2018 SSM annual meeting will take place in Lausanne from Tuesday 28th till Thursday 30th of August.

Attend lectures by experts in:
- clinical microbiology
- clinical bioinformatics
- antibiotic resistance
- cell microbiology
- prokaryotic biology
- environmental microbiology
- virology
- mycology
- parasites
- evolution
- lay communication
The cobas® Liat® System

- Inf A/B
- Inf A/B/RSV
- StrepA
- C. difficile
- MRSA/SA
- B. pertussis*

* in development

Table of content

<table>
<thead>
<tr>
<th>Members</th>
<th>4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invitation word</td>
<td>5</td>
</tr>
<tr>
<td>General information</td>
<td>6</td>
</tr>
<tr>
<td>Program at a glance</td>
<td>7-9</td>
</tr>
<tr>
<td>Program 28.08.18 – SSM_SCNAT Sponsored Satellite Symposia</td>
<td>10-17</td>
</tr>
<tr>
<td>SSM Opening Sessions &amp; General Assembly – 28.08.18</td>
<td>18</td>
</tr>
<tr>
<td>Program 29.08.18 &amp; Olympic Museum</td>
<td>19-27</td>
</tr>
<tr>
<td>Program 30.08.18</td>
<td>28-34</td>
</tr>
<tr>
<td>Notes</td>
<td>35-36</td>
</tr>
<tr>
<td>Location</td>
<td>37</td>
</tr>
<tr>
<td>Sponsors</td>
<td>38-39</td>
</tr>
</tbody>
</table>

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Dear Colleagues,

The Swiss Society for Microbiology will organize its annual meeting in Lausanne from 28th to 30th August 2018. During 3 days, you will enjoy interesting invited lectures given by experts in the field on a variety of topics related to microbiology, including clinical microbiology, clinical bioinformatics, antibiotic resistance, cell microbiology, prokaryotic biology, environmental microbiology, virology, mycology, parasites, evolution and lay communication.

In addition, specific LS2 NRP72 and 3R sessions have been organized… Thus, whatever your field and your background, for sure you will find the science you are looking for in Lausanne during these 3 days.

Moreover, you will have the opportunity to visit the olympic museum before the gala dinner that will take place there with a beautiful lake view.

I hope to see all of you at the 2018 SSM Opening session.

Prof. Gilbert Greub
President of the Swiss Society for Microbiology
General information

Venue
University Hospital of Lausanne, CHUV – Auditores
Rue du Bugnon 46, CH-1011 Lausanne

Registration
online on www.meeting-com.ch/Conferences & Meetings/2018
or to the Congress Office Management as below

Congress office management
Meeting.com Sàrl Congress Organisation
Rue des Pâquis 1 • PO box 100
CH-1033 Cheseaux-sur-Lausanne
T +41 (0)21 312 92 61 • F +41 (0)21 312 92 63
info@meeting-com.ch

Submissions of abstracts
online on www.ssm2018.exordo.com
handled by the Congress Office Management. All information or requirements
on the above-mentioned address

Contest “Engage your Audience!”
The contest “Engage your Audience!” allows young researchers to present
their research in front of their peers, using a simple and plain register. To do
so, they will have only three minutes available! In order to participate to the
contest applicants should be pursuing their research as PhD student

Credits in demand to the SSM
Tuesday 28.08.18 6 credits
Wednesday 29.08.18 7 credits
Tuesday 30.08.18 6 credits

Program at a glance

Tuesday, August 28, 2018

From 08.00 Registration at the welcome desk in the Foyer

10.00-11.30 CM 1 – Metagenomics CÉSAR ROUX
EM 1 – Water safety and wastewater ALEXANDRE YERSIN
PB 1 – Cell microbiology AUGUSTE TISSOT
MY 1 – Clinical mycology CHARLOTTE OLIVIER
VI 1 – Virus-host interaction MATHIAS MAYOR

11.45-12.45 Exclusive Symposium – BD CÉSAR ROUX

13.00-14.30 CM 2 – Mass spectrometry and other innovative
diagnostic microbiology approaches CÉSAR ROUX
EM 2 – Metagenomics ALEXANDRE YERSIN
PB 2 – Cell division AUGUSTE TISSOT
MY 2 – Environmental mycology CHARLOTTE OLIVIER
VI 2 – Emerging viruses MATHIAS MAYOR

14.30-15.00 Coffee break in the exhibition

15.00-16.30 CM 3 – Molecular diagnosis & genomics CÉSAR ROUX
EM 3 – Ecology & evolution ALEXANDRE YERSIN
PB 3 – Bacterial pathogenesis AUGUSTE TISSOT
MY 3 – Basic mycology CHARLOTTE OLIVIER
VI 3 – Viral tropism and virulence MATHIAS MAYOR

17.00-18.00 SSM General Assembly CÉSAR ROUX

18.00-19.00 Contest “Engage your Audience!” CÉSAR ROUX

19.00-19.30 Aperitif on the 20th floor
### Wednesday, August 29, 2018

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>From 08.00</td>
<td>Registration at the welcome desk in the Foyer</td>
</tr>
<tr>
<td>09.00-09.30</td>
<td>Keynote 1 – Julia Vorholt, Zurich</td>
</tr>
<tr>
<td>09.30-10.00</td>
<td>Keynote 2 – Abigail Bouwman, Zurich</td>
</tr>
<tr>
<td>10.00-10.30</td>
<td>Coffee break in the exhibition – Posters SSM</td>
</tr>
<tr>
<td>10.30-12.00</td>
<td>Session 1 – Modern diagnostic microbiology</td>
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<td>Session 2 – Microbial pathogenesis</td>
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<td>Session 3 – Antibiotic Resistance</td>
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<td>Session 4 – Phages</td>
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<td>Session 5 – Vector-borne diseases</td>
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<tr>
<td>12.00-14.00</td>
<td>Lunch break in the exhibition – Posters SSM</td>
</tr>
<tr>
<td>12.45-13.45</td>
<td>Exclusive Symposium – Maldi-Tof</td>
</tr>
<tr>
<td>14.00-15.30</td>
<td>Session 6 – Combating Antibiotic Resistance [NRP72]</td>
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<td>Session 7 – Microfluidics and innovative diagnostic tests</td>
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<td>Session 8 – Innate immunity</td>
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<td>Session 9 – Host pathogen interaction &amp; Invasion</td>
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<td>Session 10 – Intracellular bacteria</td>
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<tr>
<td>15.30-16.00</td>
<td>Coffee break in the exhibition – Posters SSM</td>
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<tr>
<td>16.00-17.30</td>
<td>Session 11 – Combating Antibiotic Resistance [NRP72]</td>
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<td>Session 12 – Lay communication</td>
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<td>Session 13 – Bacterial toxins &amp; Cell microbiology</td>
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<td>Session 14 – Microbial evolution</td>
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<td>Session 15 – Viral hepatitis</td>
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<tr>
<td>18.00-night</td>
<td>Olympic Museum: visit - aperitif - dinner</td>
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</table>

