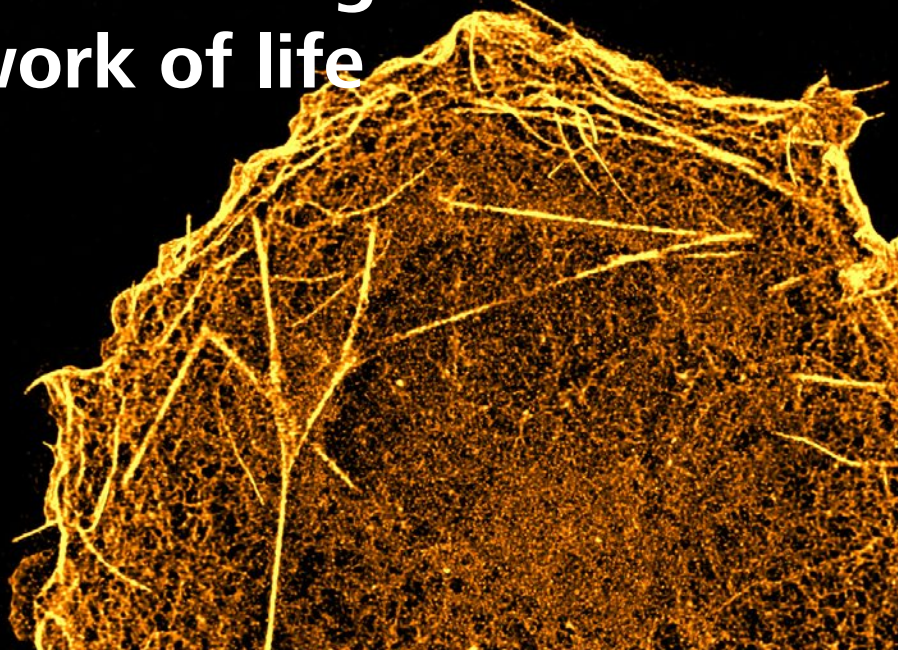
Mycology

NRP72

NRP78

Virology

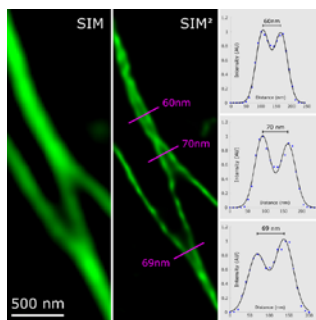
# Revealing the vibrant sub-organelle network of life



## ZEISS Elyra 7 with Lattice SIM<sup>2</sup> 3D Super-resolution Live Cell Imaging

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## Engage your audience : my thesis in 180 seconds !

**On Tuesday August 30, 2022 at 12h-12h45**

Five young colleagues will show their ability to communicate their research to a non-expert audience.

Please participate to this session **“Engage your audience. My thesis in 180 seconds”**, to support these five researchers and discover their area of research.

The session will be held at 12h on Tuesday 30th august in the auditorium C.

Awards will then be delivered during the award ceremony on 1st September



# Journal Club Challenge

**On Thursday September 1st, 2022 at 13h30**

The Early Career commission is pleased and excited to introduce the **“Journal Club Challenge”**, a session with a new format that will be held in Garden 4ABC. The participants select a paper from their field that has had an impact on their research (ideally a paper published over the past 2 years). The challenge is to present it in **5 minutes** in the **most captivating way**. Each talk will be followed by a short time of questions & answers to make it interactive. The award for the **best presentation will be CHF 300.-**. Please join us for an exciting session!

Awards will then be delivered during the award ceremony on 1st September

[illegible]

# Abstract book

## **Abstract book link**

to be finalized

**09.30**      **Registration**

**FOYER**

**10.30**      **Introduction**

**AUDITORIUM C**

Pilar Junier, Neuchâtel ; Gilbert Greub, Lausanne ;  
Christof Holliger, Lausanne

**10.45-11.30**

### **Keynote lecture**

**AUDITORIUM C**

Chair : Hubert Hilbi, Zurich

K-01

### **Structural insights into directional switching in the bacterial flagellum**

Susan Lea, Frederick (US)

**11.30-12.00**

### **Plenary posters 1**

**AUDITORIUM C**

Chair : Jacques Schrenzel, Geneva

**11.30-11.33**

PF/P-01

An unstable beta-helix protein in the outer membrane is a stress sensor of converging signaling pathways that promote antibiotic uptake – Jordan Costafrolaz, Geneva

**11.35-11.38**

PF/P-02\*

*Fusobacterium necrophorum*: association of pathogenic determinants with three clinical presentations  
Alessia Carrara, Lausanne

**11.40-11.43**

PF/P-03\*

Promising antagonistic activity of *Streptomyces* spp. metabolites against multiple pathogens of potato plants  
Alisson Gillon, Fribourg

**11.45-11.48**

PF/P-04

Discovery of a novel solitary DNA methyltransferase that represses endonuclease- dependent DNA damage in *Caulobacter crescentus* – Noémie Matthey, Lausanne

**11.50-11.53**

PF/P-05

A *Malassezia pachydermatis* genotype potentially associated with fluconazole resistance – Sonja Kittl, Bern

\* Student paper

## 12.00-12.45

### 12.00-12.45 **ENGAGE YOUR AUDIENCE**

AUDITORIUM C

Chairs : Pilar Junier, Neuchâtel ; Gilbert Greub, Lausanne

**12.00-12.03** **My thesis in 180 seconds: GUMICOV** – Yangji Choi, Lausanne  
S-01\*

**12.05-12.08** **My thesis in 180 seconds: Dysbiosis and inflammation in Osteoarthritis** – Kajetana Bevc, Zurich  
S-02\*

**12.10-12.13** **My thesis in 180 seconds: Microbial strategies to successfully colonize and persist in the phyllosphere**  
S-03  
Lucas Hemmerle, Lausanne

**12.15-12.18** **My thesis in 180 seconds** – Laetitia Le Caous, Bern  
S-04\*

**12.20-12.23** **My thesis in 180 seconds: How to study antibiotic resistance by gluing bacteria to a diving board** – Christèle Aubry, Lausanne  
S-05\*

