SSM ANNUAL MEETING 2016

& SSM Satellite Meetings

BERN 13th to 15th June, 2016

(The SSM meeting will be joined with the SULM meeting that takes place from 14th to 16th June 2016)
Dear all,

The SSM annual meeting that will take place in Bern will be the 74th edition, but you will likely consider it as unique, as being the 1st of a new serie of annual meeting since it evolved quite extensively following the input of the SSM committee who nearly made a revolution by joining the Swiss annual meeting of each section to the general SSM meeting at the same location on 3 consecutive days. Thus, on Monday 13th June you will be able to meet in one of five parallel rooms with the others scientists especially interested in one of the five main themes tackled by our SSM members:

- Clinical microbiology
- Environmental Microbiology
- Prokaryotic Biology
- Mycology
- Virology

Please note that we have dedicated numerous time slots for presentations selected from abstracts in order to give particularly students and PostDocs the opportunity to present and discuss their work. Another revolution is the many sessions dedicated to education, outreach and lay communication. Finally, true revolution, we will have our meeting partially embedded with SULM, the united society of laboratory medicine (see below).

The motto of the congress is nevertheless “evolution” and not “revolution”, since the two next days will have largely a more familiar format with several outstanding plenary lectures, that will mainly focus on the “evolution”: evolution of microbes (symbionts), evolution of antimicrobial resistance, emerging pathogenic microbes due to an evolution in our lifestyle, evolution of technologies with new “omics” approaches making our understanding of diversity and ecology much more accurate, evolution of the place that microbiology has in the society (increased importance due to major recent outbreaks such as Ebola and Zika viruses, …).
We hope that this scientific program will help Swiss microbiologists to further develop since we need to evolve and improve our knowledge just to stay as good as we are due to the major evolution that also take place in our specialty, whatever the field. Thus, fundamental virology, basic research in mycology and prokaryotic biology all largely benefit from new molecular and cell microbiology tools whereas environmental and clinical microbiology have both been largely impacted by the availability of new high throughput technologies. Thus, for example, clinical diagnostic microbiology which was earlier mainly a specialty aiming at the diagnosis of infectious diseases is now progressively also helping the etiological diagnosis of non-infectious diseases such as obesity, asthma and diabetes. This change in sequencing throughput, a true revolution for diagnostic laboratories, led to another challenge: how to adapt to the wave of big data …

To answer this question, the many symposia organized on big data by the SULM, (united societies of laboratory medicine) will for sure attract much interest. The SULM meeting will also dedicate quite a large part to the rapid tests, which also modify how clinical diagnostic is done nowadays …

By chance, thank to the local organizing committee, we will also have a revolution in the format of the evenings events with a “students party on Monday” and a gala dinner on Tuesday …

Thus, everything is thus ready to welcome you in Bern from 13th to 15th June.

Best regards

Gilbert Greub & Volker Thiel
MEETING INFORMATION

KEY DATES:
Deadline for submission of abstracts: March 14th, 2016
Notification of acceptance of abstracts: April 11th 2016
Deadline for "early bird" Congress fee: April 14th 2016

Pre-SSM meeting satellite symposia: 13th June 2016 (see page 8-26)
SSM annual meeting: 14-15th June 2016 (see page 27-36)

AUDIO VISUAL:
Slide presentation must be on powerpoint (ppt) [or PDF format]
The data of presentations must be carried on memory stick.

REGISTRATION:
Please register through the SULM website:

http://www.sulm.ch/f/swissmedlab/enregistrement/inscription
VENUE OF THE MEETING:

In the congress center of BERNEXPO

BERNEXPO AG  •• Mingerstrasse 6  •• CH-3000 Bern 22  ••
T +41 31 340 11 11  •• F +41 31 340 11 10  •• info@bernexpo.ch

HOW TO REACH THE MEETING?

By public transportation
From the railway station:
TRAM N° 9 to Guisanplatz
BUS N° 20 to Wyler
BUS N° 28 to Wankdorfplatz
Trains to S-Bahn Wankdorf station

By Car
Thanks to the proximity to the motorway, it is easy to come by car. Parking spaces are available on the websites of BERNEXPO and accessible 24h / 24h.

LOCAL ORGANIZING COMMITTEE:

SCIENTIFIC COMMITTEE:
Students’ party and SSM invited speakers event

June 13, 2016 from 7.30pm until midnight

19:00h get together
19:30h opening buffet (salad bar, American buffet, dessert, drinks)
20:30h live band SUSPENDERS

Eventforum Bern - getting there……

by car... You leave A1 highway in «Bern Forsthaus»
Turn left at the first light into Brengartenstrasse
Turn right on the parking spot Hochschulzentrum

by public transportation... From main station Bern take bus (Postauto no. 101) until stop
«Güterbahnhof» and walk right over the bridge. After the first building turn left through the (green) door, then you are right beside the Eventforum Bern.
Or you take the Länggassbus no. 12 until final destination, then take a short walk of around 5 minutes from Länggassstrasse along Fabrikstrasse to the Eventforum.

Last bus no. 12 from Länggasse to the main station: 00:18h
Last bus no. 101 (Postauto) to the main station: 00:41h
## INVITED SPEAKERS LIST:

<table>
<thead>
<tr>
<th>Name</th>
<th>Affiliation</th>
<th>Session/Event</th>
<th>Name</th>
<th>Affiliation</th>
<th>Session/Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albrich Werner</td>
<td>SULM Session 15.06.16</td>
<td>Ruppe Etienne</td>
<td>Session I 13.06.16</td>
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<tr>
<td>Auckenthaler Raymond</td>
<td>SULM Session 15.06.16</td>
<td>Salathé Marcel</td>
<td>Session III 15.06.16</td>
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<td>Bachofen Claudia</td>
<td>Session II 13.06.16</td>
<td>Sanders Ian</td>
<td>Session II 13.06.16</td>
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<td>Ball Steven</td>
<td>Session IX 15.06.16</td>
<td>Schrenzel Jacques</td>
<td>SULM Session 15.06.16</td>
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<td>Barral Yves</td>
<td>Session I 13.06.16</td>
<td>Shimizu Tom</td>
<td>Session V 14.06.16</td>
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<td>Battin Tom</td>
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<td>Berkhout Ben</td>
<td>Session III 13.06.16</td>
<td>Tait Joyce</td>
<td>Session VII 14.06.16</td>
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<td>Bernasconi Eric</td>
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# Overview of the SSM Part of the Meeting

**Monday 13rd June 2016**

<table>
<thead>
<tr>
<th>Hour</th>
<th>SYMPOSIMS</th>
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</thead>
<tbody>
<tr>
<td>9:00-12:30</td>
<td><strong>Swiss Clinical Microbiology</strong> Kongressraum 1 (p.11-12)</td>
</tr>
<tr>
<td>13:00-14:00</td>
<td><strong>BD Symposium</strong> Kongressraum 1 (p.13)</td>
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<tr>
<td>14:00-18:00</td>
<td><strong>Swiss Clinical Microbiology</strong> Kongressraum 1 (p.12-15)</td>
</tr>
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*AxonLAB Symposium: 16h00-16h45*
## OVERVIEW OF THE SSM ANNUAL MEETING

**TUESDAY 14th JUNE 2016**

<table>
<thead>
<tr>
<th>Hour</th>
<th>SYMPOSIA</th>
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</thead>
<tbody>
<tr>
<td>9:00-10:15</td>
<td><strong>Microbe-host Interaction</strong></td>
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<tr>
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<td>Plenary Session A</td>
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<tr>
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<td>Kongressraum 1</td>
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<td>(p.31)</td>
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<td>11:00-12:30</td>
<td><strong>Microbe evolution</strong></td>
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<td>Kongressraum 1</td>
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<td>(p.31)</td>
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<td>11:00-12:30</td>
<td><strong>Microbe entry</strong></td>
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<td>Foyer Nord</td>
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<td>(p.31-32)</td>
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<td>11:00-12:30</td>
<td><strong>Host Responses to Microbes</strong></td>
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<td>Foyer Süd</td>
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<td>(p.33)</td>
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<td>11:00-12:30</td>
<td><strong>Clinical Virology</strong></td>
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<td>Kongressraum 4</td>
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<tr>
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<td>(p.33-34)</td>
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<tr>
<td>13:00-14:00</td>
<td><strong>Workshop: Bruker and others</strong></td>
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<td>Kongressraum 1</td>
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<td>(p.34)</td>
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<td>14:00-14:30</td>
<td><strong>Making the bridge: talking about epidemic outbreak to the broad public</strong></td>
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<td>Foyer Nord</td>
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<td>(p.35)</td>
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<td>14:30-15:30</td>
<td><strong>Posters</strong></td>
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<td>(p.34)</td>
</tr>
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<td>16:00-17:30</td>
<td><strong>Systems Microbiology</strong></td>
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<td>Kongressraum 1</td>
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<td>16:00-17:30</td>
<td><strong>Clinical Microbiology</strong></td>
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<td>(p.36)</td>
</tr>
<tr>
<td>16:00-17:30</td>
<td><strong>Dual Use Research of Concern</strong></td>
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<tr>
<td></td>
<td>Foyer Süd</td>
</tr>
<tr>
<td></td>
<td>(p.37)</td>
</tr>
<tr>
<td>17:30-18:30</td>
<td><strong>Microbe Replication</strong></td>
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<tr>
<td></td>
<td>Kongressraum 4</td>
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<tr>
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<td>(p.37)</td>
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<tr>
<td>17:30-18:30</td>
<td><strong>Annual Assembly of the SSM</strong></td>
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<tr>
<td></td>
<td>Kongressraum 1</td>
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<td>(p.37)</td>
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<td>Hour</td>
<td>SYMPOSUMS</td>
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<tr>
<td>9:00-10:15</td>
<td><strong>Looking back to the past</strong>&lt;br&gt;Plenary Session B&lt;br&gt;Kongressraum 2&lt;br&gt;(p.38)</td>
</tr>
<tr>
<td>11:00-12:30</td>
<td><strong>Symbionts</strong>&lt;br&gt;Foyer Süd&lt;br&gt;(p.38)</td>
</tr>
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<td><strong>Epigenetics</strong>&lt;br&gt;Kongressraum 4&lt;br&gt;(p.39)</td>
</tr>
<tr>
<td>13:00-14:00</td>
<td><strong>Workshop: BioMérieux</strong>&lt;br&gt;Foyer Nord&lt;br&gt;(p.40)</td>
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<tr>
<td>14:00-14:30</td>
<td><strong>Posters</strong> (odd numbers)</td>
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<tr>
<td>14:30-15:30</td>
<td><strong>From the lab with love: how to promote scientific education using microbiology</strong>&lt;br&gt;Foyer Nord&lt;br&gt;(p.40)</td>
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<td>16:15–16:45</td>
<td><strong>Digital Health and Epidemiology: Opportunities and Challenges</strong>&lt;br&gt;Plenary Session C&lt;br&gt;Kongressraum 1&lt;br&gt;(p.40)</td>
</tr>
<tr>
<td>16:45-17:00</td>
<td><strong>SSM Award and lecture of Award Winner</strong>&lt;br&gt;Kongressraum 1&lt;br&gt;(p.40)</td>
</tr>
<tr>
<td>17:00-17:30</td>
<td><strong>Closure of Annual Assembly 2016 &amp; Info SSM Annual Assembly in Basel 2017</strong>&lt;br&gt;Kongressraum 1&lt;br&gt;(p.40)</td>
</tr>
</tbody>
</table>
PRELIMINARY PROGRAM
OF THE SSM PART OF THE MEETING