### Thursday, August 30, 2018

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>From 08.00</td>
<td>Registration at the welcome desk in the Foyer</td>
</tr>
<tr>
<td>09.00-09.30</td>
<td>Keynote 3 – Thomas Clavel, Aachen</td>
</tr>
<tr>
<td>09.30-10.00</td>
<td>Keynote 4 – Pilar Junier, Neuchâtel</td>
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<tr>
<td>10.00-10.30</td>
<td>Coffee break in the exhibition – Posters SSM</td>
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<tr>
<td>10.30-12.00</td>
<td>Session 16 – Metagenomics</td>
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<td>Session 17 – Cell surface structures in prokaryotes</td>
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<td>Session 18 – Zoonotic pathogen</td>
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<td>Session 19 – Microbial pathology &amp; immunity</td>
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<td>Session 20 – Mycobacteria</td>
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<tr>
<td>12.00-14.00</td>
<td>Lunch break in the exhibition – Posters SSM</td>
</tr>
<tr>
<td>12.45-13.45</td>
<td>Exclusive Symposium – Automatization</td>
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<tr>
<td>14.00-15.30</td>
<td>Session 21 – Diagnostic microbiology</td>
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<td>Session 22 – Environmental microbiology</td>
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<td>Session 23 – Microbial pathology &amp; Cell microbiology</td>
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<td>Session 24 – Bacterial genomics</td>
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<td>Session 25 – Innovative non mammalian models (3R session)</td>
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<tr>
<td>15.30-16.00</td>
<td>Coffee break in the exhibition – Posters SSM</td>
</tr>
<tr>
<td>16.00-16.30</td>
<td>SSM Poster Awards and “SSM career encouragement award”</td>
</tr>
<tr>
<td>16.30-17.00</td>
<td>Keynote 5 – Nicolas Fasel, Lausanne</td>
</tr>
<tr>
<td>17.00</td>
<td>End of Meeting</td>
</tr>
</tbody>
</table>
### Program Tuesday, August 28, 2018

#### 10.00-11.30

**CM1**  
**Metagenomics**  
Co-chairs: Helena Seth-Smith, Basel; Gilbert Greub, Lausanne

**10.00-10.30**  
**Clinical metagenomics: what’s new?**  
Jacques Schrenzel, Geneva (CH)

**Submitted talks**

- **CM-01**  
**MUCOVIB project: Intracellular bacteria and fastidious organisms among children with Cystic Fibrosis, an unknown association**  
– Laure Pittet, Geneva (CH)

- **CM-02**  
**Nasopharyngeal and middle-ear microbiota in children with acute otitis media**  
– Silvio Brugger, Zurich (CH)

- **CM-03**  
**16S rRNA metagenomics to investigate the death of immersed bodies: a preliminary study**  
– Valentin Scherz, Lausanne (CH)

- **CM-04**  
**Comparison of wgMLST (BioNumerics) vs mapping and core-genome SNPs approach for the epidemiological investigations of vancomycin-resistant Enterococcus faecium**  
– Dominique Blanc, Lausanne (CH)

**CM2**  
**Metagenomics**  
Co-chairs: Helena Seth-Smith, Basel; Gilbert Greub, Lausanne

**10.00-10.30**  
**Clinical metagenomics: what’s new?**  
Jacques Schrenzel, Geneva (CH)

**Submitted talks**

- **CM-01**  
**MUCOVIB project: Intracellular bacteria and fastidious organisms among children with Cystic Fibrosis, an unknown association**  
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– Dominique Blanc, Lausanne (CH)

**CM3**  
**Metagenomics**  
Co-chairs: Helena Seth-Smith, Basel; Gilbert Greub, Lausanne

**10.00-10.30**  
**Clinical metagenomics: what’s new?**  
Jacques Schrenzel, Geneva (CH)

**Submitted talks**

- **CM-01**  
**MUCOVIB project: Intracellular bacteria and fastidious organisms among children with Cystic Fibrosis, an unknown association**  
– Laure Pittet, Geneva (CH)

- **CM-02**  
**Nasopharyngeal and middle-ear microbiota in children with acute otitis media**  
– Silvio Brugger, Zurich (CH)

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– Valentin Scherz, Lausanne (CH)

- **CM-04**  
**Comparison of wgMLST (BioNumerics) vs mapping and core-genome SNPs approach for the epidemiological investigations of vancomycin-resistant Enterococcus faecium**  
– Dominique Blanc, Lausanne (CH)

**CM4**  
**Metagenomics**  
Co-chairs: Helena Seth-Smith, Basel; Gilbert Greub, Lausanne

**10.00-10.30**  
**Clinical metagenomics: what’s new?**  
Jacques Schrenzel, Geneva (CH)

**Submitted talks**

- **CM-01**  
**MUCOVIB project: Intracellular bacteria and fastidious organisms among children with Cystic Fibrosis, an unknown association**  
– Laure Pittet, Geneva (CH)

- **CM-02**  
**Nasopharyngeal and middle-ear microbiota in children with acute otitis media**  
– Silvio Brugger, Zurich (CH)

- **CM-03**  
**16S rRNA metagenomics to investigate the death of immersed bodies: a preliminary study**  
– Valentin Scherz, Lausanne (CH)

- **CM-04**  
**Comparison of wgMLST (BioNumerics) vs mapping and core-genome SNPs approach for the epidemiological investigations of vancomycin-resistant Enterococcus faecium**  
– Dominique Blanc, Lausanne (CH)

**CM5**  
**Metagenomics**  
Co-chairs: Helena Seth-Smith, Basel; Gilbert Greub, Lausanne

**10.00-10.30**  
**Clinical metagenomics: what’s new?**  
Jacques Schrenzel, Geneva (CH)

**Submitted talks**

- **CM-01**  
**MUCOVIB project: Intracellular bacteria and fastidious organisms among children with Cystic Fibrosis, an unknown association**  
– Laure Pittet, Geneva (CH)

- **CM-02**  
**Nasopharyngeal and middle-ear microbiota in children with acute otitis media**  
– Silvio Brugger, Zurich (CH)

- **CM-03**  
**16S rRNA metagenomics to investigate the death of immersed bodies: a preliminary study**  
– Valentin Scherz, Lausanne (CH)

- **CM-04**  
**Comparison of wgMLST (BioNumerics) vs mapping and core-genome SNPs approach for the epidemiological investigations of vancomycin-resistant Enterococcus faecium**  
– Dominique Blanc, Lausanne (CH)

**CM6**  
**Metagenomics**  
Co-chairs: Helena Seth-Smith, Basel; Gilbert Greub, Lausanne

**10.00-10.30**  
**Clinical metagenomics: what’s new?**  
Jacques Schrenzel, Geneva (CH)

**Submitted talks**

- **CM-01**  
**MUCOVIB project: Intracellular bacteria and fastidious organisms among children with Cystic Fibrosis, an unknown association**  
– Laure Pittet, Geneva (CH)