### 12.45-14.00 **Lunch break**

EXHIBITION

## 14.00-15.30

SESSION 1

### **Clinical Microbiology – Rapid diagnostics**

AUDITORIUM C

Chairs : Gladys Martinetti Lucchini, Bellinzona ; Peter Keller, Bern

**14.00-14.30** **Automation in microscopy** – Oliver Nolte, St.Gallen  
M-01

**14.30-14.45** **Rapid detection of bacterial urinary tract infections using reporter phage-mediated bioluminescence** – Matthew Dunne, Zurich  
S-06

**14.45-15.00** **Urinary tract infection diagnostics: Use of fluorescence flow cytometry to reduce bacterial culturing**  
S-07  
Eva Hitz / Michael Oberle, Aarau

**15.00-15.15** **Evaluation of the NeuMoDx™ SARS-CoV-2 Assay Workflow during the 5th Swiss COVID-19 Wave** – Konrad Egli, Liebefeld  
S-08

**15.15-15.30** **Impact of total laboratory automation on time to results of urine cultures** – Antonios Kritikos, Lausanne  
S-09\*

\* Student paper

## 14.00-15.30

### SESSION 2

#### **Molecular Microbiology – Bacterial physiology and cell biology**

GARDEN 2ABC

Chairs : Yolanda Schaerli, Lausanne ; Martin Pilhofer, Zurich

- 14.00-14.30** **M. tuberculosis cell wall metabolism and antibiotic tolerance**  
M-02 Michael Berney, New York (US)
- 14.30-14.45** **Cell wall synthesis and remodeling dynamics determine bacterial division site architecture and cell shape**  
S-10 Andrea Vettiger, Harvard (US)
- 14.45-15.00** **Bacteriocins and mobilization of a human commensal as a new strategy to inhibit the opportunistic human pathogen S. pneumoniae**  
S-11 Johann Mignolet, Lausanne
- 15.00-15.15** **O-antigen phase variation promotes the co-existence of Salmonella and virulent phages during intestinal colonization**  
S-12\* Anouk Bertola, Basel
- 15.15-15.30** **Identifying how the SMC motor works by identifying new conformational states**  
S-13\* Ophélie Gosselin, Lausanne

### SESSION 3

#### **NRP78 (« COVID-19 ») Science, implementation, Communication**

GARDEN 3ABC

Chairs : Gilbert Greub, Lausanne; Marcel Salathé, Lausanne

- 14.00-14.20** **Experience-based recommendations: questioning science-policy relations through the lens of the SociocoViD Implementation project**  
M-03 – Nolwenn Bühler, Lausanne
- 14.20-14.40** – Michel Gilliet, Lausanne  
M-04
- 14.40-15.00** **New technology for large-scale SARS-CoV-2 serology**  
M-05 Sebastian Maerkl, Lausanne
- 15.00-15.20** **The COVID-COG project: Science, Communication, Implementation**  
M-06 – Julie Péron, Geneva
- 15.20-15.30** **Discussion**

\* Student paper

## 14.00-15.30

### SESSION 4

#### **NCCR Microbiomes**

**GARDEN 4ABC**

Chairs: Sara Mitri, Lausanne; Christian von Mering, Zurich

**14.00-14.30**

M-07

**Culturing and managing complex soil microbiomes**

Jan Roelof van der Meer, Lausanne

**14.30-14.45**

S-14\*

**Investigating bacterial interactions in miniature environments using picoliter-droplet cultivation** – Maxime Batsch, Lausanne

**14.45-15.00**

S-15\*/P-31\*

**Path to reproducible assembly of synthetic and semi-natural soil bacterial communities in soil growing systems**

Senka Causevic, Lausanne

**15.00-15.15**

S-16\*/P-32\*

**Monitoring of total and ESBL-producing *Escherichia coli* in influent of Swiss wastewater treatment plants**

Sheena Conforti, Dübendorf

**15.15-15.30**

S-17

**Isolation of *Candidatus Accumolibacter phosphatis* using microfluidic-based approaches** – Lukas Hemmerle, Lausanne

### SESSION 5

#### **NRP72**

**GARDEN 5ABC**

Chairs: Jean-Claude Piffaretti, Massagno; Joachim Frey, Bern

**14.00-14.30**

M-08

**Control Points to reduce spread of antibiotic resistance: A One-Health approach** – Andrea Endimiani, Bern

**14.30-14.45**

S-18\*

**Whole genome sequence-based characterization of human and animal MRSA from different veterinary and farm settings in Switzerland** – Javier Eduardo Fernandez, Bern

**14.45-15.00**

S-19\*

**In-vitro activity of aztreonam in combination with newly-developed  $\beta$ -lactamase inhibitors against Enterobacterales and *Pseudomonas aeruginosa* producing metallo- $\beta$ -lactamases**

Christophe Le Terrier, Fribourg

**15.00-15.15**

S-20\*

**Resistell nanomotion-based AST: an innovative technology to study tolerance in *Escherichia coli*** – Christèle Aubry, Lausanne

**15.15-15.30**

S-21

**Next-generation bacteriophages: new approaches for rapid diagnostics and efficient control of antibiotic-resistant pathogens** – Martin J. Loessner, Zurich

**15.30-15.45**

S-22

**Meta-omics provides new perspectives on resistomes of aquatic environments** – Helmut Bürgmann, Dübendorf

**15.30-16.00 Coffee break**

**EXHIBITION**

\* Student paper

## 16.00-17.30

### SESSION 6

#### **Clinical Microbiology – Panel PCRs**

AUDITORIUM C

Chairs : Andrea Zbinden, Zurich ; Gilbert Greub, Lausanne

**16.00-16.30** **Pro** – Nina Khanna, Basel  
M-09

**16.30-17.00** **Con** – Peter Keller, Bern  
M-10

**17.00-17.15** **Performance of the rapid molecular assay BioFire FilmArray Meningitis/Encephalitis for diagnosis of CNS infections: a three-year retrospective study** – Giorgia Caruana, Lausanne  
S-23

**17.15-17.30** **Characterization of the resistance pattern of Swiss MDR TB isolates by phenotypic drug susceptibility testing and genotypic resistance analysis over the last decade**  
S-24  
Bettina Schulthess, Zurich