June 13, 2016

Swiss Clinical Microbiology Symposium 2016
Kongressraum 1

09:00-09:15 Welcome
by Jacques Schrenzel and Gilbert Greub

09:15-10:30 Session I: Meta Genomics
Chaired by Alexis Dumoulin and Jacques Schrenzel

09:15-09:45 CLINICAL METAGENOMICS
ETIENNE RUPPE, CH, GENEVA

09:45-10:00 O-59 COMPARISON OF 16SRRNA SEQUENCING DATA PROCESSING PIPELINES TO ASSESS CHANGES IN THE GUT MICROBIOTA INDUCED BY DAIRY INTERVENTIONS
M ROSIKIEWICZ1, KJ BURTON2, G PIMENTEL, U BUTIKOFER, U VON AH U3, MJ VOIROL2, S AEBY1, G VERGÈRES3, N VIONNET2, FP PRALONG2, G GREUB1
1Institute of microbiology of the University of Lausanne and University Hospital, Lausanne, Switzerland, 2Service of Endocrinology, Diabetes and Metabolism, University Hospital, Lausanne, Switzerland, 3Institute of Food Science, Agroscope, Federal Office of Agriculture, Berne, Switzerland

10:00-10:15 O-46 IMPACT OF DIFFERENT FARMING SYSTEMS ON THE ABUNDANCE AND DIVERSITY OF ANTIMICROBIAL RESISTANCE DETERMINANTS AND BACTERIAL COMMUNITY
E. GOMEZ-SANZ1, S. JAENICKE2, R. WITTLER3, A. GOESMANN2, M.G.A. VAN DER HEIJDEN2, B. DUFFY1, T.H.M. SMITS1
1Environmental Genomics and Systems Biology Research Group, ZHAW, Wädenswil, Switzerland, 2Bioinformatics and Systems Biology, Justus-Liebig-University, Giessen, Germany, 3Plant Soil Interactions, Agroscope, Zürich, Switzerland

10:15-10:30 O-37 NEW STRAIN OF NON-TOXIGENIC CORYNEBACTERIUM DIPHTHERIAE FOUND IN A PATIENT WITH TRACHEO-BRONCHITIS: UNPRECEDENTED GENOMIC FEATURES.
F TAGINI1, A KOUTSOKERA2, T PILLONEL1, A LOVIS2, G GREUB1
1Institute of Microbiology, Department of Laboratory, University of Lausanne and University Hospital Center, Lausanne, Switzerland, 2Service of Pneumology, Department of Medicine, University Hospital Center Lausanne, Switzerland

10:30-11:00 Coffee Break
11:00-12:30  Session II: Bacterial Genomics
Chairied by Reinhard Zbinden and Gilbert Greub

11:00-11:30  BACTERIAL GENOMICS: CLINICAL APPLICATIONS
JOHN WA ROSSEN, THE NETHERLANDS

11:30-11:45  O-7  OUTBREAK INVESTIGATION FOR TOXIGENIC CORYNEBACTERIUM DIPHTHERIAE WOUND INFECTIONS IN REFUGEES FROM EAST AFRICA IN SWITZERLAND AND GERMANY BY WGS
DM MEINEL¹, R KUEHL³, R ZBINDEN⁴, V BOSKOA⁵, C GARZONI⁶, M DOLINA⁷, B BLÜMEL⁸, S TSCHUDIN⁹, AF WIDMER⁹ JA. BIELICKI⁹, U. HEININGER⁹, R. KONRAD², A. BERGER², V. HINIC¹, D. GOLDENBERGER⁷, A. BLAICH¹, T. STADLER⁵, M. BATEGAY², A. SING², A. EGLI¹
¹Clinical Microbiology, University Hospital Basel, Switzerland, ²National Consiliary Laboratory on Diphtheria, Oberschleissheim, Germany, ³Infectious Diseases and Hospital Epidemiology, University Hospital Basel, Switzerland, ⁴Institute for Medical Microbiology, University Zurich, Switzerland, ⁵Computational Evolution, ETH Zurich, Switzerland, ⁶Computational Evolution, ETH Zurich, Switzerland, ⁷Department of Internal medicine and Infectious Diseases, Clinica Luganese, Switzerland, ⁸Clinical Microbiology, EOLAB, Bellinzona, Switzerland, ⁹Institute of Medical Microbiology and Hygiene, University Medical Centre Freiburg, Germany, ¹⁰Paediatric Infectious Diseases, University of Basel Children’s Hospital, Switzerland

11:45-12:00  O-60  IDENTIFICATION OF VIRULENCE FACTORS OF A STAPHYLOCOCCUS AUREUS STRAIN CAUSING SEPTIC SHOCK
T PILLONEL¹, C BERTELLI¹, J SCHRENZEL², G GREUB¹,³
¹Center for Research on Intracellular Bacteria, Institute of Microbiology, University Hospital Center and University of Lausanne, Switzerland, ²Genomic Research Laboratory, Service of Infectious Diseases, Geneva University Hospitals, Geneva, Switzerland, ³Service of Infectious Diseases, University Hospital Center, Lausanne, Switzerland

12:00-12:15  O-14  TOWARDS RAPID BACTERIAL DETECTION DIRECTLY FROM CLINICAL SAMPLES USING NEXT-GENERATION SEQUENCING.
S LEO¹, N GAIA¹, V LAZAREVIC¹, E RUPPE¹, J SCHRENZEL¹
¹Genomic Research Lab, Service of Infectious Diseases, Geneva University Hospitals, Geneva, Switzerland

12:15-12:30  O-24  SUSCEPTIBILITY OF MULTIDRUG-RESISTANT E.COLI STRAINS TO COMMERCIAL BACTERIOPHAGE COCKTAILS AND MONOPHAGE
N KARUMIDZE², O.J. BERNASCONI¹, D JGENTI², M GODERDZISHVILI², A ENDIMIANI¹
¹Institute for Infectious Diseases, University of Bern, Bern, Switzerland, ²Eliava Institute of Bacteriophages, Microbiology and Virology, Tbilisi, Georgia

12:30-14:00  Lunch Break
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<th>Time</th>
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<tr>
<td>13:00-14:00</td>
<td>Students' Skills and Career Workshop</td>
<td>Foyer Nord</td>
<td>Alexis Dumoulin</td>
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<td>13:00-13:30</td>
<td>How to get published</td>
<td>Alina Helsloot, Elsevier, NL, Amsterdam</td>
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<td>13:30-14:00</td>
<td>How to find a job outside of academia</td>
<td>Tobias Ernberg, Coulter Partners, CH, Eysins</td>
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<td>13:00-14:00</td>
<td>Lunchworkshop: BD Symposium</td>
<td>Kongressraum 1</td>
<td>Thomas Bodmer and Gilbert Greub</td>
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<td>13:00-13:30</td>
<td>AUTOMATED IDENTIFICATION AND QUANTIFICATION OF MICROBIAL GROWTH IN</td>
<td>Antony Croxatto, Institut de Microbiologie, CHUV Lausanne, CH</td>
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<td>BOTH DEFINED AND CLINICAL SAMPLES</td>
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<td>13:30-14:00</td>
<td>IMPACTS OF LAB AUTOMATION ON ORGANIZATION AND WORKFLOW IN THE</td>
<td>Irene Burckhardt, Département for Infectious Diseases Medical Microbiology</td>
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<td>LABORATORY</td>
<td>and Hygiène, Heidelberg</td>
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<td>14:00-15:30</td>
<td>Session III: Molecular Diagnostics and Serology</td>
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<td>Jacques Schrenzel and Meri Gorgievski</td>
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<td>14:00-14:30</td>
<td>AUTOMATION IN MOLECULAR DIAGNOSIS: OPPORTUNITIES AND DIFFICULTIES</td>
<td>Katia Jaton-Ogay, CH, Lausanne</td>
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<td>14:30-14:45</td>
<td>O-48 LABORATORY DIAGNOSIS OF ACUTE NEUROBORRELIOSIS – HOW AN UNSPECIFIC MARKER MIGHT GIVE A MORE SPECIFIC ANSWER</td>
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<td>R. LIENHARD¹, L. VON ALLMEN², L. BERTAIOLA-MONNERAT³, A. DUMOULIN⁴,</td>
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<td>M.L. TRITTEN⁵, H.H. SIEGRIST⁷</td>
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<td>¹ADMED Microbiology, and Laboratory, National Reference Centre for Tick-borne Diseases (NRZK), La Chaux-de-Fonds, Switzerland, ²ADMED Microbiology, La Chaux-de-Fonds, Switzerland, ³Laboratory of Microbiology, Hôpital Cantonal, Fribourg, Switzerland, ⁴Institut Central des Hôpitaux, Hôpital du Valais, Sion, Switzerland, ⁵Institut of Microbiology, University Hospital of Lausanne, Lausanne, Switzerland, ⁶Pneumology Service, University Hospital of Lausanne, Lausanne, Switzerland, ⁷Transplantation Center, University Hospital of Lausanne, Lausanne, Switzerland, ⁸Hematology Service, University Hospital of Lausanne, Lausanne, Switzerland, ⁹Infectious Diseases Service, University Hospital of Lausanne, Lausanne, Switzerland</td>
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<td>14:45-15:00</td>
<td>O-56 VISCERAL LEISHMANIASIS IN A LUNG TRANSPLANT RECIPIENT: USEFULNESS OF HIGHLY SENSITIVE REAL-TIME POLYMERASE CHAIN REACTION FOR PRE-EMPTIVE DIAGNOSIS</td>
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<td>O OPOTA¹, Z BALMPOUZIS², C BERUTTO³, J KAISER-GUIGNARD⁴, G GREUB⁵, J-D AUBERT⁶, G PRODHOM⁷, O MANUEL⁸, K JATON⁹</td>
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<td>¹Institute of Microbiology, University Hospital of Lausanne, Lausanne, Switzerland, ²Pneumology Service, University Hospital of Lausanne, Lausanne, Switzerland, ³Transplantation Center, University Hospital of Lausanne, Lausanne, Switzerland, ⁴Hematology Service, University Hospital of Lausanne, Lausanne, Switzerland, ⁵Infectious Diseases Service, University Hospital of Lausanne, Lausanne, Switzerland</td>
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15:00-15:15 O-23 COMPARISON OF DIFFERENT SEROLOGIC TESTING SYSTEMS FOR T. PALLIDUM INFECTION
P BITTEL, N JEANNET, D MAYOR, F M SUTER-RINIKER
Clinical Microbiology, Institute for Infectious Diseases, University of Bern, Friedbühlstrasse 51, CH-3001 Bern