- **CM-02**  
**Nasopharyngeal and middle-ear microbiota in children with acute otitis media**  
– Silvio Brugger, Zurich (CH)

- **CM-03**  
**16S rRNA metagenomics to investigate the death of immersed bodies: a preliminary study**  
– Valentin Scherz, Lausanne (CH)

- **CM-04**  
**Comparison of wgMLST (BioNumerics) vs mapping and core-genome SNPs approach for the epidemiological investigations of vancomycin-resistant Enterococcus faecium**  
– Dominique Blanc, Lausanne (CH)

**CM7**  
**Metagenomics**  
Co-chairs: Helena Seth-Smith, Basel; Gilbert Greub, Lausanne

**10.00-10.30**  
**Clinical metagenomics: what’s new?**  
Jacques Schrenzel, Geneva (CH)

**Submitted talks**

- **CM-01**  
**MUCOVIB project: Intracellular bacteria and fastidious organisms among children with Cystic Fibrosis, an unknown association**  
– Laure Pittet, Geneva (CH)

- **CM-02**  
**Nasopharyngeal and middle-ear microbiota in children with acute otitis media**  
– Silvio Brugger, Zurich (CH)

- **CM-03**  
**16S rRNA metagenomics to investigate the death of immersed bodies: a preliminary study**  
– Valentin Scherz, Lausanne (CH)

- **CM-04**  
**Comparison of wgMLST (BioNumerics) vs mapping and core-genome SNPs approach for the epidemiological investigations of vancomycin-resistant Enterococcus faecium**  
– Dominique Blanc, Lausanne (CH)

**CM8**  
**Metagenomics**  
Co-chairs: Helena Seth-Smith, Basel; Gilbert Greub, Lausanne

**10.00-10.30**  
**Clinical metagenomics: what’s new?**  
Jacques Schrenzel, Geneva (CH)

**Submitted talks**

- **CM-01**  
**MUCOVIB project: Intracellular bacteria and fastidious organisms among children with Cystic Fibrosis, an unknown association**  
– Laure Pittet, Geneva (CH)

- **CM-02**  
**Nasopharyngeal and middle-ear microbiota in children with acute otitis media**  
– Silvio Brugger, Zurich (CH)

- **CM-03**  
**16S rRNA metagenomics to investigate the death of immersed bodies: a preliminary study**  
– Valentin Scherz, Lausanne (CH)

- **CM-04**  
**Comparison of wgMLST (BioNumerics) vs mapping and core-genome SNPs approach for the epidemiological investigations of vancomycin-resistant Enterococcus faecium**  
– Dominique Blanc, Lausanne (CH)
10.00-11.30
VI 1 Virus-host interaction
Mathias Mayor
Co-chairs: Caroline Tapparel-Vu, Geneva; Stefan Kunz, Lausanne

10.00-10.30 Immunity and Pathogenesis in Viral Infection
Daniel Pinschewer, Basel (CH)

Submitted talks
VI-01* Characterization of the epitranscriptomic landscape of HIV-infected cells – Sara Cristinelli, Lausanne (CH)
VI-02* Hantavirus entry into human respiratory epithelial cells involves macropinocytosis – Giulia Torriani, Lausanne (CH)
VI-03* Epidemiological analysis of enterovirus cases in Bern since 1998 – Carole Grädel, Bern (CH)

11.45-12.45
Exclusive Symposium on automation
César Roux
Co-chairs: Franziska Suter, Bern; Gilbert Greub, Lausanne

Lab Automation: Project and change management
Antony Croxatto, PhD, FAMH specialist in medical microbiology, CHUV, Lausanne (CH)

New trends in laboratory automation
John T. Page, Sr Director, Lab Automation & Software Engineering BD US

BD is one of the largest global medical technology companies in the world and is advancing the world of health by improving medical discovery, diagnostics and the delivery of care. The company supports the heroes on the frontlines of health care by developing innovative technology, services and solutions that help advance both clinical therapy for patients and clinical process for health care providers. BD and its 65,000 employees have a passion and commitment to help improve patient outcomes, improve the safety and efficiency of clinicians’ care delivery process, enable laboratory scientists to better diagnose disease and advance researchers’ capabilities to develop the next generation of diagnostics and therapeutics. BD has a presence in virtually every country and partners with organizations around the world to address some of the most challenging global health issues. By working in close collaboration with customers, BD can help enhance outcomes, lower costs, increase efficiencies, improve safety and expand access to health care. In 2017, BD welcomed C. R. Bard and its products into the BD family. For more information on BD, please visit bd.com.

13.00-14.30
CM 2 Mass spectrometry and other innovative diagnostic microbiology approaches
César Roux
Co-chairs: Katia Jaton, Lausanne; Peter Keller, Zürich

13.00-13.30 Computational metabolite identification approaches: application to the study of microorganisms’ metabolomes
Pierre-Marie Allard, Geneva (CH)

Submitted talks
CM-05 Comparison of the BD Phoenix™ CPO Detect Test vs. routine testing for detection of Carbapenemase Producers – Antony Croxatto, Lausanne (CH)
CM-06 Proteomics of antimicrobial tolerance modeling, predicting and understanding – Pablo Manfredi, Basel (CH)
CM-07 Identification and characterization of the LysR-type transcription regulator FosR and its role in fosfomycin resistance in Klebsiella pneumoniae – Linda Müller, Fribourg (CH)
CM-08 High mortality of non-Fournier necrotising fasciitis with Enterobacteriales: time to rethink classification? – Adrian Egli, Basel (CH)

EM 2 Metagenomics
Alexandre Yersin
Co-chairs: Claire Bartelli, Lausanne; Vladimir Lazarevic, Geneva

13.00-13.30 A diversity of deep terrestrial subsurface metabolic processes revealed by metaproteogenomics
Rizlan Bernier-Latmani, Lausanne (CH)

Submitted talks
EM-05 The small RNA RyhB is a regulator of cytochrome expression in Shewanella Oneidensis – Karin Lederballe Melborn, Lausanne (CH)
EM-07* Arsenic methylation across microbial phyla – Karin Viacava, Lausanne (CH)
EM-08 Honeybees from the same colony harbour individualized gut bacterial communities – Kirsten Ellegaard, Lausanne (CH)

* Student Paper
## 13.00-14.30
### Cell division
Co-chairs: Justine Collier, Lausanne; Patrick Vollier, Geneva