### SESSION 7

#### **Molecular Microbiology – Bacterial signaling and quorum sensing**

GARDEN 2ABC

Chair: Sara Mitri, Lausanne

**16.00-16.30** **The different functions of cellular appendages in cyanobacterial behaviour** – Annegret Wilde, Freiburg (DE)  
M-11

**16.30-16.45** **Membrane vesicle-mediated bacterial communication of Legionella Pneumophila** – Mingzhen Fan, Zurich  
S-25

**16.45-17.00** **CcrM-mediated methylation of the multipartite genome of Agrobacterium tumefaciens promotes its replication**  
S-26  
Justine Collier, Lausanne

**17.00-17.15** **Heterogeneous single cell responses underlie host-pathogen signaling during pneumococcal infection**  
S-27  
Vikrant Minhas, Lausanne

**17.15-17.30** **Making of Zygotes: Fission Yeast Zygotic Development Is Regulated by a Facultative Component of P-Bodies**  
S-28\*  
Ayokunle Araoyinbo, Lausanne

\* Student paper



## 16.00-17.30

### SESSION 8

#### **NCCR Antiresist – M&E**

**GARDEN 3ABC**

Chairs: Linda Mueller, Nyon; Christoph Dehio, Basel

**16.00-16.30**

M-12

– John McKinney, Lausanne

**16.30-16.45**

S-29

**Establishing an in vitro lung tissue model to study colonization, virulence and drug treatment of lung infections at high temporal and spatial resolution** – Leoni Swart, Basel

**16.45-17.00**

S-30

**Pseudomonas aeruginosa contracts mucus to rapidly form biofilms in tissue-engineered human airways**

Tamara Rossy, Lausanne

**17.00-17.15**

S-31\*

**The pneumococcal essentialome under antibiotic-induced stress** – Bevika Sewgoolam, Lausanne

**17.15-17.30**

S-97

**Antimicrobial susceptibility in E. coli and Pasteurellaceae at the beginning and at the end of the fattening process in veal calves: comparing 'outdoor veal calf' and conventional operations**

Jens Becker, Bern

### SESSION 9

#### **Environmental Microbiology**

**GARDEN 4ABC**

Chairs: Pilar Junier, Neuchâtel; Jurg Enkerli, Zurich

**16.00-16.30**

M-13

**Consequences of shoving, sliding, and swimming on microbial range expansion** – David Johnson, Dübendorf

**16.30-16.45**

S-32\*

**Lysis by phages can help establish metabolic interactions in bacterial communities** – Emanuele Fara, Dübendorf

**16.45-17.00**

S-33

**Functional response of the aerobic granular sludge microbiome to a complexification of the synthetic wastewater**

Laetitia Cardona, Lausanne

**17.00-17.15**

S-34

**How BioEncounters at the microscale prime microbial interactions in the ocean** – Jonasz Slomka, Zurich

**17.15-17.30**

S-35

**Cross-feeding interactions shaped Rickettsiales genomic architectures along the parasite/free-living spectrum**

Adrian-Stefan Andrei, Zurich

\* Student paper

## 16.00-17.30

SESSION 10

### Joint Virology/NRP78

GARDEN 5ABC

Chairs : Isabella Eckerle, Geneva ; Volker Thiel, Bern

**16.00-16.30**

M-14

**Real-time to Real-life: The promise & utility of phylogenetics in pandemics** – Emma Hodcroft, Bern

**16.30-16.45**

S-36

**Distinct phenotype of SARS-CoV-2 Omicron BA.1 in human primary cells but no increased host range in cell lines of putative mammalian reservoir species** – Manel Essaidi-Laziosi, Geneva

**16.45-17.00**

S-37

**Deciphering the function of NSP1 ribosome binding during SARS-CoV-2 infection** – Silvio Steiner, Bern

**17.00-17.15**

S-38\*

**Analysis of the sequences of alpha, delta and omicron outbreaks in educational settings in Geneva** – Mathilde Bellon, Geneva

**17.15-17.30**

S-39

**Recoding of the SARS-CoV-2 genome generated a live-attenuated vaccine that induced full protection from COVID-19 in vivo** – Güliz Tuba Barut, Bern

**17.30-17.45 Short break**

EXHIBITION

**17.45-18.45**

### General assembly (Open to members only)

AUDITORIUM C

Chair: Jacques Schrenzel, Geneva

SSM Board Committee

**19.00**

**Aperitif**

EXHIBITION

**20.00**

**END OF DAY 1**

\* Student paper

**08.00 Registration**

**FOYER**

**08.45-09.30**

**Keynote lecture**

**AUDITORIUM C**

Chairs : Alix Coste, Lausanne; Markus Kuenzler, Zurich

K-02

**Drug resistance in fungal pathogens from the clinic and the environment**

Dominique Sanglard, Lausanne

**09.30-10.00**

**Plenary posters 2**

**AUDITORIUM C**

Chair: Jérôme Gouttenoire, Lausanne

**09.30-09.33** Nanomotion technology with the help of machine learning allows for highly accurate classification of antibiotic susceptibility of various pathogens – Alexander Sturm, Muttenz  
PF/P-06

**09.35-09.38** Assessment of cell tropism and evaluation of immune markers induced after in vitro rVSV-ZEBOV infection in cell lines and human primary cells – Catia Alvarez, Geneva  
PF/P-07

**09.40-09.43** The GENeva PHage (GENPH) biobank against carbapenem-resistant and hypervirulent *Klebsiella pneumoniae*  
PF/P-08  
Diego Andrey, Geneva

**09.45-09.48** Tick-borne encephalitis virus nonstructural protein 1 IgG enzyme-linked immunosorbent assay for differentiating infection versus vaccination antibody Response  
PF/P-09  
Rahel Ackermann-Gäumann, la Chaux-de-Fonds

**09.50-09.53** Mechanisms of waterborne virus removal by protists: toward biocontrol of viral pathogens? – Margot Olive, Dübendorf  
PF/P-10

**09.55-09.58** Prediction of SARS-CoV-2 infection clusters by geographic analysis and based on viral genome sequence  
PF/P-11\*  
Yangji Choi, Lausanne

**10.00-10.30 Coffee break**

**EXHIBITION**

\* Student paper

## 10.30-12.00

### SESSION 11

#### **Clinical Microbiology – One Health**

AUDITORIUM C

Chairs: Claire Bertelli, Lausanne; Adrian Egli, Zurich

**10.30-11.00**

M-15

**Animals and dissemination of clinically important antimicrobial resistance: tracking carbapenemases** – Vincent Perreten, Bern