15:15-15:30 O-68 A UNIVERSAL SCREENING CULTURE MEDIUM FOR COLISTIN-RESISTANT GRAM NEGATIVE BACTERIA
P. NORDMANN1, A. JAYOL1, L. POIREL1
1Medical and Molecular Microbiology Unit, Department of Medicine, University of Fribourg

15:30-16:00 Coffee Break

16:00-16:45 Workshop AxonLAB
Kongressraum 1
Chaired by Reto Lienhard and Adrian Egli

IMPLEMENTATION OF A MOLECULAR POCT SYSTEM IN A MULTI-SITE HOSPITAL: BENEFITS AND CHALLENGE
MAURO IMPERIALI, ENTE OSPEDALIERO CANTONALE, LUGANO

NEED FOR MIC DURING ANTIMICROBIAL SUSCEPTIBILITY TESTING: WHY, WHEN AND HOW
LUC DUBREUIL, FRANCE, LILLE CEDEX

16:45-18:15 Session IV
Chaired by Steven Leib and Jacques Schrenzel

16:45-17:15 APPLICATIONS OF MALDI-TOF MS BEYOND MICROBIAL IDENTIFICATION
JORDI VILA, SPAIN, BARCELONA

17:15-17:30 O-29 THE REPRODUCIBILITY OF MATRIX-ASSISTED LASER DESORPTION/IONIZATION TIME OF FLIGHT MASS SPECTROMETRY BASED TYPING: EMPLOYMENT OF BIOINFORMATICS
M. OBERLE1, N. WOHLWEND2, D. JONAS3, F. MAURER4, G. JOST5, K VRANCKX6, A. EGLI7
1Medizinische Mikrobiologie, Institut für Labormedizin, Kantonsspital Aarau, Aarau, Schweiz, 2Labormedizinisches Zentrum Dr. Risch AG, Liebefeld-Bern, Schweiz, 3Institute for Environmental Medicine, University of Freiburg, Germany, 4Institute for Medical Microbiology, University of Zurich, Switzerland, 5Clinical Microbiology, Dianalabs, Geneva, Switzerland, 6Applied Maths NV, Sint-Martens-Latem, Belgium, 7Clinical Microbiology, University Hospital Basel, Basel, Switzerland
17:30-17:45  O-25  A RANDOMIZED CONTROLLED TRIAL TO DETERMINE THE IMPACT OF MALDI-TOF BASED IDENTIFICATION DIRECTLY FROM POSITIVE BLOOD CULTURES ON PATIENT MANAGEMENT
M OSTHOFF¹, N GÜRTLER¹, S BASSETTI², GM BALESTRA³, S MARSCH⁴, H PARGGER⁴, M WEISSER⁵, A EGLI⁶
¹Infectious Diseases and Hospital Epidemiology, University Hospital Basel, Basel, ²Internal Medicine, University Hospital Basel, Basel, ³Medical Intensive Care Unit, University Hospital Basel, Basel, ⁴Surgical Intensive Care Unit, University Hospital Basel, Basel, ⁵Clinical Microbiology, University Hospital Basel, Basel

17:45-18:00  O-50  TIME-KILL EXPERIMENTS WITH PENICILLIN, CEFTRIAXONE, GENTAMICIN AND DAPTOMYCIN ALONE AND IN COMBINATION AGAINST AEROCOCCUS URINAE
C HIRZEL¹, L HIRZBERGER¹, H FURRER¹, A ENDIMIANI²
¹Department of Infectious Diseases, Bern University Hospital, University of Bern, Bern, Switzerland, ²Institute for Infectious Diseases, University of Bern, Bern, Switzerland

Students’ Party
19:30  Eventforum Bern
June 13, 2016

Swiss Prokaryotic Biology Symposium 2016
Kongressraum 2

**09:00-09:15**  Welcome
by Patrick Viollier

**09:15-12:30**  Session I: The envelope – from walls to molecules
Chaired by P. Viollier

**09:15-09:45**  REGULATION OF BACTERIAL CELL WALL GROWTH
WALDEMAR VOLLMER, UK, NEWCASTLE

**09:45-10:00**  O-65  THE STAPHYLOCOCCUS AUREUS CHAPERONE PRSA IS A NEW AUXILIARY FACTOR OF OXACILLIN RESISTANCE AFFECTING PENICILLIN-BINDING PROTEIN 2A
A JOUSSELIN\(^1\), C MANZANO\(^1\), A BIETTE\(^1\), P REED\(^2\), M PINHO\(^2\), A ROSATO\(^3\), W.L. KELLEY\(^4\), A RENZONI\(^5\)
\(^1\)Service of Infectious Diseases, University Hospital and Medical School of Geneva, 4 rue Gabrielle-Perret Gentil CH-1205 Geneva, Switzerland, \(^2\)Laboratory of Bacterial Cell Biology, Instituto de Tecnologia Química e Biológica António Xavier, Universidade Nova de Lisboa, Oeiras, Portugal, \(^3\)Houston Methodist Research Institute, 6670 Bertner Ave., Houston, TX 77030, USA

**10:00-10:15**  O-140  CHARACTERIZATION OF ABERRANT BODIES SUBTYPES IN WADDLIA CHONDROPHILA
A. SCHERLER\(^1\), N. JACQUIER\(^1\), G. GREUB\(^1\)
\(^1\)Institute of Microbiology, University Hospital Center and University of Lausanne, Lausanne, Switzerland

**10:15-10:30**  O-70  INCREASED RESISTANCE TO CARBAPENEMS IN PROTEUS MIRABILIS CAUSED BY AMPLIFICATION OF THE BLAVIM-1 GENE
S. BONTRON\(^1\), L. POIREL\(^1\), G. KUEFFER\(^1\), E. SAVOV\(^2\), P. NORDMANN\(^1\)
\(^1\)Emerging Antibiotic Resistance Unit, Medical and Molecular Microbiology, Department of Medicine, Faculty of Science, University of Fribourg, Switzerland, \(^2\)Laboratory of Microbiology, Military Medical Academy, Sofia, Bulgaria

**10:30-11:00**  Coffee Break

Session I: The envelope – from walls to molecules; continued
Chaired by Hubert Hilbi

**11:00-11:15**  O-152  THE HETERODIMERIC ABC TRANSPORTER EFRCD MEDIATES MULTIDRUG EFFLUX IN ENTEROCOCCUS FAECALIS
L. M. HÜRLIMANN\(^1\), M.A. SEEGER\(^1\)
\(^1\)Institute of Medical Microbiology, University of Zurich, 8006 Zürich, Switzerland

**11:15-11:30**  O-144  COLISTIN RESISTANCE PLASMID PVT553 IN AVIAN PATHOGENIC ESCHERICHIA COLI
C STRAUSS\(^1\), D GERBER\(^2\), V PERRETTEN\(^1\)
\(^1\)Institute of Veterinary Bacteriology, Vetsuisse Faculty, University of Bern, Bern, Switzerland, \(^2\)V-Tech, Midrand, South Africa
11:30-11:45 O-66  RPIRC IS A REGULATOR OF STAPHYLOCOCCUS AUREUS BIOFILM SUSCEPTIBILITY TO ANTIBIOTICS AND VIRULENCE
A FISCHER1, M GIRARD1, P FRANÇOIS1, J SCHRENZEL1
1Genomic Research Laboratory, Department of Medical Specialties, Geneva University Hospitals, 1211 Geneva 14, Switzerland.

11:45-12:00 O-194 PSEUDOMONAS AERUGINOSA IN VIVO OUTER MEMBRANE PROTEOME: ROLE OF SIMPLE PORINS
J.M. BUYCK,1, P. SAINT AUGUSTE1, C. SCHLEBERGER1, D. BUMANN1
1Focal area infection biology, Biozentrum, University of Basel, Basel, Switzerland.

12:00-12:15 O-137 IDENTIFICATION OF THE ENTIRE GENOMIC PROTEIN CODING POTENTIAL OF PROKARYOTES
U OMASITS1, AR VARadarajan1, DJ STEKHOVEN2, M QUEBATTE3, M ROBINSON2, C DEHIO2, CH AHRENS3
1Agroscope, Institute for Plant Production Sciences, 8820 Wädenswil, Switzerland, 2SIB, Swiss Institute of Bioinformatics, 8057 Zurich, Switzerland, 3Biozentrum, Infection Biology Unit, University of Basel, 4056 Basel, Switzerland

12:15-12:30 O-143 GENETIC VARIABILITY AND LIMITED CLONALITY OF MYCOPLASMA HYORHINIS IN PIG HERDS
B TRÜEB1, E CATELLI3, A LÜHRS3, H NATHUES4, P KUHNERT1
1Institute of Veterinary Bacteriology, Vetsuisse Faculty, University of Bern, Switzerland, 2Department of Veterinary Science, University of Parma, Italy, 3Field Station for Epidemiology, University of Veterinary Medicine Hannover, Foundation, Bakum, Germany, 4Clinic for Swine, Department of Clinical Veterinary Medicine, Vetsuisse Faculty, University of Bern, Switzerland

12:30-14:00 Lunch Break

14:00-15:30 Session II: The 3 Cs – cytoplasm, chromatin and chaperones
Chaired by Patrick Viollier

14:00-14:30 THE COMPLEX LIFE OF POISONS, ANTIDOTES AND THEIR CHAPERONES
PIERRE GENEVAUX, FRANCE, TOULOUSE

14:30-15:00 LEGIONELLA TRANSLOCATED EFFECTORS: HOW TO KILL ONE BIRD WITH MANY STONES?
HUBERT HILBI, SWITZERLAND, ZÜRICH

14:30-14:45 O-151 MULTIPLE APPROACHES TO DISCOVER NEW T3SS EFFECTORS OF CHLAMYDIALES BACTERIA
L PILLOUX1, C KEBBI-BEGHDADI1, A CROXATTO1, G GREUB1
1Center for Research on Intracellular Bacteria (CRIB), Institute of Microbiology, University Hospital Center and University of Lausanne, Lausanne, Switzerland

14:45-15:00 O-147 TYPE VI SECRETION SYSTEM SUBSTRATES ARE TRANSFERRED AND REUSED AMONG SISTER CELLS
A VETTIGER1, M BASLER1
1Focal Area Infection Biology, Biozentrum, University of Basel, Basel, Switzerland
15:00-15:15  O-42  IDENTIFICATION AND CHARACTERIZATION OF A W. CHONDROPHILA EFFECTOR SECRETED IN THE HOST CYTOPLASM
C KEBBI-BEGHDADI, L PILLOUX, G GREUB
1Center for Research on Intracellular Bacteria (CRIB), Institute of Microbiology, University Hospital Center and University of Lausanne, Lausanne, Switzerland

15:15-15:30  O-184  µFACS - A MULTI-PARAMETRIC HIGH-CONTENT IMAGE ANALYSIS APPROACH TO STUDY CO-INFECTIONS ACROSS PATHOGENS
1Institute of Molecular Life Sciences, University of Zurich, Switzerland, 2Division of Infectious Diseases and Hospital Epidemiology, University Hospital Zurich, University of Zurich, Switzerland

15:30-16:00  Coffee Break

16:00-18:00  Session III: Cell biology – seeing is believing
Chaired by Hubert Hilbi