<table>
<thead>
<tr>
<th>Time</th>
<th>Title</th>
<th>Speaker(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.00-13.30</td>
<td><strong>Chromosome architecture in prokaryotes</strong></td>
<td>Stephan Gruber, Lausanne (CH)</td>
</tr>
<tr>
<td>13.30-13.45</td>
<td>Investigation of the potential role of ParB in chromosome and plasmid segregation among Chlamydiales order</td>
<td>Aurélie Scherler, Lausanne (CH)</td>
</tr>
<tr>
<td>13.45-14.00</td>
<td>Harnessing CRISPR system for genome editing in human pathogen S. pneumoniae</td>
<td>Dimitra Synefiaridou, Lausanne (CH)</td>
</tr>
<tr>
<td>14.00-14.15</td>
<td>Multilayered control of the initiation of DNA replication in Caulobacter crescentus</td>
<td>Antonio Frandi, Lausanne (CH)</td>
</tr>
<tr>
<td>14.15-14.30</td>
<td>Meiotic cell cycle and re-fertilization blocks are coordinately regulated in fission Yeast</td>
<td>Aleksandar Vjestica, Lausanne (CH)</td>
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### Environmental mycology
Co-chairs: Saadia Bindschedler, Neuchâtel; Philippe Hauser, Lausanne

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>13.00-13.30</td>
<td><strong>Fungi and secretomes: sources of chemical biodiversity</strong></td>
<td>Katia Gindro – Sylvain Schnee, Nyon (CH)</td>
</tr>
<tr>
<td>13.30-13.45</td>
<td>Assessment the potentiality of some soil fungi in Battery Myco-remediation</td>
<td>Metwally Kottb, Suez Canal University, Germany (DE)</td>
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<tr>
<td>13.45-14.00</td>
<td>Implications of typhoon on community assemblages of myxomycetes: A case study on beach and inland forests of aurora and quezon province, Philippines – Enrico Cabutaje, Manila (PH)</td>
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<tr>
<td>14.00-14.15</td>
<td>New insights in bacteria-fungi interactions in nutritional interference: the case of oxalotrophy as a biocontrol strategy against phytopathogenic fungi</td>
<td>Alissin Estoppey, Neuchâtel (CH)</td>
</tr>
<tr>
<td>14.15-14.30</td>
<td>A chromosome-scale assembly of the wheat powdery mildew genome provides insight into origin and evolution of genes associated with host-pathogen interactions</td>
<td>Marion Müller, Zurich (CH)</td>
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## 13.00-14.30
### Emerging viruses
Co-chairs: Rahel Ackermann-Gäumann, Bern; Stefan Kunz, Lausanne

<table>
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<tr>
<td>13.00-13.30</td>
<td><strong>Pathogenesis of highly pathogenic hemorrhagic fever viruses: Example of Lassa and Ebola viruses</strong></td>
<td>Sylvain Baize, Lyon (FR)</td>
</tr>
<tr>
<td>13.30-13.45</td>
<td>Receptor tyrosine kinases are promising targets in Lassa virus antiviral therapy</td>
<td>Chiara Fedeli, Lausanne (CH)</td>
</tr>
<tr>
<td>13.45-14.00</td>
<td>Identification of small-molecule viral inhibitors targeting various stages of the life-cycle of hantaviruses</td>
<td>Sylvia Rothenberger, Lausanne (CH)</td>
</tr>
<tr>
<td>14.00-14.15</td>
<td>Combination of second and third generation sequencing technologies for genome sequencing of RNA viruses in clinical samples</td>
<td>Alban Ramette, Bern (CH)</td>
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## 14.30-15.00
**Coffee break**

## 15.00-16.30
### Human Papillomavirus: molecular diagnostics and clinical applications
Adriaan Van Brule, Den Bosch (NL)

<table>
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<td><strong>Human Papillomavirus: molecular diagnostics and clinical applications</strong></td>
<td>Adriaan Van Brule, Den Bosch (NL)</td>
</tr>
<tr>
<td>15.30-15.45</td>
<td>Up-to-date detection of Helicobacter pylori in gastric biopsies including resistance testing for macrolides and fluoroquinolons</td>
<td>Konrad Egli, Liebefeld (CH)</td>
</tr>
<tr>
<td>15.45-16.00</td>
<td>The MUCOVIB project: Concordance between upper and lower airway microbiota in children with Cystic Fibrosis</td>
<td>Claire Bertelli, Lausanne (CH)</td>
</tr>
<tr>
<td>16.00-16.15</td>
<td>First complete genome sequence of Actinobacillus porcinsillarum using the Oxford Nanopore sequencing technology</td>
<td>Valentina Dona, Bern (CH)</td>
</tr>
</tbody>
</table>

* Student Paper
**Program Tuesday, August 28, 2018**

### 15.00-16.30

**EM3** Ecology & evolution  
**ALEXANDRE YERSIN**

Co-chairs: Sara Mitri, Lausanne; Christof Holliger, Lausanne

**15.00-15.30**  
**Mechanisms of adaptive evolution in fungal pathogens**

Daniel Croll, Neuchâtel (CH)

Submitted talks

- **EM-09**  
  15.30-15.45  
  Understanding the activation of integrative and conjugative element transfer to the recipient cell by investigating the expression of the element’s core genes inside the donor cell  
  – Andrea Vucicevic, Lausanne (CH)

- **EM-10**  
  15.45-16.00  
  Transfer of an integrative and conjugative element in Pseudomonas may be triggered by oxidative stress  
  – Roxane Moritz, Lausanne (CH)

- **EM-11**  
  16.00-16.15  
  Origin of sediment bacteria: water versus soil  
  – Mathildia Hayoz, Neuchâtel (CH)

- **EM-12**  
  16.15-16.30  
  Phylogenetics of bacteria and their plasmids: comparing bioinformatic approaches  
  – Jana S. Huisman, Zurich (CH)

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**PB 3** Bacterial pathogenesis  
**AUGUSTE TISSOT**

Co-chairs: Mélanie Blokesch, Lausanne; Marc Brankamp, Munich

**15.00-15.30**  
**A RNA helicase mutant shows disturbed magnesium homeostasis**

Patrick Linder, Geneva (CH)

Submitted talks

- **PB-09**  
  15.30-15.45  
  Development of a novel vaccine for contagious caprine pleuropneumonia based on a fast-growing Mycoplasma fermentarius chassis  
  – Fabien Labroussaa, Bern (CH)

- **PB-10**  
  15.45-16.00  
  Tn-sequencing of Mycoplasma hyopneumoniae and Mycoplasma myrhinis mutant libraries reveals potential virulence-associated, non-essential genes  
  – Simona Gerber, Bern (CH)

- **PB-11**  
  16.00-16.15  
  An interbacterial killing device influences bacterial evolution in Vibrio cholerae  
  – Noémie Matthey, Lausanne (CH)

- **PB-12**  
  16.15-16.30  
  A new lethality-based assay to screen anti-virulence compounds against Staphylococcus aureus  
  – Sara Leoni, Genève (CH)* Student Paper

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**MY 3** Basic mycology  
**CHARLOTTE OLIVIER**

Co-chairs: Alix Coste, Lausanne; Philippe Hauser, Lausanne

**15.00-15.30**  
**Chemical defense of fungi against bacteria and nematodes**

Markus Künzler, Zurich (CH)

Submitted talks

- **MY-09**  
  15.30-15.45  
  Investigation of the parameters of Pom1 gradient formation  
  – Veneta Gervanova, Lausanne (CH)