**11.00-11.30**

M-16

**Clinical Microbiology – One Health**

Anders Rhod Larsen, Copenhagen (DK)

**11.30-11.45**

S-40\*/P33\*

**The faecal microbiome of agropastoral children in the Somali Region of Ethiopia is significantly different from other traditional and industrialized communities** – Simon Yersin, Lausanne

**11.45-12.00**

S-41

**Multi-country outbreak of monophasic Salmonella Typhimurium sequence type (ST) 34 linked to chocolate products – the Swiss situation** – Magdalena Nüesch-Inderbilen, Zurich

### SESSION 12

#### **Lay Communication**

GARDEN 2ABC

Chairs: Pilar Junier, Neuchâtel; Massimo Caine, Geneva

**10.30-11.00**

M-17

**The International Microbiology Literacy Initiative**

Kenneth Timmis, Braunschweig (DE)

**11.00-11.15**

S-42

**Microbes go to school - Enhancing microbiology literacy through service-learning** – Saskia Bindschedler, Neuchatel

**11.15-11.30**

S-43\*

**Lay communication on the risk of tick-borne diseases: a comparative study of the Swiss media landscape from 2000 to 2020** – Carole Kebbi Beghdadi, Lausanne

**11.30-11.45**

S-44\*

**MyKrobs: a tool to teach medical students**

Antonios Kritikos, Lausanne

**11.45-12.00**

**Round Table**

\* Student paper

## 10.30-12.00

### SESSION 13

#### Fundamental Mycology

GARDEN 3ABC

Chair: Claudio de Virgilio, Fribourg

- 10.30-11.00** **Mechanisms of cell-cell fusion** – Sophie Martin, Lausanne  
M-18
- 11.00-11.15** **Heterologous expression of *Hanseniaspora* sp. transporters in *Saccharomyces cerevisiae* identifies a pantothenate symporter that is used to obtain this vitamin from other organisms**  
S-45  
Maria Paula Rueda, Agroscope
- 11.15-11.30** **The G-patch protein Tma23 is a novel Prp43 cofactor involved in early pre-60S Assembly** – Alfonso Méndez-Godoy, Fribourg  
S-46
- 11.30-11.45** **Exploring complex genetic suppression interactions**  
S-47  
Betül Ünlü, Lausanne
- 11.45-12.00** **Fungal drops: a novel method for the observation of fungal modularity and Coordination** – Matteo Buffi, Neuchâtel  
S-48\*

### SESSION 14

#### Virology

GARDEN 4ABC

Chairs: Caroline Tapparel, Geneva; Jérôme Gouttenoire, Lausanne

- 10.30-11.00** **Ultrastructure of influenza virus vRNP assembly at the plasma membrane** – Yohei Yamauchi, Zurich  
M-19
- 11.00-11.15** **Characterization of novel candidate factors impacting HIV life cycle** – Beril Mersinoglu, Lausanne  
S-49\*
- 11.15-11.30** **Characterization of the innate immune response in the respiratory epithelium of human, porcine, and bovine during influenza virus infection** – Laura Ialoli, Bern  
S-50\*
- 11.30-11.45** **A genome-wide CRISPR/Cas9 screen identifies a role for early endosomes in Hepatitis E virus RNA replication**  
S-51  
Noémie Oechslin, Lausanne
- 11.45-12.00** **Generation and characterization of a fluorescent Influenza D reporter virus** – Lukas Probst, Bern  
S-52\*

\* Student paper

## 10.30-12.00

SESSION 15

### **NCCR Microbiomes – Modelling and assessing microbiomes**

GARDEN 5ABC

Chairs : Yolanda Schaerli, Lausanne ; Shinichi Sunagawa, Zurich

**10.30-11.00**

M-20

**The Microbe Atlas: A global survey of microbial diversity**

Christian von Mering, Zurich

**11.00-11.15**

S-53\*

**Towards taxon-specific growth prediction in microbial communities by metatranscriptomics** – Melanie Stäubli, Zurich

**11.15-11.30**

S-54\*

**Linking spatial self-organization and environmental change in expanding microbial communities** – Philipp Tandler, Zurich

**11.30-11.45**

S-55

**Probing interactomes of bee, mice & soil communities: what controls diversity and growth?** – Sebastian Burz, Lausanne

**11.45-11.48**

PF/P-12\*

**Accumulibacter populations coexisting in a phosphorus-removing bioreactor show differences in gene expression**

Pilar Natalia Rodilla Ramírez, Lausanne

**11.50-11.53**

PF/P-13

**Controlling species within a small bacterial synthetic community**

Andrea Dos Santos, Lausanne

**11.55-11.58**

PF/P-14

**Using 'OMICS' to investigate molecular mechanisms helping predatory bacterium *Bdellovibrio bacteriovorus* to escape exhausted bacterial prey remnants** – Simona Huwiler, Zurich

## 12.00-12.45

### **Exclusive symposium by RUWAG**

AUDITORIUM C



### **THE MICROBIOLOGY LABORATORY OF THE FUTURE**

Chair: Oliver Nolte, Zentrum für Labormedizin, St.Gallen

**12.00-12.20**

M-21

**Fully-automated EUCAST rapid antimicrobial susceptibility testing (RAST) from positive blood cultures: diagnostic accuracy and implementation** – Abdessalam Cherkaoui, HUG, Geneva

**12.20-12.45**

M-22

**Artificial Intelligence in Laboratory Data Management**

Bart Gordts, MD, clinical microbiologist and independant clinical consultant for Copan WASP (IT) and Dialex Biomedica (BE)

\* Student paper

**12.45-14.00 Lunch break & Poster session (even numbers) EXHIBITION & POSTER AREA**

## 14.00-15.30

### SESSION 16 **Role of the Swiss Society for Microbiology in Clinical Microbiology** AUDITORIUM C

Chairs : Gilbert Greub, Lausanne (Past president 2016-2018) ;  
Jacques Schrenzel, Geneva (President 2022-2024)

**14.00-14.30** **The CCCM-SSM during the SARS-CoV-2-pandemics :  
validation of tests, EQA, FAQ and guidelines**  
M-23  
– Adrian Egli, Zurich (Chair of the section clinical microbiology)