16:30-17:00  HOW BACTERIAL CELL BIOLOGY CAN HELP IDENTIFYING THE MODE OF ACTION OF ANTIMICROBIAL COMPOUNDS
LEENDERT HAMOEN, NL, AMSTERDAM

17:00-17:15  O-100  CHARACTERIZING INDIVIDUAL DONOR CELL FATES DURING HORIZONTAL GENE TRANSFER OF AN INTEGRATIVE AND CONJUGATIVE ELEMENT
F DELAVAT, S MITRI, S PELET, JR VAN DER MEER
1Department of Fundamental Microbiology - University of Lausanne – Switzerland

17:15-17:30  O-146  REGULATORY ROLE OF CAMR IN CELL CYCLE CONTROLLED CAPSULATION AND MOTILITY IN CAULOBACTER CRESCENTUS
EZGI EROGLU, SILVIA ARDISONE, PATRICK VIOLLIER
1Department of Microbiology and Molecular Medicine, University of Geneva, 1211 Geneva 4, Switzerland

17:30-17:45  O-58  BOVINE CATHELICIDINS HAVE POTENT BACTERICIDAL EFFECT AGAINST MASTITIS PATHOGENS AND MEDIATE SENSING OF BACTERIAL NUCLEIC ACIDS BY THE IMMUNE SYSTEM
MS KIENER, A BAUMANN, A SUMMERFIELD
1Institute of Virology and Immunology, University of Bern, Länggassstrasse 122, 3012 Bern, Switzerland

17:45-18:00  O-15  CAN BIOFILM BE EFFICIENTLY REMOVED FROM ENDOSCOPES? DEVELOPMENT AND EVALUATION PROCESS OF AN ENZYMATIC CLEANER
P STIEFEL, S MAUERHOFER, S ALTERNIED, J SCHNEIDER, K MANIURA-WEBER, U ROSENBERG, Q REN
1Laboratory for Biointerfaces, Swiss Federal Laboratories for Materials Science and Technology (Empa), Lerchenfeldstrasse 5, CH-9014 St. Gallen, Switzerland,
2Borer Chemie AG, Gewerbestrasse 13, 4528 Zuchwil, Switzerland

Students’ Party
19:30 Eventforum Bern
June 13, 2016

Swiss Virology Symposium 2016
Foyer Nord

09:00-09:15 Welcome
by Volker Thiel, Stephen Leib, Meri Gorgievski

09:15-10:30 Session I: Antiviral defense
Chaired by Stephen Leib and Volker Thiel

09:15-09:45 ANTIVIRAL DEFENSE IN THE PHYTOPATHOGENIC FILAMENTOUS ASCOMYCETE, CRYPHONECTRIA PARASITICA
NOBUHIRO SUZUKI, JAPAN, OKAYAMA

09:45-10:00 O-170 RESPIRATORY VIRAL INFECTIONS IN RECONSTITUTED HUMAN AIRWAY EPITHELIA
M. ESSAIDI-LAZIOSI¹, S. BENAOUA¹, M. FERNANDEZ-ROCHA¹, S. CONSTANT¹,
L. KAISER¹, C. TAPPAREL¹
¹Laboratory of Caroline Tapparel, Faculty of medicine of Geneva

09:45-10:00 O-170 RESPIRATORY VIRAL INFECTIONS IN RECONSTITUTED HUMAN AIRWAY EPITHELIA
M. ESSAIDI-LAZIOSI¹, S. BENAOUA¹, M. FERNANDEZ-ROCHA¹, S. CONSTANT¹,
L. KAISER¹, C. TAPPAREL¹
¹Laboratory of Caroline Tapparel, Faculty of medicine of Geneva

10:00-10:15 O-178 SUMOYLATION IN THE REGULATION OF ANTIVIRAL HOST INNATE IMMUNITY
C. PATZINA¹, F. GOLEBIOWSKI¹, B.G. HALE¹
¹Institute of Medical Virology, University of Zurich, Zurich, Switzerland

10:15-10:30 O-168 INVESTIGATION OF IFITM INCORPORATION INTO INFLUENZA A VIRUS PARTICLES AND ITS CONSEQUENCES ON VIRUS INFECTIVITY
C. LANZ¹, E.E. MÜLLER¹, S. STERTZ¹
¹Institute of Medical Virology, University of Zurich, Zurich, Switzerland

10:30-11:00 Coffee Break

11:00-12:30 Session II: Virological toolbox
Chaired by Meri Gorgievski and Stephen Leib

11:00-11:30 XCELLIGENCE® IMPEDANCE-BASED, LABEL-FREE, REAL-TIME CELL ANALYSIS SYSTEMS: A NEW METHOD FOR INNOVATIVE SOLUTIONS IN VIRAL STUDIES
MARI GORGIEVSKI-HRISOHO, CH, BERN

11:30-12:00 NEXT GENERATION SEQUENCING AS A HELPFUL TOOL FOR VIRUS DETECTION
CLAUDIA BACHOFEN, CH, ZÜRICH

12:00-12:15 O-155 PERSISTENT MAMMALIAN ORTHOREOVIRUS INFECTION IN A CHILD WITH PRIMARY IMMUNODEFICIENCY DETECTED BY METAGENOMIC SEQUENCING
D. W. LEWANDOWSKA¹*, R. CAPAUL¹*, S. PRADER⁰, O. ZAGORDI¹,
F. D. GEISSBERGER¹, M. KNORR¹, C. BERGER³, D. NADAL³, T. GÜNGÖR⁴,
J. REICHENBACH⁷, J. BÖNI¹, A. ZBINDEN¹, A. TRKOLA¹, J. PACHLOPNIK SCHMID⁷*,
¹Institute of Medical Virology, University of Zurich, Zurich, Switzerland
‡National Reference Center for Orthoreoviruses, Institute of Virology, University of Bern, Bern, Switzerland
³Institute of Medical Virology, University of Geneva, Geneva, Switzerland
⁴Institute of Medical Virology, University of Gothenburg, Gothenburg, Sweden
⁵Institute of Medical Virology, University of Italy, Verona, Italy
⁶Institute of Medical Virology, University of Strasbourg, Strasbourg, France
⁷Institute of Medical Virology, University of Bern, Bern, Switzerland
*Corresponding authors

19
SINGLE-CELL ANALYSIS APPROACH TO IDENTIFY CELLULAR BIOMARKERS FOR HIV PERMISSIVENESS

12:15-12:30

O-164

M. HUBER1*

1Institute of Medical Virology, University of Zurich, 2Division of Immunology, University Children’s Hospital Zurich, 3Division of Infectiology and Hospital Hygiene, University Children’s Hospital Zurich, 4Division of Stem Cell Transplantation, University Children’s Hospital Zurich, Switzerland; *shared authorship.

12:30-14:00
Lunch Break

14:00-15:30
Session III: Basic Virology (supported by CUSO)

Chairled by Mathias Schweizer and Stefan Kunz

14:00-14:30

NOVEL ANTIVIRAL STRATEGIES: PEPTIDES, RNAI AND CRISPR-CAS

BEN BERKHOUT, NL, AMSTERDAM

14:30-14:45

WHAT’S IN THE COWS’ BRAIN? –TACKLING THE ETIOLOGY OF BOVINE ENCEPHALITIS BY VIRAL METAGENOMICS

1Interfaculty Bioinformatics Unit, University of Bern and Swiss Institute of Bioinformatics, 3001 Bern, Switzerland; , 2Graduate School for Cellular and Biomedical Sciences, University of Bern, 3001 Bern, Switzerland, 3NeuroCenter, Division of Neurological Sciences, Vetsuisse Faculty, University of Bern, Bern, Switzerland

14:45-15:00

VIRAL BUDDING REGULATED BY A CRITICAL RESIDUE LOCATED AT THE PUTATIVE DIMERIC INTERFACE OF THE CANINE DISTEMPER VIRUS MATRIX PROTEIN

1Department of Microbiology and Molecular Medicine, University of Geneva, Geneva, Switzerland

15:00-15:15

HAX-1 INHIBITS VIRAL REPLICATION OF AVIAN INFLUENZA A VIRUSES AND IS COUNTERACTED BY PB1-F2

1Department of Microbiology and Molecular Medicine, University of Geneva, Geneva, Switzerland

15:15-15:30

RESTRICTED SIRNA SCREEN REVEALS DIFFERENTIAL EFFECTS OF CELLULAR PROTEINS ON GENE EXPRESSION FROM SINGLE-STRANDED AND DOUBLE-STRANDED AAV2 VECTORS

1Institute of Virology, University of Zürich, Zürich, Switzerland

2Institute of Molecular Life Sciences, University of Zürich, Zürich, Switzerland

20
15:30-16:00 Coffee Break

16:00-18:00 Session IV: Basic Virology*
Chairied by Volker Thiel and Matthias Schweizer

16:00-16:30 EMERGING HUMAN CORONAVIRUSES – PATHOGENESIS AND PROTECTION
Luis Enjuanes, Spain, Madrid

16:30-16:45 O-159 EARLY ENDORIBONUCLEASE-MEDIATED EVASION OF RNA SENSING ENSURES EFFICIENT CORONAVIRUS REPLICATION* E Kindler1, J Spanier2, C Gil-Cruz3, Y Li4, MH Hwang5, M Keller6, J Ziebuhr1, U Kalinke2, V Thiel8

1 Federal Department of Home Affairs, Institute of Virology and Immunology, Bern and Mittelhäusern, Switzerland, 2 Institute for Experimental Infection Research, Twincore, Hannover, Germany, 3 Institute of Immunobiology, Cantonal Hospital, St.Gallen, Switzerland, 4 Department of Microbiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, USA, 5 Department of Neurosciences, Lerner Research Institute, Cleveland Ohio, USA, 6 Institute of Novel and Emerging Infectious Diseases, Friedrich-Loeffler-Institut, Greifswald-Insel Riems, Germany, 7 Institute for Medical Virology, University of Giessen, Giessen, Germany, 8 Department of Infectious Diseases and Pathobiology, University of Bern, Bern, Switzerland

16:45-17:00 O-165 MEMBRANE REMODELING PROPERTIES OF CORONAVIRUS NON-STRUCTURAL PROTEIN 6 AND ITS ROLE IN REPLICATION COMPARTMENT FORMATION P V Kovski1, V Gaschen2, M Stoffel2, V Thiel3

1 Federal Institute of Virology and Immunology, Mittelhäusern and Bern, Switzerland; Graduate School for Cellular and Biomedical Sciences, University of Bern, Switzerland, 2 Vetsuisse Faculty, Division Veterinary Anatomy, University of Bern, Bern, Switzerland., 3 Federal Institute of Virology and Immunology, Mittelhäusern and Bern, Switzerland; Vetsuisse Faculty, Department of Infectious Diseases and Pathobiology, University of Bern, Bern, Switzerland.