- **MY-10**  
  15.45-16.00  
  Comparative study of genetically similar but phenotypically distinct Candida albicans isolates  
  – Kontxi Martinez de San Vicente, Zurich (CH)

- **MY-11**  
  16.00-16.15  
  What is a fungal barcode?  
  – Florian Gschwend, Zurich (CH)

- **MY-12**  
  16.15-16.30  
  Two small GTPases orchestrate cell polarity in fission yeast  
  – Laura Merini, Lausanne (CH)* Student Paper

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**VI 3** Viral tropism and virulence  
**MATHIAS MAYOR**

Co-chairs: Silke Stertz, Zurich; Mirco Schmolke, Geneva

**15.00-15.30**  
**Heparan sulfate binding is a critical determinant of enterovirus 71 dissemination and pathogenesis in humans**

Caroline Tapparel-Vu, Geneva (CH)

**15.30-16.00**  
**Influenza A virus PB1-F2 is a multifunctional pathogenicity factor acting in a cell type dependent fashion**

Mirco Schmolke, Geneva (CH)

Submitted talks

- **VI-07**  
  16.00-16.15  
  Rapid and accurate diagnosis of Influenza A/B and respiratory syncytial virus in adults using FilmArray, Liaison MDX and GeneXpert systems  
  – Stanislava Steiner, Lucerne (CH)

- **VI-08**  
  16.15-16.30  
  The prevalence and epidemiology of human adenovirus infections in Bern; 1998-Jan 2018  
  – Odeke Akello, Spiez (CH)* Student Paper

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*CM Clinical Microbiology  
*EM Environmental Microbiology  
*PB Prokaryotic Biology  
*MY Mycology  
*VI Virology  

* Student Paper
SSM Opening Sessions

17.00-18.00  General Assembly  
CÉSAR ROUX

18.00-19.00  Contest “Engage your Audience!”  
CÉSAR ROUX  
The contest “Engage your Audience!” allows young researchers to present their research in front of their peers, using a simple and plain register. To do so, they will have only three minutes available! In order to participate to the contest applicants should be pursuing their research as PhD student.

19.00-19.30  Aperitif on the 20th floor

Program Tuesday, August 28, 2018

Chair: Pilar Junier, Neuchâtel & David Johnson, EAWAG

09.00-09.30  
Keynote 1  
The leaf microbiota: disassembling and rebuilding to explore plant microbe interactions  
Julia Vorholt, Zurich (CH)

09.30-10.00  
Keynote 2  
Tuberculosis: combining research from ancient DNA and historical epidemiology  
Abigail Bouwman, Zurich (CH)

10.00-10.30  Coffee break

10.30-12.00  
Session 1  
Modern diagnostic microbiology  
Co-chairs: Katia Jaton, Lausanne; Jacques Schrenzel, Geneva

10.30-11.00  
Image analysis in modern clinical microbiology  
Raphaël Marcelpoil, Grenoble (FR)

Submitted talks

S-01  
Optimization of carbapenemase detection in pathogenic bacteria using Matrix-Assisted Laser-Desorption/Ionization Time of Flight (MALDI-TOF) – Alex Coste, Lausanne (CH)

S-02*  
Evaluation of different Nuclear Magnetic Resonance (NMR) methods for metabolomic studies in Streptococcus pneumoniae – Lukas Troxler, Bern (CH)

S-03*  
The intestinal microbiota predisposes to the occurrence of traveller’s diarrhoea and to the carriage of multidrug-resistant Enterobacteriaceae after travelling to tropical regions – Stefano Leo, Geneva (CH)

S-04*  
Setting up of a functional metagenomics methodology to reveal the resistome in pig farms – Julia Moor, Bern (CH)

* Student Paper
### Microbial pathogenesis
**Alexandre Yersin**

**Session 2**

**10.30-12.00**

**Pathogenesis of Bartonella infections**
Christoph Dehio, Basel (CH)

**Submitted talks**

- **S-05**
  - Full attenuation of a highly pathogenic Mycoplasma mycoides subsp. capri via synthetic genomics-based deletions
  - Jörg Jores, Bern (CH)

- **S-06**
  - Identification and characterization of factors involved in cell wall homeostasis in pseudomonas aeruginosa
  - Coralie Fumeaux, Harvard (USA)

- **S-07**
  - Short chain fatty acids control SPI-I phase variation post-transcriptionally
  - Alyson Hockenberry, Zurich (CH)

- **S-08**
  - Comparative genome analysis of Neisseria mucosa subspecies reveals a putative role for katA, sodC, pilE and fimT homologs in the pathogenesis of N. mucosa subsp. macacae endocarditis
  - Florian Tagini, Lausanne (CH)

### Antibiotic Resistance
**Auguste Tissot**

**Session 3**

**10.30-11.00**

**Multidrug resistance and carbapenemase producers in Gram negative bacteria**
Patrice Nordmann, Fribourg & Lausanne (CH)

**Submitted talks**

- **S-09**
  - Characterization of multidrug resistance plasmids harbored in enterovirulent Escherichia coli isolated from diarrheic pigs in Switzerland
  - Michael Birhanite, Bern (CH)

- **S-10**
  - Antimicrobial resistant bacteria in food at Swiss retail level: assessment of prevalence and consumer exposure
  - Christoph Jans, Zurich (CH)

- **S-11**
  - Functional characterization of co-adjuvants that prevent the spread of antibiotic resistance development in Streptococcus pneumoniae
  - Arnaud Domenech, Lausanne (CH)

- **S-12**
  - Epigenetically inherited antibiotic resistance: another component of a multi-faceted problem
  - Paddy Gibson, Lausanne (CH)

### Phages
**Charlotte Olivier**

**Session 4**

**10.30-11.00**

**Dispensable but effective, the function of the central spike tip protein of the Myoviridae contractile tail**
Yves Mattenberger, Geneva (CH)

**Submitted talks**

- **S-13**
  - Mutations in the bcs operon of Erwinia amylovora abolish infection by bacteriophages S6 and M7
  - Leandra Knecht, Zurich (CH)

- **S-14**
  - Transfer of pathogenic viruses and bacteriophages from liquid to skin
  - Ana Karina Pitó Garcia, Dübendorf (CH)

- **S-15**
  - Optimization protocol for the extraction of bacteriophages from soil samples preceding metagenomics analysis
  - Pauline Göller, Zurich (CH)

- **S-16**
  - Efficacy of phage therapy against lethal methicillin resistant Staphylococcus aureus (MRSA) ventilator associated pneumonia - an experimental study in rats
  - Joseph Prazak, Bern (CH)

### Vector-borne diseases
**Mathias Mayor**

**Session 5**

**10.30-11.00**

**Insect-borne pathogens emerging in Europe**
Eva Veronesi, Zurich (CH)

**Submitted talks**

- **S-17**
  - Current and future spatial distribution of the tick Ixodes ricinus - host of the Rhodobacteroides bacterial pathogens - in Switzerland
  - Estelle Rochat, Lausanne (CH)