**14.30-15.30** **Clinical diagnostic microbiology, then and now ?  
The view of (past) SSM presidents**

**14.30-14.40** Raymond Auckenthaler, Geneva

**14.40-14.50** Jacques Bille, Lausanne  
M-24

**14.50-15.00** Jean-Claude Piffaretti, Massagno

**15.00-15.10** Gilbert Greub, Lausanne  
M-25

**15.10-15.20** Jacques Schrenzel, Geneva

**15.20-15.30** **Questions**

## 14.00-15.30

### SESSION 17

#### **Molecular Microbiology – Bacterial secretion and transport**

**GARDEN 2ABC**

Chairs: Silvia Ardissonne, Lausanne; Joerg Jores, Bern

**14.00-14.30**

M-26

**Molecular mechanisms of mycobacterial siderophore import**

Markus Seeger, Zurich

**14.30-15.00**

M-27

**The molecular basis of FimT-mediated DNA uptake during natural transformation of bacteria** – Manuela Hospenthal, Zurich

**15.00-15.15**

S-56\*

**Molecular mechanism of ixotrophy behavior in a predatory marine bacterium** – Yun-Wie Lien, Zurich

**15.15-15.30**

S-57

**Antibiotic-tolerant reservoirs of Salmonella are determined by bacterial secretion machinery** – Joshua Newson, Zurich

### SESSION 18

#### **Environmental Microbiology**

**GARDEN 3ABC**

Chair: Mauro Tonolla, Mendrisio

**14.00-14.30**

M-28

**Artificial microbial consortia for the conversion of lignocellulosic biomass or CO<sub>2</sub> to chemicals** – Michael Studer, Zollikofen

**14.30-14.45**

S-58\*

**Probiotic control of Legionella in building plumbing systems: a two-sided approach towards identifying and characterising antagonistic bacteria** – Alessio Cavallaro, Dübendorf

**14.45-15.00**

S-59\*

**Ammoniphilus oxalaticus: oxalotrophy and biocontrol of fungal pathogens** – Aislinn Estoppey, Neuchâtel

**15.00-15.15**

S-60

**Pest insect biological control based on microbial communities of pathogen suppressive soils** – Pilar Vesga, Lausanne

**15.15-15.30**

S-61\*

**The potential of Actinomycetes to control potato late blight**  
Ola Abdelrahman, Fribourg

\* Student paper



## 14.00-15.30

### SESSION 19

#### **NCCR Microbiomes**

**GARDEN 4ABC**

Chair: Sigfried Hapfelmeier, Bern

**14.00-14.30**

M-29

**NCCR Microbiomes Consortium** – Emma Slack, Zurich

**14.30-14.45**

S-62\*

**Metagenomics analysis of gut microbiota in COVID-19 patients**

Yangji Choi, Lausanne

**14.45-14.48**

PF/P-15

**Uncoupling of invasive bacterial mucosal immunogenicity from pathogenicity** – Eileen Haring, Bern

**14.50-14.53**

PF/P-16\*

**Microbiota profiling by metagenomics and flow cytometry on Clostridioides difficile infection patients**

Elena Montenegro Borbolla, Lausanne

**14.55-14.58**

PF/P-17\*

**Microbiota and host response in Salmonella Typhimurium infection (mistic)** – Carmen Chen, Lausanne

**15.00-15.15**

S-63\*

**Directly probing microbe-microbe interactions in Clostridioides difficile infection** – Luca Beldi, Bern

**15.15-15.30**

S-64

**Towards being specific with mucosal vaccines using biophysical clues from antibody-bacterial glycan interactions**

Milad Radiom, Zurich

### SESSION 20

#### **NCCR Antiresist – NA**

**GARDEN 5ABC**

Chair: Urs Jenal, Basel

**14.00-14.30**

M-30

**Digging through the Data: Computational Tools for Genome Mining and Antibiotic Discovery** – Nadine Ziemert, Tübingen (DE)

**14.30-14.45**

S-65

**Antibiotic tolerance in Pseudomonas aeruginosa generated by self-induced toxin-mediated interference with NAD metabolism**

Isabella Santi, Basel

**14.45-15.00**

S-66

**High-content screening identifies a critical role for P pili in early adhesion of uropathogenic Escherichia coli to bladder cells**

Thomas Simonet, Lausanne

**15.00-15.15**

S-67\*/P-34\*

**Phage parade exploits bacterial stress responses to kill antibiotic-tolerant cells** – Enea Maffei, Basel

**15.15-15.30**

S-68

**Targeting protein folding pathways and PBP2a stability to restore broad  $\beta$ -lactam sensitivity in methicillin resistant Staphylococcus aureus (MRSA)** – Mélanie Roch, Geneva

\* Student paper

15.30-16.00 Coffee break

EXHIBITION

16.00-17.30

SESSION 21

## Clinical Microbiology – Diagnostic challenges

AUDITORIUM C

Chairs : Bettina Schulthess, Zurich ; Damien Jacot, Lausanne

16.00-16.30

M-31

**Diagnostic of lyme borreliosis: the laboratory challenge**

Reto Lienhard, La Chaux-de-Fonds

16.30-16.45

quizz

**Metagenomic results – how to trust them ?**

Jacques Schrenzel, Geneva

16.45-17.00

M-32

**Diagnostic challenges, rare, but dangerous**

Adrian Egli, Zurich

17.00-17.15

M-33

**Clinical cases & quizz**

Alix Coste, Lausanne

17.15-17.30

S-69

**Suspected infection with emerging *Rickettsia africae* in a South African returnee from Switzerland** – Dominique Hilti, Buchs

SESSION 22

## Molecular Microbiology – Cellular microbiology

GARDEN 2ABC

Chair: Jan-Willem Veening, Lausanne

16.00-16.30

M-34

**Intracellular niche formation of entero-invasive bacterial pathogens** – Jost Enninga, Paris (FR)

16.30-16.45

S-70

**Iron starvation induces functional type II toxin-antitoxin modules in *Waddlia Chondrophila*** – Silvia Ardissonne, Lausanne