17:00-17:15 O-171 INFECTIOUS BAT-DERIVED INFLUENZA A VIRUS (H18N11) REVEALS A CELL TYPE-SPECIFIC BUT NOT SPECIES-SPECIFIC TROPISM G. Zimmer1, E. Moreira2, H. Bolte2, S. Locher1, M. Juozapaitis2, T. Aylillo2, A. García-Sastre3, M. Schwemmle2

1 Institute of Virology and Immunology (IVI), Mittelhäusern, Switzerland, 2 Institute of Virology, Medical Center, University of Freiburg, Freiburg, Germany, 3 Icahn School of Medicine at Mount Sinai, New York, New York, USA

17:15-17:30 O-172 NOVEL BAT INFLUENZA VIRUS NS1 PROTEINS: USUAL AND UNUSUAL FEATURES H.L. Turkington1, B.G. Hale1

1 Institute of Medical Virology, University of Zürich, Zürich, Switzerland
17:30-17:45  O-173  GENERATION AND CHARACTERIZATION OF NOVEL INFLUENZA A REPORTER VIRUSES ENCODING A VARIETY OF FLUORESCENT AND LUMINESCENT REPORTER AS WELL AS A CRE-RECOMBINASE
P. REUTHER\textsuperscript{1}, K. GÖPFERT\textsuperscript{2}, A. DUDEK\textsuperscript{2}, D. DORNFELD\textsuperscript{2}, M. SCHWEMMLE\textsuperscript{2}
\textsuperscript{1}Department of Biomedicine, Experimental Virology, University of Basel, 4009 Basel, Switzerland, \textsuperscript{2}Department of Virology, University of Freiburg, 79104 Freiburg, Germany

17:45-18:00  O-153  LAUSANNEVIRUS AND ESTRELLA LAUSANNENSIS EVOLUTIONARY DYNAMICS
L. MUELLER\textsuperscript{1}, T. PILLONEL\textsuperscript{1}, C. BERTELLI\textsuperscript{2}, N. SALAMIN\textsuperscript{3}, G. GREUB\textsuperscript{1}
\textsuperscript{1}Institute of Microbiology, Lausanne University Hospital and University of Lausanne, Lausanne, Switzerland, \textsuperscript{2}SIB Swiss Institute of Bioinformatics, Lausanne, Switzerland, \textsuperscript{3}Department of Ecology and Evolution, University of Lausanne, Lausanne, Switzerland

**Students’ Party**
19:30  Eventforum Bern
June 13, 2016

Swiss Environmental Microbiology Symposium 2016
Foyer Süd

09:00-09:15  Welcome
by Christof Holliger

09:15-10:30  Session I
Chaired by Christof Holliger

09:15-09:45  THE ECOLOGY OF MICROBIAL BIOFILMS IN STREAMS
Tom Battin, CH, Lausanne

09:45-10:00  O-99 SNOW IS MORE THAN FROZEN WATER – THE BACTERIAL BIOGEOGRAPHY OF HIGH ALTITUDE SNOW
Twunderlin¹, B Ferrari², M Power³
¹Molecular Ecology, Agroscope Reckenholz, 8046 Zurich, Switzerland, ²School of Biotechnology and Biomolecular Sciences, University of New South Wales, Sydney 2052, Australia, ³Department of Biological Sciences, Macquarie University, Sydney 2109, Australia

10:00-10:15  O-91 LINKING HIGH-RESOLUTION METHANE-OXIDATION RATES TO BACTERIAL COMMUNITY STRUCTURE IN FOUR STRATIFIED SWISS LAKES
Mayr¹,², Zimmermann¹,², ABrand¹,², Bürmann¹
¹Eawag, Swiss Federal Institute of Aquatic Science and Technology, Department of Surface Waters – Research and Management, 6047 Kastanienbaum, Switzerland , ²ETH Zurich, Institute of Biogeochemistry and Pollutant Dynamics, 8092 Zurich, Switzerland

10:15-10:30  O-64 PLASMID-BORNE MCR-1 COLISTIN RESISTANCE GENE IN ESBL-PRODUCING ENTEROBACTERIACAE IN RIVER WATER AND IMPORTED VEGETABLES IN SWITZERLAND
Zurfluh¹, Poirel¹, Nordmann², Nüesch-inderbinen¹, Hächer¹, Stephan¹
¹Institute for Food Safety and Hygiene, Vetsuisse Faculty University of Zurich Winterthurerstrasse 272, 8057 Zurich, Switzerland , ²Emerging Antibiotic Resistance Unit, Department of Medicine, Faculty of Science, University of Fribourg, 1701 Fribourg, Switzerland

10:30-11:00  Coffee Break

11:00-12:30  Session II
Chaired by Christof Holliger

11:00-11:30  PHYTOPLANKTON CHYTRIDS: UNKNOWN, UNLOVED, UNDERESTIMATED
Bastiaan Ibelings, CH, Geneva

11:30-11:45  O-79 ENDOSPORE-FORMING FIRMICUTES DOMINATE BACTERIAL COMMUNITIES ACROSS THERMAL GRADIENTS IN NISYROS VOLCANO
Palmieri¹, S. Filippidou¹, P Junier¹
¹Laboratory of Microbiology, University of Neuchâtel, Neuchâtel, Switzerland
<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
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<tr>
<td>11:45-12:00</td>
<td>O-85</td>
<td>FLUORESCENT PSEUDOMONAS BACTERIA AS TOOLS FOR MONITORING AND IMPROVING THE HEALTH OF AGRICULTURAL SOILS IN SWITZERLAND</td>
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<td>N IMPERIALI¹, F DENNERT², F MASCHER³, M FESSELET⁴, T TURLINGS⁴, R CAMPOS HERRERA⁴, M MAURHOFER², C KEEL¹</td>
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<td>¹Department of Fundamental Microbiology, University of Lausanne, Switzerland, ²Institute of Integrative Biology, ETH Zurich, Switzerland, ³Institute for Plant Production Sciences, Agroscope Changins, Switzerland, ⁴Laboratory for Fundamental and Applied Research in Chemical Ecology, University of Neuchâtel, Switzerland</td>
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<td>12:00-12:15</td>
<td>O-81</td>
<td>FOLDING OF COMPLEX REDOX PROTEINS BY DEDICATED MOLECULAR CHAPERONES</td>
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<td>C GROB¹, Z JULIER¹, J MAILLARD¹</td>
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<td>¹Laboratory for Environmental Biotechnology, ENAC-IIE-LBE, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland</td>
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<td>12:15-12:30</td>
<td>O-88</td>
<td>IMMEDIATE GENOME-WIDE TRANSCRIPTIONAL RESPONSE OF PSEUDOMONAS VERONII STRAIN 1YDBTEX2 TO TOluene IN Soil</td>
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<td>M MORALES¹, V SENTCHILO¹, J VAN DER MEER¹</td>
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| 12:30-14:00| Lunch Break |
14:00-15:30  Session III
Chaired by Jan Roelof Van der Meer

14:00-14:30  MICROEVOLUTIONARY TRADE-OFFS AND TRAJECTORIES IN A MODEL FRESHWATER PREDATOR-PREY SYSTEM
JAKOB PERNTHALER, CH, ZÜRICH

14:30-14:45  O-93  TWO NEW INTEGRATIVE CONJUGATIVE ELEMENTS IN PSEUDOMONAS AZELAICA HBP-1 ARE RESPONSIBLE FOR THE ADAPTATION TO THE POLLUTED ENVIRONMENT
V SENTCHILO\textsuperscript{1}, L CHALUPOVA\textsuperscript{1}, J VAN DER MEER\textsuperscript{1}
\textsuperscript{1}Department of Fundamental Microbiology, University of Lausanne, Biophore, UNIL-Sorge, 1015 Lausanne

14:45-15:00  O-82  COMPETITION OF TWO SULFUROSPIRILLUM POPULATIONS FOR TETRACHLOROETHENE
G BUTTET\textsuperscript{1}, C HOLLIGER\textsuperscript{1}, J MAILLARD\textsuperscript{1}
\textsuperscript{1}Laboratory for Environmental Biotechnology, ENAC-IIIE-LBE, Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

15:00-15:15  O-103  BIOGEOGRAPHY IN THE WESTERN SWISS ALPS: UNDERSTANDING THE INTERPLAYS AMONG BACTERIA, PLANTS, AND THE ENVIRONMENT
E. YASHIRO\textsuperscript{1}, E. PINTO\textsuperscript{2}, A. BURI\textsuperscript{2}, H. NICULITA-HIRZEL\textsuperscript{4}, A. ANTOINE GUISAN\textsuperscript{2}, J. R. VAN DER MEER\textsuperscript{1}
\textsuperscript{1}University of Lausanne, Department of Fundamental Microbiology, 1015 Lausanne, \textsuperscript{2}University of Lausanne, Department of Ecology and Evolution, 1015 Lausanne, \textsuperscript{3}University of Lausanne, Institute of Earth Surface Dynamics, 1015 Lausanne, \textsuperscript{4}Institut Universitaire Romand du Santé au Travail, 1066 Epalinges-Lausanne

15:15-15:30  O-95  TRACKING BIOTRANSFORMATION OF HEXACHLOROCYCLOHEXANE ISOMERS BY COMPOUND-SPECIFIC ISOTOPE ANALYSIS
I. E. SCHILLING\textsuperscript{1}, I. E. SCHILLING\textsuperscript{2}, T. B. HOFSTETTER\textsuperscript{1}, T. B. HOFSTETTER\textsuperscript{2},
H.-P. E. KOHLER\textsuperscript{2}, H.-P. E. KOHLER\textsuperscript{2}
\textsuperscript{1}Eawag, Swiss Federal Institute of Aquatic Science and Technology, Duebendorf, Switzerland, \textsuperscript{2}IBP, Institute of Biogeochemistry and Pollutant Dynamics, ETH Zürich, Swiss Federal Institute of Technology Zurich, Zurich, Switzerland

15:30-16:00  Coffee Break

16:00-18:00  Session IV
Chaired by Christof Holliger

16:00-16:30  COMBINING STABLE ISOTOPE LABELLING AND SINGLE-CELL ANALYSIS TO ELUCIDATE THE FUNCTION OF MICROORGANISMS IN SOIL
DAGMAR WOECKEN, A, WIEN

16:30-16:45  O-84  A MICROFLUIDIC CHIP TO MEASURE BACTERIAL CHEMOTAXIS IN A BIOSENSORY PERSPECTIVE
C. ROGGO\textsuperscript{1}, J. R. VAN DER MEER\textsuperscript{1}
\textsuperscript{1}Department of Fundamental Microbiology, University of Lausanne
INFLUENCE OF ENVIRONMENTAL FACTORS ON SOIL MICROBIAL DIVERSITY AT ARABLE- AND GRASSLAND SITES ACROSS SWITZERLAND

FGSWEND\textsuperscript{1}, FWIDMER\textsuperscript{1}

\textsuperscript{1}Molecular Ecology, Institute for Sustainability Sciences, Agroscope, 8046 Zürich, Switzerland

COOPERATION IN CARBON SOURCE DEGRADATION SHAPES SPATIAL SELF-ORGANIZATION OF SURFACE-ATTACHED MICROBIAL CONSORTIA

RTECON\textsuperscript{1}, DOR\textsuperscript{1}

\textsuperscript{1}Department of Environmental Systems Science, ETH Zürich, 8092 Zürich, Switzerland