- **S-18**
  - Organotypic culture slices of rat cerebellum to study antivirals against tick-borne encephalitis virus
  - Nicole Lenz, Bern (CH)

- **S-19**
  - Pathogen prevalence in ticks parasitizing humans: a citizens science application
  - Rahel Ackermann-Gäumann, Spiez (CH)

- **S-20**
  - Collecting ticks and tick-bite data by users of the smartphone app "Zecke – Tick Prevention"
  - Reto Lienhard, La Chaux-de-Fonds (CH)

**12.00-14.00**

Lunch break & Posters SSM

*Student Paper*
12.45-13.45
Exclusive Symposium on Maldi-Tof

Chair: Sander Slingerland, Product Specialist Microbiology; Bruker Daltonik GmbH, Bremen (DE)

12.45-13.15
A rapid blood culture workflow: the ongoing (r)evolution for identification and selected resistance testing – Miriam Cordovana, Operative Unit of Microbiology - S. Orsola-Malpighi - University Hospital, Bologna (IT)

13.15-13.45
Expanding the scope of Maldi-Tof – towards new applications in clinical microbiology – Sander Slingerland, Product Specialist Microbiology, Bruker Daltonik GmbH, Bremen (DE)

14.00-15.30
Combating antibiotic resistance [NRP72]

Co-chairs: Julia Vorholt, Zurich; Christoph Dehio, Basel

14.00-14.30
Ecology- and genome-guided natural product discovery
Jörn Piel, Zurich (CH)

Submitted talks
S-21
Evolution of Tolerance shapes evolution of antimicrobial Resistance – Isabelle Sanit, Basel (CH)

S-22
Engineering peptidoglycan hydrolases as specific antimicrobials for treatment of Staphylococcus aureus infections – Martin J. Loessner, Zurich (CH)

S-23
Do Long-term Land-use practices Affect Soil Bacterial and Viral Profiling, Antimicrobial Resistance Evolution and Spread? – Elena Gómez-Sanz, Zurich (CH)

S-24
Procalcitonin and lung ultrasonography point-of-care testing to decide on antibiotic prescription in patients with lower respiratory tract infection at primary care level: a pilot study – Loïc Lhopitallier, Lausanne (CH)

14.00-15.30
Microfluidics and innovative diagnostic tests

Co-Chairs: Franziska Suter, Bern; Antony Croxatto, Lausanne

14.00-14.30
Microbiome-on-a-Chip: Exploring microbial interactions at the cellular level using microfluidic technology
Claire Stanley, Zurich (CH)

Submitted talks
S-25  Evaluation of EDTA- and DPA-based tests for detecting Mcr producers – Mathieu Clément, Bern (CH)

S-26  Bacterial Microcolonies in Gel Beads for High-Throughput Screening – Yolanda Schaerli, Lausanne (CH)

S-27  Performance evaluation of Accelerate Pheno system in antimicrobial susceptibility testing of highly resistant bacteria strains in bloodstream infection, compared to standard laboratory testing – Cinzia Zehnder, Lugano (CH)

S-28  Incorporation of liquid-based-microbiology enhances diagnostic outcome of Neisseria gonorrhoeae in asymptomatic female carriers – Anna Röditscheff, Bern (CH)

14.00-15.30
Innate immunity

Co-chairs: Hector Moreno, Lausanne; Matthias Schweizer, Bern

14.00-14.30
Innate immune cells in pigs: variations of the same tune?
Artur Summerfield, Bern (CH)

14.30-15.00
Role of Interferon-Lambda in Host Defense against Influenza Viruses
Peter Staehi, Freiburg (DE)

Submitted talks
S-29  Cell-to-cell phenotypic heterogeneity in macrophage-Mycobacterium tuberculosis interaction – Chiara Tonio, Lausanne (CH)

* Student Paper
Session 9  
**Host pathogen interaction & Invasion**  
Charlotte Olivier  
Co-chairs: Sonja-Verena Albers, Freiburg; Stefan Kunz, Lausanne  

14.00-14.30  
**Identification of the bat influenza virus receptor**  
Silke Stertz, Zurich (CH)  

**Submitted talks**  
- **S-30**  
  14.30-14.45  
  Identification and characterization of a W. chondrophila-specific inclusion membrane protein (Inc) secreted by the Type III Secretion System – Carole Kebbi-Beghdadi, Lausanne (CH)  
- **S-31**  
  14.45-15.00  
  Type VI secretion in plant-beneficial Pseudomonas protegens contributes to gut microbiome invasion and pathogenicity towards a plant pest insect – Christoph Keel, Lausanne (CH)  
- **S-32**  
  15.00-15.15  
  Elucidation of the molecular microenvironment of coronavirus replicase complexes reveals close association with the host cell translation machinery – Philip Vovk, Bern (CH)  

Session 10  
**Intracellular bacteria**  
Mathias Mayor  
Co-chairs: Carole Kebbi-Beghdadi, Lausanne; Volker Thiel, Bern  

14.00-14.30  
**Formation of a pathogen vacuole according to Legionella**  
Hubert Hilbi, Zurich (CH)  

**Submitted talks**  
- **S-33**  
  14.30-14.45  
  Waddlia chondrophila plasmid: a genetic tool to understand the biology of Chlamydia-related bacteria – Silvia Ardissone, Lausanne (CH)  
- **S-34**  
  14.45-15.00  
  Characterization of cell division mechanisms of Waddlia chondrophila, a chlamydia-related bacterium – Firuza Bayramova, Lausanne (CH)  
- **S-35**  
  15.00-15.15  
  New approaches for in vitro assays to evaluate the antibiotic susceptibility of chlamydia – Hanna Marti, Zurich (CH)  
- **S-36**  
  15.15-15.30  
  Lessons learned from a false-negative result with a laboratory-developed legionella pneumophila PCR in an external quality control challenge – Alexis Dumoulin, Sion (CH)  

15.30-16.00  
Coffee break
### Session 13: Bacterial toxins & Cell microbiology
**Chair:** Auguste Tissot

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<th>Time</th>
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<th>Presenter</th>
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<tbody>
<tr>
<td>16.00-16.30</td>
<td>Disassembly of Functional Membrane Microdomains inhibit MRSA penicillin resistance</td>
<td>Daniel Lopez, Madrid (ES)</td>
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**Submitted talks**

- S-45: Pilus locus organization is a key virulence determinant in *Streptococcus gallolyticus* causing infective endocarditis
  - Christoph Jans, Zurich (CH)
- S-46: One step back, two steps forward: Toxin-antitoxin modules and persister formation of *Escherichia coli*
  - Alexander Harms, Copenhagen (DK)
- S-47*: A reservoir for *Salmonella* conjugative plasmids in the intestinal mucosa
  - Erik Bakkeren, Zurich (CH)
- S-48*: In situ architecture, function and evolution of a contractile injection system
  - Désirée Boeck, Zurich (CH)