16.45-17.00

S-71\*

**The Legionella-driven PtdIns(4)P gradient at LCV-ER membrane contact sites promotes Vap-, OSBP-, and Sac1-dependent pathogen vacuole remodeling** – Simone Vormittag, Zurich

17.00-17.15

S-72

**Mechanism of cyclic- $\beta$ -glucan export by ABC transporter Cgt of *Brucella*** – Jaroslaw Sedzicki, Basel

17.15-17.30

S-73\*/P-35\*

**Secretion of IL-1 $\beta$  by macrophages infected with *M. tuberculosis* enhances bacterial control in bystander macrophages**  
Ophélie Rutschmann, Lausanne

\* Student paper

## 16.00-17.30

### SESSION 23

#### Environmental Mycology

GARDEN 3ABC

Chair: Jurg Enkerli, Zurich

#### 16.00-16.30

M-35

**Biodiversity of soil fungi – from communities to species and strains** – Johanna Mayerhofer, Zurich

#### 16.30-16.45

S-74

**Food authenticity: a case study of species determination in *Morchella* mushrooms using a centroid-based approach**  
Melissa Cravero, Neuchâtel

#### 16.45-17.00

S-75

**The first genome-wide association performed on the traits of a mutualist, mycorrhizal fungus** – Erica McGale, Lausanne

#### 17.00-17.15

S-76

**Inhibition potential of beehives-associated bacterial strains against *Aspergillus Spp*** – Fabio Palmieri, Neuchâtel

#### 17.15-17.30

S-77\*

**Do the insect pathogenic fungal species *Beauveria brongniartii* and *B. pseudobassiana* occupy different ecological niches?**  
Chiara Pedrazzini, Agroscope

### SESSION 24

#### Early Career – Microbiologists of tomorrow

GARDEN 4ABC

Chairs: Hanna Marti, Zurich; Florian Tagini, Lausanne

#### 16.00-16.15

M-36

– Philipp Engel, Lausanne

#### 16.15-16.30

M-37

– Danuta Cichocka, Muttenz/Lausanne

#### 16.30-16.45

M-38

**From the bench to the public arena** – Massimo Caine, Geneva

#### 16.45-17.00

M-39

– Eleonora Ciarlo, Lausanne

#### 17.00-17.15

M-40

– Adrian Egli, Zurich

#### 17.15-17.30

**Open discussion**

\* Student paper

## 16.00-17.30

SESSION 25

### NCCR Antiresist – Tech

GARDEN 5ABC

Chairs : Nina Khanna, Basel; Marek Basler, Basel

**16.00-16.30**

M-41

**CRISPRi meets metabolomics: a platform for rapid functional annotation of compound libraries** – Mattia Zampieri, Zurich

**16.30-17.00**

M-42

**Dissecting the interactions between commonly used drugs and the human gut microbiota** – Lisa Maier, Tübingen (DE)

**17.00-17.15**

S-78

**Developing CRISPRi-seq for clinical *S. pneumoniae* strains to understand dissemination during infection**

Amelieke Cremers, Lausanne

**17.15-17.30**

S-79\*/P-36\*

**Targeting the essential BAM complex with nanobodies to identify bio-antibiotics active against gram-negative ESKAPE pathogens** – Johanna Buchheit, Zurich

**19.00-night**

### Aperitif – Gala Dinner

SWISS TECH CONVENTION CENTER

Celebration of the 80<sup>th</sup> anniversary  
of the Swiss Society for Microbiology



**END OF DAY 2**

\* Student paper

**08.00 Registration**

**FOYER**

**08.45-09.30**

**Keynote lecture**

**AUDITORIUM C**

Chair: Christof Holliger, Lausanne

K-03

**Assessing the world ocean microbiome**

Shinichi Sunagawa, Zurich

**09.30-10.00**

**Plenary posters 3**

**AUDITORIUM C**

Chairs: tbd

**09.30-09.33**

PF/P-18

**Low sensitivity of POC-PCR for Streptococcus agalactiae carriage screening in pregnant women**

Rahel Wampfler, Niederwangen

**09.35-09.38**

PF/P-19\*

**Secretor status association analysis with pneumococcal carriage in infants – Katharina Bacher, Bern**

**09.40-09.43**

PF/P-20

**The drawback of false positive MRSA results with rapid PCR screening during an outbreak – Dominique Blanc, Lausanne**

**09.45-09.48**

PF/P-21

**Pathogen prevalence in ticks parasitizing humans**

Aurélien Scherler, Neuchâtel

**09.50-09.53**

PF/P-22\*

**Deimmunization of peptidoglycan hydrolases for therapeutic treatment against systemic S. aureus infections**

Léa Zinsli, Zurich

**09.55-09.58**

PF/P-23

**16S amplicon-based metagenomics for pathogen detection in routine diagnostic clinical microbiology**

Sedreh Nassirnia, Lausanne

**10.00-10.30 Coffee break**

**EXHIBITION**

\* Student paper

## 10.30-12.00

### SESSION 26

#### **Clinical Microbiology – Next generation sequencing – what is new for diagnostics**

AUDITORIUM C

Chairs: Helena Seth-Smith, Zurich; Jacques Schrenzel, Geneva

**10.30-11.00**

M-43

**Microbiome and mycobiome analysis in atopic dermatitis**

– Philipp Bosshard, Zurich

**11.00-11.15**

S-80

**Nanopore selective sequencing of SARS-CoV-2 genomes in clinical samples** – Alban Ramette, Bern

**11.15-11.30**

S-81

**Comparison of Nanopore R10.4 long-read versus Illumina short-read whole-genome sequencing for *Klebsiella pneumoniae* in silico typing performances** – Diego Andrey, Geneva

**11.30-11.45**

S-82\*

**zDB: bacterial comparative genomics made easy**

Alessia Carrara, Lausanne

**11.45-12.00**

S-83

**Epidemiological links and antimicrobial resistance of clinical *Salmonella enterica* ST198 isolates: a nationwide microbial population genomic study in Switzerland** – Michael Biggel, Zurich

### SESSION 27

#### **Environmental Microbiology**

GARDEN 2ABC

Chairs: Tamar Kohn, Lausanne; Leo Eberl, Zurich

**10.30-11.00**

M-44

**The evolution and ecology of siderophore bioremediation in soil microbes** – Siobhan O'Brien, Dublin (IE)

**11.00-11.15**

S-84\*

**Lipopolysaccharides as double-edge swords in phage tail-like particles mediated kin competition in environmental *Pseudomonas*** – Clara Margot Heiman, Lausanne