EVOLUTION OF MICROBIAL COMMUNITIES AND NUTRIENT REMOVAL PERFORMANCES IN AEROBIC GRANULAR SLUDGE SEQUENCING BATCH REACTOR DURING CHANGE OF SUBSTRATE

AADLER\textsuperscript{1}, VBERCLAZ\textsuperscript{1}, MHorisberger\textsuperscript{1}, JMAILLARD\textsuperscript{1}, CHOLLIGER\textsuperscript{1}

\textsuperscript{1}Laboratory for Environmental Biotechnology, ENAC-IIE-LBE, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland

BACTERIAL IRON REDUCTION PROPERTIES FOR HEALING CORRODED IRON ARTEFACTS

WAFA KOOLI\textsuperscript{1}, PILAR JUNIER\textsuperscript{1}, EDITH JOSEPH\textsuperscript{1}

\textsuperscript{1}Laboratory of Microbiology, University of Neuchâtel, Neuchâtel, Switzerland

Students’ Party

19:30 Event forum Bern
**June 13, 2016**

**Swiss Mycology Symposium 2016**
Kongressraum 4

**09:00-09:05** Welcome
by Dominique Sanglard

**09:05-10:40** Session I: Fundamental mycology, Yeast Molecular Biology
Chaired by Serge Pelet

09:05-09:35 HOW DO CELLS DISTINGUISH SELF FROM NON-SELF DNA? INSIGHTS FROM FUNGI
Yves Barral, CH, Zürich

09:35-09:55 RAPID ASYMMETRIC INDUCTION OF MEIOSIS PREVENTS POLYPLOIDY IN FISSION YEAST
Aleksandar Vjestica, CH, Lausanne

09:55-10:10 DYNAMIC MEASUREMENT OF KINASE ACTIVITY IN LIVE SINGLE CELL
**Ed Durandau**¹, **MM MA**¹, **DA Aymoz**¹, **SP Pelet**¹
¹Département de Microbiologie Fondamentale

10:10-10:25 NGS FOR "NO-PAIN GENETIC SCREENS": USING TRANSPOSONS AND NEXT-GEN SEQUENCING TO UNVEIL ALL IMPORTANT YEAST LOCI IN ONE GO
A.H. Michel¹, P. Kimmig¹, B. Kornmann¹
¹ETHZ, Institute for Biochemistry/ Otto-Stern-Weg 3, 8093 Zürich

10:25-10:40 CHARACTERIZATION OF A NEW VIRULENCE GENE IN CANDIDA ALBICANS
S. Amorim-Vaz², V Tran², S. Pradervand², M. Pagni², A. Coste¹, D. Sanglard¹
¹Institute of Microbiology, University Hospital Lausanne and University Hospital Center, Lausanne, Switzerland, ²Vital-IT Group, SIB Swiss Institute of Bioinformatics, Lausanne, Switzerland

**10:40-11:00** Coffee Break

**11:00-12:30** Session II: Fungal Interactions
Chaired by Pilar Junier

11:00-11:30 IMPROVING THE WORLDS FOOD SUPPLY USING MICROBES: THE POWER OF FUNGAL GENETICS
Ian Sanders, CH, Lausanne

11:30-11:45 HIGH-RESOLUTION COMMUNITY PROFILING OF ARBUSCULAR MYCORRHIZA
**K Schlaepf**¹, **F Bender**¹, **M Van der Heijden**¹
¹Plant-Soil-Interactions, Institute for Sustainability Sciences, Agroscope, Zürich, Switzerland
11:45-12:00 O-123 ROOT MICROBIOME DYNAMICS IN RESPONSE TO PHOSPHATE 
*N BODENHAUSEN^1, M VAN DER HEIJDEN^1, K SCHLAEPPI^1
^1Institute for Sustainability Science, Agroscope, Switzerland, Reckenholzstr. 191, 8046 Zurich

12:00-12:15 O-124 ENHANCED ACCESS TO ORGANIC NITROGEN AS A DIRECT BENEFIT IN 
THE INTERACTION OF THE FUNGUS MORCHELLA CRASSIPES WITH SOIL 
BACTERIA
*A. LOHBERGER (1,3 - AFFILIATION NUMBERS)^1, JE SPANGENBERG^2
Y VENTURA^1, N JEANNERET^1, K JEANNERET^1, S BINDSCHEDLER^1
R BSHARY^1, E VERRECCHIA^2, P JUNIER^1
^1Laboratory of Microbiology, Institute of Biology, University of Neuchâtel. Rue Emile-Argand 11, 2000, Neuchâtel, Switzerland, ^2Institute of Earth Surface Dynamics, University of Lausanne, Géopolis, 1015 Lausanne, Switzerland, ^3Laboratory of Biogeosciences, Institute of Earth Sciences, University of Lausanne. Géopolis, 1015 Lausanne, Switzerland

12:15-12:30 O-107 DIFFERENTIAL SUPPRESSION OF PATHOGENIC AND SAPROPHYTIC 
FUNGI BY NATURALLY OCCURRING YEASTS
*F. M. FREIMOSER^1
^1Federal Department of Economic Affairs, Education and Research EAER, Agroscope, Institute for Plant Production Sciences IPS, Schloss 1, P.B., 8820 Wädenswil, Switzerland.

12:30-14:00 Lunch Break

14:00-15:30 Session III
Chaired by Salomé Leibundgut-Landmann

14:00-14:30 NOVEL INSIGHTS IN ANTIFUNGAL HOST-DEFENSE
*FRANK VAN DE VEERDONK, NL, Nijmegen

14:30-14:50 O-109 TH17 CELLS AND THEIR ROLE IN PROTECTIVE IMMUNITY TO 
VULVOVAGINAL CANDIDIASIS
*R MARZI^1, G GYUELVESZI^1, S BECATTINI^1, B BECHER^2, S LEIBUNDGUT-LANDMANN^1, F SALLUSTO^1
^1Institute for Research in Biomedicine, Università della Svizzera Italiana, Bellinzona, Switzerland, ^2Institute of Experimental Immunology, University of Zurich, Zurich, Switzerland, ^3Section of Immunology, Institute of Virology, University of Zurich, Zurich, Switzerland

14:50-15:05 O-114 IMPACT OF NATURAL DIVERSITY OF C. ALBICANS ON THE BALANCE 
BETWEEN FUNGAL COMMENSALISM AND PATHOGENICITY IN VIVO
*F SCHÖNHERR^1, C FRAGOSO-CORTI^2, O PETRINI^3, S LEIBUNDGUT-LANDMANN^1
^1Section of Immunology, Vetsuisse Faculty, University of Zürich, Winterthurerstrasse 266a, 8057 Zürich, Switzerland, ^2Laboratory of Applied Microbiology, DACD, SUPSI, Via Mirasole 22A, 6500 Bellinzona, Switzerland, ^3POLE Pharma consulting, Breganzona, Switzerland
O-118 The role of neutrophil extracellular traps during systemic C. albicans infection
E Guiducci1, S Leibundgut-Landmann1
1Section of Immunology, Vetsuisse Faculty, University of Zürich, Switzerland

O-104 How genomic plasticity contributes to virulence evolution in a fungal pathogen of wheat
D Croll1, F Hartmann1
1ETH Zurich, Institute for Integrative Biology, 8092 Zurich

Coffee Break

Session IV: Antifungal development

FRIEND OR FOE? HOW YEAST GENETICS HELPS TO IDENTIFY NOVEL ANTIFUNGAL TARGETS
Dominic Hoepfner, CH, Novartis Basel

Identification of a plant natural product targeting fungal human pathogens
S Dorsaz2, Q Favre-Godal2, E Ferreira Queiroz2, K Gindro3, H Riezmann2, J-L Wolfender2, D Sanglard1
1Institute of Microbiology, University Hospital of Lausanne, Lausanne, Switzerland, 2School of pharmaceutical sciences, University of Geneva, University of Lausanne, Switzerland, 3Swiss Federal Research Station, Agroscope Changins Wädenswil ACW, Switzerland, 4Department of Biochemistry, University of Geneva, Switzerland

Identification of mediators of antifungal tolerance in Candida albicans
E Delarze1, S Znaid2, M Legrand2, M Arendrup3, C Munro4, C D’Enfert2, D Sanglard1
1University of Lausanne and University Hospital Center, Lausanne, Switzerland, 2Pasteur Institute, Paris, FRANCE, 3Statens Serum Institut, Copenhagen, DENMARK, 4University of Aberdeen, Aberdeen, UNITED KINGDOM

Selection, sex and sweeps; resistance evolution of the DMI target gene CYP51
PC Brunner1, BA Mcdonald1
1ETH Zurich, Universitaetstrasse 2, 8092 Zurich

Biocontrol of Diabrotica virgifera virgifera in maize – assessing effects of biocontrol agents on soil microbial communities
J Mayerhofer1, H Rauch2, Co Pabst3, A Leuchtmann4, M Hartmann6, H Strasser6, F Widmer1, J Jenker1
1Molecular Ecology, Institute for Sustainability Sciences, Agroscope, 8046 Zurich,
17:30-17:45 O-128 DE NOVO ASSEMBLY OF THE PNEUMOCYSTIS JIROVECII SUBTELOMERIC GENE FAMILIES ENCODING VARYING SURFACE ANTIGENS

1 Vital-IT Group, SIB Swiss Institute of Bioinformatics, Lausanne, Switzerland
2 Institute of Microbiology, Lausanne University Hospital and University of Lausanne, Lausanne, Switzerland

17:45-18:00 CONCLUDING WORDS

D. SANGLARD

Students’ Party

19:30 Eventforum Bern
### SSM Annual Meeting 2016

#### June 14, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-09:15</td>
<td>Welcome and Introduction</td>
</tr>
<tr>
<td>09:15-10:15</td>
<td>Plenary Session A: Microbe-host interaction</td>
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<td>Kongressraum 1</td>
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<td>Chaired by Volker Thiel and Gilbert Greub</td>
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<tr>
<td>09:15-09:45</td>
<td>Influenza virus-host interactions</td>
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<td>Adolfo Garcia-Sastre, USA, New York</td>
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<td>09:45-10:15</td>
<td>The Drosophila-Spiroplasma interaction as a model to dissect the molecular mechanisms underlying insect endosymbiosis</td>
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<td>Bruno Lemaitre, CH, Lausanne</td>
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<td>10:15-11:00</td>
<td>Coffee Break</td>
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<tr>
<td>11:00-12:30</td>
<td>Parallel Sessions I – IV</td>
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<td>11:00-12:15</td>
<td>Session I: Microbe evolution</td>
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<td>Kongressraum 1</td>
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<td>Chaired by Dominique Sanglard and Stefan Kunz</td>
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<td>11:00-11:30</td>
<td>MOLECULAR MECHANISMS OF VIRUS ESCAPE TO MUTAGENIC AND NON-MUTAGENIC INHIBITORS</td>
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<td>ESTEBAN DOMINGO, SPAIN, MADRID</td>
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<td>11:30-12:00</td>
<td>EXPERIMENTAL EVOLUTION OF FUNGAL PATHOGENS IN IMMUNE CELLS</td>
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<td>SASCHA BRUNKE, GERMANY, JENA</td>
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<td>12:00-12:15</td>
<td>O-39 ROLE OF PROPHAGES IN GENOME PLASTICITY, VIRULENCE AND HOST TROPISM: CONDITIONING OF STPAHYLOCoccus Aureus CC398 Human-Adapted Strains</td>
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<td>F LAUMAY(^1), AR CORVAGLIA(^1), SM DIENE(^1), N VAN DER MEE-MARQUET(^2), P FRANCOIS(^1)</td>
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<td>(^1)Genomic Research Lab, Department of Infectious Diseases Geneva University Hospital Rue Gabrielle-Perret-Gentil 4 CH-1211 GENEVA 14 SWITZERLAND, (^2)CHRU de Tours, Département de Microbiologie et Hygiène, Hôpital Trousseau, Réseau des Hygiénistes du Centre RHC, UMR 1282, Infectiologie Santé Publique, Université de Tours, 37044 TOURS cedex</td>
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<td>11:00-12:30</td>
<td>Session II: Microbe entry</td>
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<td>Chaired by Vincent Perreten and Silke Stertz</td>
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<td>11:00-11:30</td>
<td>ENTRY OF CHLAMYDIA</td>
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<td>RAY A. CARABEO, UK, LONDON</td>
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11:30-12:00 HOW LIPID SIGNALING TUNES NON-ENVELOPED VIRUS INFECTIONS
URS GREBER, CH, ZÜRICH