### Session 14: Microbial evolution
**Chair:** Charlotte Olivier

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<tbody>
<tr>
<td>16.00-16.30</td>
<td>Microbial evolution</td>
<td>Sara Mitri, Lausanne; Nicolas Jacquier, Lausanne</td>
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<tr>
<td>16.30-17.00</td>
<td>Marseillevirions proteomic to get into marseilleviridae physiology</td>
<td>Sandra Jeudy, Marseille (FR)</td>
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**Submitted talks**

- S-49: Adaptation to new environment: the pH challenge
  - Rita Di Martino, Lausanne (CH)
- S-50*: Endofungal bacteria – New insights into bacterial-fungal coexistence
  - Andrea Lohberger, Neuchâtel (CH)

### Session 15: Viral hepatitis
**Chair:** Mathias Mayor

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<tbody>
<tr>
<td>16.00-16.30</td>
<td>Innate immune response to hepatitis C virus infection</td>
<td>Markus Heim, Basel (CH)</td>
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**Submitted talks**

- S-51: Recombinant hepatitis E viruses harboring tags in the ORF1 protein
  - Dagmara Szkolnicka, Lausanne (CH)
- S-52: Palmitoylation determines the membrane association and subcellular localization of hepatitis E virus ORF3 protein
  - Jérôme Gouttenoire, Lausanne (CH)
- S-53: Hepatitis E in a one-year old child led to the identification of transfusion-associated Hepatitis E virus infections
  - Marcus Panning, Freiburg (DE)
- S-54: Detection of Hepatitis E virus (HEV) RNA in Raw Sausages and Raw Sausages Containing Pig Liver from Retail Level in the Southern Part of Switzerland
  - Magdalena Nuesch-Inderbinen, Zurich (CH)

### 18.00-17.30

- **Session 15:** Viral hepatitis
  - Co-chairs: Dagmara Szkolnicka, Lausanne; Jérôme Gouttenoire, Lausanne
  - **Chair:** Mathias Mayor
  - **Guide:** Dagmara Szkolnicka

*Student Paper*
09.00-09.30

Keynote 3  Metagenomics & intestinal microbiota  CÉSAR ROUX

High-throughput sequencing meets cultivation for novel insights into mammalian gut bacteria
Thomas Clavel, Aachen (DE)

09.30-10.00

Keynote 4  Antibiotic resistance  CÉSAR ROUX

Antibiotic resistance in the environment
Pilar Junier, Neuchâtel (CH)

10.00-10.30  Coffee break

10.30-12.00

Session 16  Metagenomics  CÉSAR ROUX
Co-chairs: Claire Bertelli, Lausanne; Vladimir Lazarevic, Geneva

10.30-11.00  Nutrition & metagenomics
Laurence Genton, Geneva (CH)

Submitted talks
S-55  11.00-11.15  Stunted childhood growth is associated with decompartmentalization of the gastrointestinal tract and overgrowth of oropharyngeal taxa – Pascale Vonaesch, Paris (FR)
S-56*  11.15-11.30  “Fondue Chinoise” as a potential source of campylobacteriosis: whole genome sequencing (WGS) surveillance over 2 years in Basel, Switzerland – Josiane Reist, Basel (CH)
S-57  11.30-11.45  Community-acquired blood culture-negative infective endocarditis case elucidated by clinical metagenomics – Vladimir Lazarevic, Geneva (CH)
S-58  11.45-12.00  Ecology of human lung microbiota and its impact on the host – Sudip Das, Lausanne (CH)

10.30-11.00  Assembly of the archaellum and its motor complex
Sonja-Verena Albers, Freiburg (DE)

Submitted talks
S-59  11.00-11.15  Investigating the antibacterial mode of action of an anticancer peptide – Nicolas Jacquier, Lausanne (CH)
S-60*  11.15-11.30  Antimicrobial Peptide Dendrimers from Chemical Space and their Mechanism of Action – Bee Ha Gan, Bern (CH)
S-61*  11.30-11.45  Listeria monocytogenes L-form cells, rebuilding the wall for cell virulence – Virginie Grosboillot, Zurich (CH)
S-62  11.45-12.00  DNA-uptake pilus of Vibrio cholerae capable of kin-discriminated auto-aggregation – David Adams, Lausanne (CH)

Session 17  Cell surface structures in prokaryotes  ALEXANDRE YERINS
Co-chairs: Mélanie Blokesch, Lausanne; Patrick Linder, Geneva

10.30-11.00  Assembly of the archaellum and its motor complex
Sonja-Verena Albers, Freiburg (DE)

Submitted talks
S-59  11.00-11.15  Investigating the antibacterial mode of action of an anticancer peptide – Nicolas Jacquier, Lausanne (CH)
S-60*  11.15-11.30  Antimicrobial Peptide Dendrimers from Chemical Space and their Mechanism of Action – Bee Ha Gan, Bern (CH)
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S-62  11.45-12.00  DNA-uptake pilus of Vibrio cholerae capable of kin-discriminated auto-aggregation – David Adams, Lausanne (CH)

10.30-11.00  Tick borne encephalitis: spotlights on epidemiology and research
Stephen Leib, Bern (CH)

Submitted talks
S-63  11.00-11.15  The hidden risk in snake breeding: an anecdote of human leptospriosis – Sabrina Rodriguez-Campos, Bern (CH)
S-64*  11.15-11.30  Analysis of the zoonotic potential of the Influenza D virus for humans – Melle Holwerda, Bern (CH)
S-65  11.30-11.45  Isolation, characterization and rapid human adaptation of tick-borne tamiavirus – Hector Moreno, Lausanne (CH)
S-66*  11.45-12.00  Phosphatidylserine receptors TIM-1 and Axl promote hantavirus infection – Jennifer Mayor, Lausanne (CH)* Student Paper

* Student Paper
**Session 19**  
**Microbial pathology & Immunity**  
*Charlotte Olivier*  
Co-chairs: Salomé Leibundgut, Zurich; Dominique Sanglard, Lausanne

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<th>Time</th>
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<tbody>
<tr>
<td>10.00-10.30</td>
<td>An unexpected role for neutrophils in the pathology of cutaneous leishmaniasis</td>
<td>Fabienne Tacchini-Cottier, Lausanne (CH)</td>
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<tr>
<td>10.30-11.00</td>
<td>IL-17-mediated antifungal immunity at the interface between commensalism and disease</td>
<td>Salomé Leibundgut, Zurich (CH)</td>
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Submitted talks

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<tr>
<td>S-67</td>
<td>Th17 cell immunity to the commensal fungus Candida albicans</td>
<td>Florian Kirchner, Zurich (CH)</td>
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<tr>
<td>S-68</td>
<td>Is Antifungal Treatment Needed in Non-Candidemic Patients with a Positive Catheter Tip Culture for Candida? A Multi-Center Cohort Study of the Fungal Infection Network of Switzerland (FUNGINOS)</td>
<td>Yvonne Schmiedel, Bern (CH)</td>
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**Session 20**  
**Mycobacteria**  
*Mathias Mayor*  
Co-chairs: Katia Jaton, Lausanne; Lloyd Vaughan, Zurich