**11.15-11.30**

S-85

**Genome resolved metagenomics reveals the impact of AMR strain inoculation and antibiotic treatment in complex microbiota in vitro** – Florentin Constancias, Zurich

**11.30-11.45**

S-86\*/P-37\*

**Targeted Genome Mining Reveals the Psychrophilic *Clostridium estertheticum* Complex as a Potential Source for Novel Bacteriocins, Including Cesiin A** – Joseph Wambui, Zurich

**11.45-12.00**

S-87

**The role of skin bacterial volatiles in host finding by mosquitoes and biting midges and implications for their control**  
Niels Verhulst, Zurich

\* Student paper

## 10.30-12.00

### SESSION 28

#### **Virology**

**GARDEN 3ABC**

Chairs: Valeria Cagno, Lausanne; Angela Ciuffi, Lausanne

#### **10.30-11.00**

M-45

**Single cell biology uncovering mechanisms in virus infection variability** – Urs Greber, Zurich

#### **11.00-11.15**

S-88

**Recombinant Hepatitis E Viruses Harboring a Split Luciferase Tag in the ORF2 Protein** – Maliki Ankavay, Lausanne

#### **11.15-11.30**

S-89

**A single respiratory tract infection early in life reroutes healthy microbiome development and affects adult metabolism in a preclinical animal model** – Mirco Schmolke, Geneva

#### **11.30-11.45**

S-90

**Inactivation mechanisms of influenza A virus within the micro-environment of expiratory bioaerosols identified by whole virus mass-spectrometry** – Shannon David, Lausanne

#### **11.45-12.00**

S-91\*

**An RNA replicon system to investigate promising inhibitors of feline infectious peritonitis coronavirus** – Kimberly Schmied, Bern

### SESSION 29

#### **NCCR Microbiomes**

**GARDEN 4ABC**

Chairs: Pascale Vonaesch, Lausanne; Philipp Engel, Lausanne

#### **10.30-11.00**

M-46

– Alyson Hockenberry, Zurich

#### **11.00-11.15**

S-92\*

**Enhancing phage therapeutics through in situ production and release of heterologous antimicrobial effectors**

Jiemin Du, Zurich

#### **11.15-11.30**

S-93\*/P-38\*

**Multimomics profiling of pneumococcal stress responses**

Vincent de Bakker, Lausanne

#### **11.30-11.45**

S-94\*

**The maintenance of Salmonella virulence is promoted by the gut microbiota during mild colitis in mice** – Ersin Gül, Zurich

#### **11.45-12.00**

S-95

**Wheat rhizosphere microbiomes obtained throughout reinoculation cycles from two soils select a similar microbiota**

Daniel Garrido-Sanz, Lausanne

#### **12.00-12.15**

S-96

**Microbe-microbe communication in the plant microbiota and its impact on plant health** – Laure Weisskopf, Fribourg

\* Student paper

## 10.30-12.00

SESSION 30

### Joint NRP/NCCR Antiresist

GARDEN 5ABC

Chair: Dirk Bumann, Basel

**10.30-11.00**

M-47

**The outer membrane insertase as a target for novel antibiotics**

Sebastian Hiller, Basel

**11.00-11.15**

S-98

**ariations of intrinsic cell oxidation cause coenzyme A shortage leading to antibiotic tolerance in a human pathogen**

Pablo Manfredi, Basel

**11.15-11.30**

S-99

**Genome stability during serial sub-culturing in hyperepidemic multidrug-resistant *Klebsiella pneumoniae* and *Escherichia coli***

Pablo Manfredi, Basel

## 12.00-12.35

### Plenary posters 4

AUDITORIUM C

Chair: Emma Hodcroft, Bern

**12.00-12.03**

PF/P-24

**Preliminary results from a prospective, observational, cross-sectional, single-arm study investigating nanomotion-based technology (Resistell AST) for rapid antibiotic susceptibility testing for Gram-negative bacteremia** – Giorgia Caruana, Lausanne

**12.05-12.08**

PF/P-25

**Chlamydia suis undergoes interclade recombination, promoting Tet-island exchange** – Hanna Marti, Zürich

**12.10-12.13**

PF/P-26

**A bovine blood-based ex vivo platform to dissect host-pathogen interactions** – Thomas Démoulin, Bern

**12.15-12.18**

PF/P-27\*

**Bacterial genes required for tolerance to reactive oxygen species: from host defense to potential antibiotic targets**  
Myriam Roth, Geneva

**12.20-12.23**

PF/P-28\*

**The role of large fission GTPases for *Legionella pneumophila* infection** – Ana Katic, Zurich

**12.25-12.28**

PF/P-29

**Photodynamic therapy using 5-ALA and daylight for prevention of periprosthetic joint infections** – Julia Prinz, Zurich

**12.30-12.33**

PF/P-30\*

**Establishment of a novel and rapid selective whole genome amplification and sequencing protocol for African Swine Fever Virus** – Matthias Licheri, Bern

\* Student paper



12.45-14.00 Lunch break & Poster session (odd numbers) EXHIBITION & POSTER AREA

## 14.00-15.30

SESSION 31

### Early Career – Journal Club Challenge

AUDITORIUM C

Chairs : Florian Tagini, Lausanne ; Hanna Marti, Zurich

**14.00-14.05** Introduction

**14.05-14.15** Glycolytic reprogramming in *Salmonella* counters NOX2-mediated dissipation of  $\Delta\text{pH}$ , *Nature Communications*

S-100\*

Myriam Roth, Geneva

**14.15-14.25** #Proinflammatory CD20 + T cells contribute to CNS-directed autoimmunity, *Science translational Medicine*

S-101

Sudharshana Sundaresan, Zurich

**14.25-14.35** Clinical targeting of HIV capsid protein with a long-acting small molecule, *Nature* – Grégory Mathez, Lausanne

S-102\*

**14.35-14.45** Pathways for horizontal gene transfer in bacteria revealed by a global map of their plasmids, *Nature Communications*