12:00-12:15 O-177 PHOSPHORYLATION EVENTS IN EARLY STEPS OF INFLUENZA A VIRUS INFECTION
E. YÁNGÜEZ¹, M.P. DOBAY², S. STERTZ³
¹Institute of Medical Virology, University of Zurich, Zurich, Switzerland. , ²Swiss Institute of Bioinformatics, Lausanne, Switzerland.

12:15-12:30 O-34 VON WILLEBRAND BINDING PROTEIN, BUT NOT STAPHYLOCOAGULASE, IS INVOLVED IN THE INITIATION OF STAPHYLOCOCCUS AUREUS EXPERIMENTAL INFECTIVE ENDOCARDITIS
S. MANCINI¹, F. OECHSLIN³, C. MENZI¹, Y.A. QUE¹, T.R. VELOSO², P. MOREILLON¹, J.M. ENZENGA¹
¹Department of Fundamental Microbiology, UNIL, Lausanne, Switzerland, ²Department of Cardiovascular Sciences, KU Leuven, Leuven, Belgium
June 14, 2016

**SSM Annual Meeting 2016**

**Session III: Host Responses to Microbes**
Foyer Süd  
Chaired by Salomé Leibundgut-Landmann and Annelies Zinkernagel

11:00-11:30  
**THE MATERNAL MICROBIOTA SHAPES DEVELOPMENT OF THE NEONATAL INNATE IMMUNE SYSTEM**  
KATHLEEN McCoy, CH, BERN

11:30-12:00  
**THE LUNG MICROBIOTA SHAPES HOST INNATE IMMUNITY**  
ERIC BERNASCONI, CH, LAUSANNE

12:00-12:15  
**DISORDERED NASAL MICROBIOTA WITHIN THE FIRST YEAR OF LIFE IN INFANTS WITH CYSTIC FIBROSIS**  
**M MIKA**, **I KORTEN**, **W QI**, **N REGAMEY**, **U FREY**, **C CASAULTA**, **P LATZIN**, **M HILTY**, **SCILD STUDY GROUP**  
1Institute for Infectious Diseases, University of Bern, Bern, Switzerland, 2Division of Respiratory Medicine, Department of Pediatrics, Inselspital and University of Bern, Bern, Switzerland, 3Functional Genomics Center, Swiss Federal Institute of Technology Zurich/ University of Zurich, Zurich, Switzerland, 4University Children’s Hospital (UKBB), Basel, Switzerland, 5SCILD Study Group, Switzerland

12:15-12:30  
**HEPATITIS C VIRUS STIMULATES MURINE CD8A-LIKE DENDRITIC CELLS TO PRODUCE TYPE I INTERFERON IN A TRIF-DEPENDENT MANNER**  
1Institute of Experimental Virology, TWINCORE, Centre for Experimental and Clinical Infection Research, Hannover, Germany, 2Institute for Experimental Infection Research, TWINCORE, Centre for Experimental and Clinical Infection Research, Hannover, Germany, 3Department of Molecular Immunology, Helmholtz Centre for Infection Research, Braunschweig, Germany

**Session IV: Clinical Virology**
Kongressraum 4  
Chaired by Meri Gorgievski and Stephen Leib

11:00-11:30  
**EXPECTED AND LESS EXPECTED CHALLENGES IN CLINICAL VIROLOGY**  
LAURENT KAISER, CH, GENEVA

11:30-12:00  
**EVOLUTION IN VIRAL DIAGNOSTICS – PHYSICIANS’S EXPECTATION AND ANALYTICAL REALITY**  
SAMUEL ZÜRCHER, CH, BERN

12:00-12:15  
**HETEROGENEOUS ANTIGENIC PROPERTIES OF THE PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS (PRRSV) NUCLEOCAPSID AMONG GENOTYPE I STRAINS**  
**J RAPPE**, **N RUGGLI**  
1Institute of Virology and Immunology IVI, Sensemattstrasse 293, 3147 Mittelhäusern, Switzerland
O-156 MULTI-RESISTANCE OF ENTEROVIRUS TO UV254 DISINFECTION AND MUTAGENIC NUCLEOTIDE ANALOGS IS LINKED TO MODIFICATIONS IN THE REPLICATION MACHINERY
A CARRATALÁ1, V BACHMANN1, Q ZHONG1, T KOHN1
1Environmental Chemistry Laboratory, School of Architecture, Civil and Environmental Engineering. École Polytechnique Fédérale de Lausanne (EPFL).

12:30-14:00 Lunch Break

13:00-14:00 Lunchworkshop: Bruker, Association for Medical Quality Control Zurich, ProbioSwiss GmbH, Culture Collection of Switzerland AG
Kongressraum 1
Chaired by Reinhard Zbinden, Zürich

13:00-13:30 MALDI-TOF: BEYOND IDENTIFICATION
ADRIAN EGLI, UNIVERSITY HOSPITAL OF BASEL, CH.

13:30-13:45 INTERNAL QUALITY OF MALDI-TOF – ASPECTS OF ACCREDITATION
BETTINA SCHULTHESS, INSTITUTE OF MEDICAL MICROBIOLOGY, ZURICH

13:45-14:00 DEPOSITION OF BIOLOGICAL MATERIAL IN A PUBLIC CULTURE COLLECTION
SILVANO LANDERT, CULTURE COLLECTION OF SWITZERLAND, WÄDENSWIL, CH

14:00-15:30 Poster Session I
Poster with even number will be presented; Poster walks with selected Posters
June 14, 2016

SSM Annual Meeting 2016

14:30-15:30 Mini-symposium on Education and Outreach on Microbiology
“Making the bridge: talking about epidemic outbreak to the broad public”
Foyer Nord
Chaired by Karl Perron and Aurélia Weber

14:30-15:00 PERCEPTION IS REALITY
CHRISTEN DARCY, CHUV, CH, LAUSANNE

15:00-15:15 O-202 MICROBIOLOGY DAY: A TRUE 10-YEARS EXPERIENCE FROM GENEVA
LINDER PATRICK,
Professor of Microbiology, Director of the Department of Microbiology and Molecular Medicine University of Geneva Medical School, President of the Biology Platform, Swiss Academy of Science.

15:15-15:30 O-203 CLEAN CARE IS SAFER CARE: ACHIEVING PATIENT AND PUBLIC SAFETY
PIRES DANIELA, GENEVA, HUG
Dr. Pittet Group - 1. Infection Control Programme and WHO Collaborating Centre on Patient Safety - Infection Control & Improving Practices, University of Geneva Hospitals and Faculty of Medicine, Geneva, Switzerland - 2. Department of Infectious Diseases, Centro Hospitalar Lisboa Norte and Faculdade de Medicina da Universidade de Lisboa, Lisbon, Portugal

15:30-16:15 Welcome-Apéro

16:00-17:30 Parallel Sessions V - VIII

Session V: Systems Microbiology
Kongressraum 1
Chaired by Beat Christen and Jacques Schrenzel

16:00-16:30 SINGLE-CELL ANALYSIS OF SALMONELLA VIRULENCE AND THERAPY IN INFECTED HOST TISSUES
DIRK BUMANN, CH, BASEL

16:30-17:00 VARIABILITY IN BACTERIAL CHEMOTACTIC SIGNALING REVEALED BY FRET IN SINGLE CELLS
TOM SHIMIZU, AMSTERDAM

17:00-17:15 O-158 A SYSTEMS SURVEY OF PROGRESSIVE HOST CELL REORGANISATION DURING ROTAVIRUS INFECTION
V. A. GREEN1, L. PEKLMANS1
1Institute of Molecular Life Sciences, University of Zurich, Winterhurerstrasse 190, Zurich 8057, Switzerland

17:15-17:30 O-145 PROTEOME-WIDE DISCOVERY OF ENZYME ACTIVITIES IN ESCHERICHIA COLI USING NONTARGETED METABOLICOMICS
DC SÉVIN1, U SAUER1
1Institute of Molecular Systems Biology, ETH Zurich
Session VI: Antibiotics and antibiotic resistance
Foyer Nord
Chaired by Reinhard Zbinden and Vincent Perreten

16:00-16:30 AMINOGLYCOSIDES – DRUG DEVELOPMENT
ERIK C. BOTTGER, CH, ZÜRICH

16:30-17:00 ACQUIRED RESISTANCE TO POLYMYXINS IN ENTEROBACTERIAECEAE; MECHANISMS AND DETECTION METHODS
LAURENT POIREL, CH, FRIBOURG

17:00-17:15 O-51 TRENDS IN ANTIMICROBIAL SUSCEPTIBILITY AND CLONALITY OF NEISSERIA GONORRHOEAE ISOLATES COLLECTED FROM 1989 TO 2015 IN SWITZERLAND
V DONÀ¹, S KASRAIAN¹, R ZBINDEN², B SAVIC³, F IMERI³, H FURRER³, N LOW⁵, A ENDIMIANI²
¹Institute for Infectious Diseases, University of Bern, Bern, Switzerland, ²Institute of Medical Microbiology, University of Zurich, Zurich, Switzerland, ³Laborgemeinschaft 1, Zurich, Switzerland, ⁴Department of Infectious Diseases, Bern University Hospital, University of Bern, Bern, Switzerland, ⁵Institute of Social and Preventive Medicine, University of Bern, Bern, Switzerland

17:15-17:30 O-6 DECIPHERING MECHANISMS OF (HETERO) RESISTANCE TO COLISTIN IN ACINETOBACTER BAUMANNII
Y. CHARRETIER¹, S. M. DIENE¹, D. BAUD¹, S. CHATELLIER², E. SANTIAGO-ALLEXANT³, A. VAN BELKUM⁴, G. GUIGON³, J. SCHRENZEL¹
¹Genomic Research Laboratory, Service of Infectious Diseases, Geneva University Hospitals, Geneva Switzerland, ²Innovation Unit, bioMérieux SA, La Balme Les Grottes, France, ³Innovation Unit, bioMérieux SA, Marcy l’Etoile, France, ⁴R&D Microbiology Unit, bioMérieux SA, La Balme Les Grottes, France
Session VII: Dual Use Research of Concern (DURC) – Public Discussion
Foyer Süd
Chaired by Volker Thiel and Stephen Leib