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<tr>
<td>10.30-11.00</td>
<td>Role of ESCRT and autophagy machineries in membrane repair and mycobacteria restriction</td>
<td>Thierry Soldati, Geneva (CH)</td>
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Submitted talks

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<tr>
<td>S-69</td>
<td>Genomics of Mycobacterium kansasii, does horizontal gene transfer mediate pathogenicity?</td>
<td>Florian Tagini, Lausanne (CH)</td>
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<tr>
<td>S-70</td>
<td>Molecular epidemiology integrating whole genome sequencing, a powerful approach for the investigation of Mycobacterium tuberculosis outbreaks</td>
<td>Fatimah Zakham, Lausanne (CH)</td>
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<tr>
<td>S-71</td>
<td>Lung-on-a-chip microtechnologies for studies of host-pathogen interactions in M. tuberculosis infections</td>
<td>Vivek Thacker, Lausanne (CH)</td>
</tr>
<tr>
<td>S-72</td>
<td>Whole genome sequencing characterization of an isoniazid resistant Mycobacterium tuberculosis strain undetected by conventional molecular methods</td>
<td>Onya Opota, Lausanne (CH)</td>
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<tbody>
<tr>
<td>12.00-14.00</td>
<td>Lunch break &amp; Posters SSM* Student Paper</td>
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* Student Paper
### Session 22  
**Environmental microbiology**  
*Alexandre Yersin*

**Co-chairs:** Tamar Kohn, Lausanne; Jan van der Meer, Lausanne

**Submitted talks**

- **S-77**  
  14.00-14.15  
  Low molecular weight organic acids as key molecules in bacterial-fungal Interactions  
  – Fabio Palmieri, Neuchâtel (CH)

- **S-78**  
  14.15-14.30  
  Targeted mycophagous lifestyle of Lysinibacillus sphaericus against the phytopathogenic fungus Rhizoctonia solani  
  – Isha Jamil, Neuchâtel (CH)

- **S-79**  
  14.30-14.45  
  High time-resolution simulation of E. coli on Vietnamese farmers’ hands based on videography and environmental microbial sampling  
  – Tim Julian, Dübendorf (CH)

- **S-80**  
  14.45-15.00  
  Iron reduction by the fermentative Gram-positive bacterium Clostridium Acetobutylicum  
  – Cornelia List, Lausanne (CH)

- **S-81**  
  15.00-15.15  
  Detection and genomic diversity of Escherichia coli from soils and fecal sources in households in rural Bangladesh  
  – Maria Camila Montealegre, Dübendorf (CH)

- **S-82**  
  15.15-15.30  
  Changing the ligand-binding specificity of Escherichia coli periplasmic binding protein RbsB by rational design and screening  
  – Diogo Tavares, Lausanne (CH)

### Session 23  
**Microbial pathology and Cell microbiology**  
*Auguste Tissot*

**Co-chairs:** Dominique Soldati-Favre, Geneva; Stephan Gruber, Lausanne

**Submitted talks**

- **S-83**  
  14.00-14.30  
  Insight in the biology of toxoplasma  
  – Dominique Soldati-Favre, Geneva (CH)

- **S-84**  
  14.30-15.00  
  Microbial pathology: Difference or similarities of different pathogens in different species, having zoonotic relevance?  
  – Maja Rutgers, Tagelswangen (CH)

- **S-85**  
  15.00-15.15  
  Visualization of sterols with a bacterial toxin bio-sensor reveals a novel sterol internalization pathway  
  – Magdalena Marek, Lausanne (CH)

- **S-86**  
  15.15-15.30  
  Hsp90 Controls Caspofungin Paradoxical Effect of Aspergillus fumigatus via the Mitochondrial Respiratory Chain  
  – Marion Aruanno, Lausanne (CH)

### Session 24  
**Bacterial genomics**  
*Charlotte Olivier*

**Co-chairs:** Carmen Buchrieser, Paris; Hubert Hilbi, Zurich

**Submitted talks**

- **S-87**  
  14.00-14.30  
  The Legionella genus genome: evolution of an environmental pathogen  
  – Carmen Buchrieser, Paris (FR)

- **S-88**  
  14.30-15.00  
  A comparative genomics database of the phylum Chlamydiae  
  – Trestan Pillonel, Lausanne (CH)

- **S-89**  
  14.45-15.00  
  Building an open source bioinformatic pipeline for routine high throughput sequencing in a microbiology diagnostic lab  
  – Sacha Laurent, Lausanne (CH)

- **S-90**  
  15.00-15.15  
  Challenges in using whole genome sequencing for pseudomonas aeruginosa investigation  
  – Barbara Magalhães, Lausanne (CH)

- **S-91**  
  15.15-15.30  
  Air-conditioner cooling towers as complex reservoirs and continuous source of Legionella pneumophila infection evidenced by genomic analysis  
  – Daniel Wüthrich, Basel (CH)

### Session 25  
**Innovative non mammalian models**  
*(3R session)*  
*Mathias Mayor*

**Co-chairs:** Yolanda Schaerli, Lausanne; Thierry Soldati, Geneva

**Submitted talks**

- **S-92**  
  14.00-14.30  
  Fish: Vertebrate hosts and models for intracellular bacterial infections  
  – Lloyd Vaughan, Zurich (CH)

- **S-93**  
  14.30-15.00  
  Phenotypic heterogeneity of the honey bee gut symbiont Frischella perrara - an important trait for host colonization?  
  – Konstantin Schmidt, Lausanne (CH)

- **S-94**  
  14.45-15.00  
  Bacterial coexistence within species in the honey bee gut facilitated by nutritional niche differentiation  
  – Silvia Brochet, Lausanne (CH)

- **S-95**  
  15.00-15.15  
  A root colonizing plant-beneficial pseudomonad persists in herbivorous insects throughout different developmental stages and can be dispersed to new host plants  
  – Monika Maurhofer, Zurich (CH)

- **S-96**  
  15.15-15.30  
  Predatory behavior of Vibrio cholerae towards bacteria and amoebae  
  – Natalia Carolina Drebes Dörr, Lausanne (CH)

**15.30-16.00 Coffee break**
Program Thursday, August 30, 2018

16.00-16.30  SSM Poster Awards and “SSM career encouragement award”

16.30-17.00  Keynote 5 Chair: Gilbert Greub, Lausanne

Leishmania parasites and associates
Nicolas Fasel, Lausanne (CH)

17.00  End of meeting
Location

Arrival

- By car: Exit motorway « Lausanne-Vennes / Hôpitaux »
  Take the « Route de Berne » at the traffic lights
  Follow the CHUV boarding & « P-CHUV » for parking
  The auditoire is at the entrance on your left, at the exit of the parking

- By metro (M2): From Lausanne station in direction of Croisettes / Sallaz
  Exit at « CHUV » station
  The CHUV is on your left. The auditoire will be boarded accordingly.
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