S-103\*

Alessia Carrara, Lausanne

**14.45-14.55** Mass-immigration determines the assembly of activated sludge microbial communities, *PNAS*

S-104\*

Pilar Natalia Rodilla Ramírez, Lausanne

**14.55-15.05** Caloric restriction disrupts the microbiota and colonization resistance, *Nature* – Sedreh Nassirnia, Lausanne

S-105\*

**15.05-15.15** Age and the aging process significantly alter the small bowel microbiome, *Cell Reports*

S-106\*

Elena Montenegro Borbolla, Lausanne

**15.15-15.30** Closure and award

\* Student paper

## 14.00-15.30

### SESSION 32

## **Molecular Microbiology – Bacteriophages and Horizontal gene transfer**

GARDEN 2ABC

Chair: Grégory Resch, Lausanne

- 14.00-14.30** **No need to catch 'em all: Systematic exploration of phage-host interactions with the BASEL collection** – Alexander Harms, Basel  
M-48
- 14.30-15.00** **Biophysics and modeling of R-type pyocin contraction**  
M-49  
Petr Leiman, Galveston (US)
- 15.00-15.15** **Investigating the transcription activation and partitioning roles of the bi-functional BisD protein of the integrative and conjugative element ICEclc** – Nicolas Carraro, Lausanne  
S-107
- 15.15-15.30** **Phage therapy to exclude multidrug-resistant encapsulated pathogenic *Escherichia coli* from the gut**  
S-108\*  
Louise Larsson, Zurich

### SESSION 33

## **Medical Mycology**

GARDEN 3ABC

Chairs: Salomé Leibundgut-Landmann, Zurich  
Frédéric Lamoth, Lausanne

- 14.00-14.30** **Unlocking the Mycobiota: Fungal Reservoirs, Drug Resistance, and Clinical Outcomes** – Tobias Hohl, New York (US)  
M-50
- 14.30-14.45** **Gene repertoires of the *Pneumocystis jirovecii* major surface antigen within infected patients from different geographical locations** – Caroline Meier, Lausanne  
S-109\*
- 14.45-15.00** **Card9 and MyD88 differentially regulate IL-17-producing T cell subsets in the *Malassezia*-colonized skin** – Meret Tuor, Zurich  
S-110\*
- 15.00-15.15** **Fungal Testing Tools to Diagnose Invasive Fungal Infections in Allogeneic Hematopoietic Cell Transplant Recipients between 2010 and 2019** – Arnaud Riat, Geneva  
S-111
- 15.15-15.30** **Adaptation of the Micronaut-AM test for *Aspergillus* spp. Antifongigram** – Melissa Frund, Lausanne  
S-112

\* Student paper

## 14.00-15.30

SESSION 34

### Environmental Microbiology

GARDEN 4ABC

Chairs : Johanna Mayerhofer, Zurich ;  
Jan Roelof van der Meer, Lausanne

**14.00-14.30**

M-51

**pH control of indoor air as a strategy to reduce the transmission of respiratory viruses** – Tamar Kohn, Lausanne

**14.30-14.45**

S-113

**It takes two times two to tango – cryoEM structure resolution of the membrane- bound tetrachloroethene reductive dehalogenase complex** – Julien Maillard, Lausanne

**14.45-15.00**

S-114

**Viral inactivation by quaternary ammonium compounds: A systematic review** – Anne Vescovi, Dübendorf

**15.00-15.15**

S-115\*

**Intracellular sulphur globules guide bacterial gravitaxis in dynamic chemical gradients** – Francesco Di Nezio, Geneva

**15.15-15.30**

S-116

**Bacterial proteolytic enzymes as biological scissors in the fate of enteroviruses in natural ecosystems**  
Marie-Hélène Corre, Lausanne

## 15.30-16.00 Coffee break

EXHIBITION

**16.00-16.15**

### SSM Awards

AUDITORIUM C

Pilar Junier, Neuchâtel ; Jacques Schrenzel, Geneva

**SSM Encouragement Award 2022**

**SSM PhD Award 2022**

**Poster Awards**

## 16.15-17.00

### Keynote lecture

AUDITORIUM C

Chairs : Alexandra Trkola, Zurich ; Volker Thiel, Bern

K-04

**Viruses emerging in a crisis-stricken world – challenges in prevention and preparedness**

Isabella Eckerle, Geneva

**17.00**

**END OF THE SSM ANNUAL MEETING 2022**

\* Student paper

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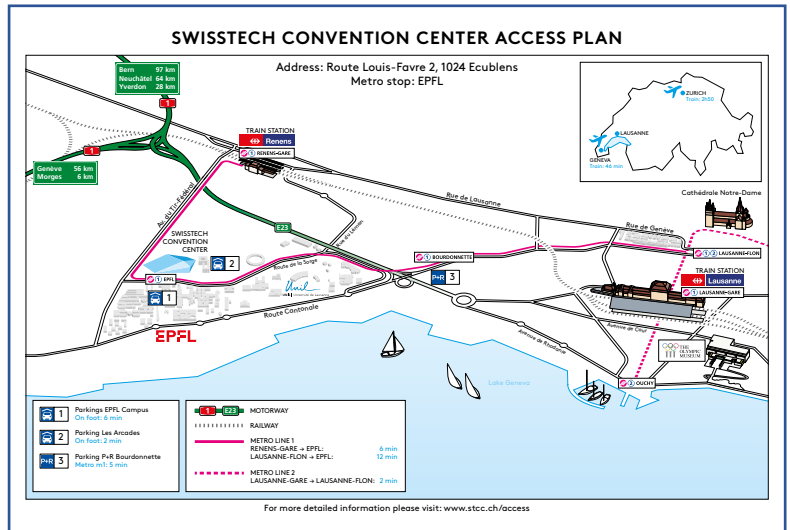
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## Venue

SwissTech Convention Center, Quartier Nord EPFL

Rue Louis Favre 2, 1024 Ecublens

[www.stcc.ch](http://www.stcc.ch)

## Plenary rooms

Auditorium C (Foyer Cloud area – level L2)

Garden 2ABC, Garden 3ABC, Garden 4ABC, Garden 5ABC

(Garden area – level L0)

Exhibition, catering and posters (Garden area – level L0)

## Access by public transport

Access from Lausanne station

Metro M2 from Lausanne Gare to Lausanne Flon

Metro M1 from Lausanne Flon to EPFL

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