16:00-16:20 MOLECULAR BIOCONTAINMENT
ADOLFO GARCIA-SASTRE, USA, NEW YORK

16:20-16:40 LIFE SCIENCE RESEARCH MEETS EXPORT CONTROLS: THE DUAL USE PROBLEM
CÉDRIC INVERNIZZI, CH, SPIEZ

16:40-17:00 GOVERNING SYNTHETIC BIOLOGY: BALANCING RISKS AND BENEFITS
JOYCE TAIT, UK, EDINBURGH

17:00-17:30 Round Table discussion

Session VIII: Microbe replication
Kongressraum 4
Chaired by Gilbert Greub and Cornel Freafel

16:00-16:30 GIANT VIRUSES AND VIROPHAGES: OVERVIEW AND INSIGHT IN THEIR REPLICATION AND CO-EVOLUTION
MATTHIAS FISCHER, D, HEIDELBERG

16:30-17:00 COMING FULL CIRCLE: CELL DIVISION IN FREE-LIVING AND OBLIGATE INTRACELLULAR BACTERIA
PATRICK VIOLLIER, CH, GENEVA

17:00-17:15 O-139 CHARACTERIZATION OF NOVEL MEMBERS OF THE CHLAMYDIAL DIVISOME THAT LINK SEPTUM FORMATION AND PEPTIDOGLYCAN REMODELLING
NJACQUIER, PH VIOLLIER, G GREUB
1Institute of Microbiology, University Hospital Center and University of Lausanne, Lausanne, Switzerland, 2Department of Microbiology & Molecular Medicine, Institute of Genetics & Genomics in Geneva (iGE3), Faculty of Medicine / CMU, University of Geneva, Switzerland

17:15-17:30 O-75 ACTIVE VERSUS DORMANT: ADAPTATIONS OF FIRMICUTES TO THRIVE IN SALINE ENVIRONMENTS
S FILIPPIDOU, T JUNIER, T WUNDERLIN, I PALMIERI, N JEANNERET, P JUNIER
1Laboratory of Microbiology, Institute of Biology, University of Neuchâtel, Neuchâtel, Switzerland, 2Vital-IT group, Swiss Institute of Bioinformatics, Lausanne, Switzerland

17:30-18:30 Annual Assembly of the SSM
Kongressraum 1

19:00 Gala Dinner
Kultur Casino Bern, Grosser Saal
(Herregasse 25 CH – 3011 BERN)

The SSM award and the SULM Richterich Medals will be granted
June 15, 2016

SSM Annual Meeting 2016

09:00-10:15  **Plenary Session B: Looking back to the past**
Kongressraum 2  
Chaired by Stephen Leib and Gilbert Greub

09:00-09:35  **INTENTIONAL TRANSMISSION OF HIV AND HCV BY INJECTION OF BLOOD – THE BERNE CRIMINAL CASE**  
STEFAN ZIMMERLI, CH, BERN

09:35-10:15  **PALEOMICROBIOLOGY OF PLAGUE**  
MICHEL DRANCOURT, MARSEILLE, FRANCE

10:15-11:00  **Coffee Break**

11:00-12:30  **Parallel Sessions IX – X**

**Session IX: Symbionts**
Foyer Süd  
Chaired by Pilar Junier and Nicolas Jacquier

11:00-11:30  **ENDOSYMBIOSIS: HOW BACTERIA CONTRIBUTED TO CURRENT METABOLIC CAPACITIES OF PLANT PLASTIDS**  
STEPHEN BALL, FRANCE, PARIS

11:30-12:00  **LEAF NODULE SYMBIOSIS**  
LEO EBERL, CH, ZÜRICH

12:00-12:15  **O-142 THE GROWTH CYCLE OF SIMKANIA NEGEVENSIS IN PNEUMOCYTES AND ENDOMETRIAL CELLS AND EVIDENCES FOR THE IMPLICATION OF THIS AMOEBA SYMBIONT IN HUMAN DISEASES?**  
M. VOUGA¹, D. BAUD², G. GREUB¹  
¹Center for Research on Intracellular Bacteria, Institute of Microbiology, Faculty of Biology and Medicine, University of Lausanne and University Hospital, Lausanne, Switzerland, ²Materno-fetal and Obstetrics Research Unit, Department “Femme-Mère-enfant”, Maternity, University Hospital, Lausanne, Switzerland

12:15-12:30  **O-149 THE ESSENTIAL GENOME OF THE PLANT ENDOSYMBIONT SINORHIZOBIUM MELILOTI CULTURED IN RICH AND MINIMAL MEDIA**  
C.E. FLORES-TINOCO¹, F. TSCHAN¹, M. BARNETT², M. CHRISTEN¹, S. LONG², B. CHRISTEN¹  
¹IMSB, ETH Zürich, CH-8093 Zürich, Switzerland, ²Stanford University, Stanford, CA 94305, USA
Session X: Epigenetics
Kongressraum 4
Chaired by Patrick Viollier and Beat Christen

11:00-11:30 DNA METHYLATION, CLONAL HETEROGENEITY AND SALMONELLA VIRULENCE
MARJAN VAN DER WOUDE, UK, YORK

11:30-12:00 BACTERIAL METHYLOME ANALYSIS WITH PACBIO DATA
LAURENT FALQUET, CH, Fribourg

12:00-12:30 THE SPATIAL AND TEMPORAL CONTROL OF TRANSCRIPTION BY THE CELL
CYCLE REGULATOR GCRA DEPENDS ON DNA METHYLATION IN CAULOBACTER
CRESCENTUS
EMANUELE BIONDI, FRANCE, MARSEILLE
June 15, 2016

SSM Annual Meeting 2016

12:30-14:00  Lunch Break

13:00 – 14:00  Lunchworkshop: BioMérieux
              Foyer Nord

14:00-15:30  Poster Session II
              Poster with odd numbers will be presented; Poster walks with selected Posters

14:30-15:30  Mini-symposium on Education and Outreach on Microbiology
              “From lab with love: how to promote scientific education using microbiology”
              Foyer Nord
              Chaired by Karl Perron and Massimo Caine

14:30-15:00  MIXED CULTURES: ENGAGING THE PUBLIC WITH MICROBIOLOGY USING THE ARTS AND HUMANITIES
              JOANNA VERRAN, UK, MANCHESTER METROPOLITAN UNIVERSITY

15:00-15:15  O-204 PLAYING WITH MICROBES: DEVELOPING A GAME TO ENHANCE THE POPULATION KNOWLEDGE ON THE THREATS AND PREVENTION OPPORTUNITIES RELATED TO EMERGING PATHOGENS
              C KEBBI-BEGHDADI¹, G GREUB¹
              ¹Center for Research on Intracellular Bacteria (CRIB), Institute of Microbiology, University Hospital Center and University of Lausanne, Lausanne, Switzerland

15:15-15:30  O-205 NEW BUSINESS OPPORTUNITY (NBO) IN MICROBIAL BIOTECHNOLOGY: AN INNOVATIVE EDUCATIONAL PROGRAMME
              KARIN KOVAR
              Institute of Chemistry and Biotechnology, School of Life Sciences and Facility Management, Zurich University of Applied Sciences ZHAW

15:30-16:15  Coffee Break

16:15-17:30  Plenary Session C, SSM Awards and Closure of SSM Annual Assembly 2016
              Kongressraum 1

16:15-16:45  Plenary Session C
              Chaired by Alexis Dumoulin
              Digital Health and Epidemiology: Opportunities and Challenges
              Marcel Salathé, CH, Lausanne

16:45-17:00  SSM Award and lecture of Award Winner
              O-148 GCRA/CCRM EPGENETIC MODULE IN BACTERIAL CELL CYCLE CONTROL AND HOST-PATHOGEN INTERACTIONS
              G. PANIS¹, M. DELABY¹, C. FUMEAUX¹, L. THERAULAZ¹, P.H. VIOLLIER¹
              ¹Department of Microbiology & Molecular Medicine, Faculty of Medicine, University of Geneva, Switzerland.

Info on SSM Annual Assembly in Basel 2017

End of meeting
MINI-SYMPOSIUM ON EDUCATION AND OUTREACH ON MICROBIOLOGY

Dear members,

We are glad to inform you that the SSM, in the context of its annual meeting, is organizing a specific session dedicated to Education and Outreach. Here you will have the possibility to listen to outstanding international speakers active in the field of microbiology education and communication. Furthermore, thanks to a dedicated schedule, you may also present your past, present or future experiences in communicating microbiology either during a poster session or by giving a short talk.

In the latter case an abstract-based selection will be performed, thus we kindly invite you to submit your abstract during the enrollment process. In the abstract submission web page, a specific section is available entitled “education and outreach” that need to be specifically selected.

The session will be divided in two days. The first day (14.06) will focus on "Making the Bridge: Talking about Epidemic Outbreak to the Broad Public". The second day (15.06) will focus on "From the Lab with Love: How to Promote Scientific Education Using Microbiology".

Looking forward to meeting you there
Massimo Caine, Karl Perron and Aurélia Weber

DUAL USE RESEARCH OF CONCERN (DURC) – PUBLIC DISCUSSION

Dear members,

“Dual Use Research of Concern” (DURC) is of importance for many microbiologists and the SSM will organize a specific session to hear world-leading experts on this topic and to have a public discussion afterwards. Don’t miss the opportunity to discuss the benefits and concerns of our Science with the experts and the audience.

We look forward to seeing you on Tuesday, June 14th, at 4pm (Session VII).
Stephen Leib and Volker Thiel
In this SULM program, please note that two sessions are especially related to microbiology:
- A session on rapid tests (chaired by J Schrenzel)
- A session on sepsis (chaired by G Greub)

See the following website for details:
http://www.sulm.ch/d/swissmedlab

Rapid tests:
June 15th
11:00–12:30, PW21, Raum 2
Chair: Prof. Jacques Schrenzel, Genève
Dr. Désirée Mayor, Bern: Immunographische Anwendungen
Prof. Gilbert Greub, Lausanne: Tests moléculaires
Prof. Raymond Auckenthaler, Augsburg: Place de POCT – Microbiologie dans les laboratoires médicaux en réseau

SEPSIS:
June 15th
14:30- 16:00
OUTCOME: The Impact of Diagnostic Tests in Sepsis
Chair: Prof. Gilbert Greub
Prof. Jacques Schrenzel: Impact of mass spectrometry in the etiological diagnosis of bacteremia
Dr. Alexander Kutz: Procalcitonine - added value for the diagnosis of sepsis
PD Dr. Werner Albrich: Pros and cons of using biomarkers versus clinical decisions in start/stop decisions for antibiotics in the ICU
Gael Panis will receive the SSM Award during the gala dinner
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