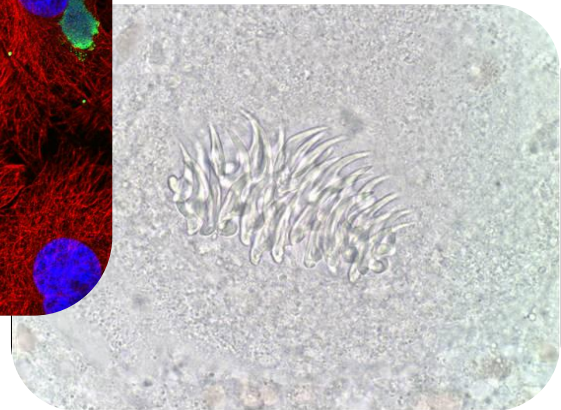
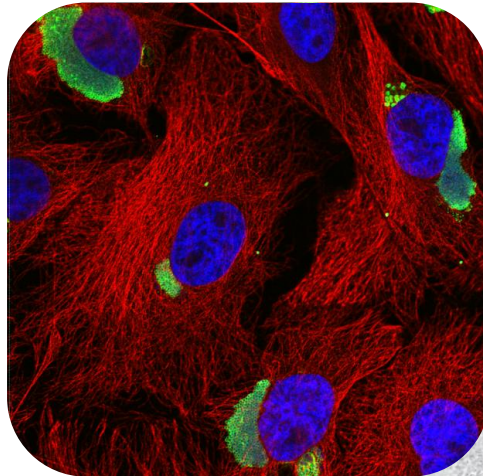




SGM-SSM

SWISS SOCIETY FOR MICROBIOLOGY
SOCIÉTÉ SUISSE DE MICROBIOLOGIE
SOCIETÀ SVIZZERA DI MICROBIOLOGIA
SCHWEIZERISCHE GESELLSCHAFT FÜR MIKROBIOLOGIE



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)

WELCOME TO SSM MICROBIOLOGY MEETING

EVOLUTION

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 :

Barbara Gautschi, Meri Gorgievski-Hrisoho, Christine Herzig, Stephen Leib, Vincent Perreten, Volker Thiel.

SCIENTIFIC COMMITTEE :

Beat Christen, Alexis Dumoulin, Reto Lienhard, Adrian Egli, Reno Frei, Meri Gorgievski, Gilbert Greub, Christof Holliger, Pilar Junier, Stephen Leib, Salome Leibundgut-Landmann, Vincent Perreten, Karl Perron, Dominique Sanglard, Jacques Schrenzel, Volker Thiel, Patrick Viollier, Andrea Zbinden, Reinhard Zbinden, Annelies Zinkernagel.

Students' party and SSM invited speakers event



June 13, 2016 from 7.30pm until midnight

EVENTFORUM BERN



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 Bremgartenstrasse
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:

| | | | | | |
|---------------|-----------|--------------------------------|-----------------------------|------------|--------------------------|
| Albrich | Werner | SULM Session 15.06.2016 | Ruppe | Etienne | Session I 13.06.16 |
| Auckenthaler | Raymond | SULM Session 15.06.2016 | Salathé | Marcel | Pl.Session III 15.06.16 |
| Bachofen | Claudia | Session II 13.06.16 | Sanders | Ian | Session II 13.06.16 |
| Ball | Steven | Session IX 15.06.16 | Schrenzel | Jacques | SULM Session 15.06.2016 |
| Barral | Yves | Session I 13.06.16 | Shimizu | Tom | Session V 14.06.16 |
| Battin | Tom | Session I 13.06.16 | Suzuki | Nobuhiro | Session I 13.06.16 |
| Berkhout | Ben | Session III 13.06.16 | Tait | Joyce | Session VII 14.06.16 |
| Bernasconi | Eric | Session III 14.06.16 | Van de Veerdonk | Frank | Session III 13.06.2016 |
| Biondi | Emanuele | Session X 15.06.16 | Van der Woude | Marjan | Session X 15.06.16 |
| Bodmer | Thomas | BD Symposium 13.06.16 | Verran | Joanna | Po.Session II 15.06.16 |
| Böttger | Erik C. | Session VI 14.06.16 | Vila | Jordil | Po Session IV 13.06.16 |
| Brunke | Sascha | Session I 14.06.16 | Vjestica | Aleksandar | Session I 13.06.16 |
| Bumann | Dirk | Session V 14.06.16 | Vollmer | Waldemar | Session I 13.06.16 |
| Caine | Massimo | Mini Symposium 15.06.16 | Weber | Aurélia | Mini Symposium 14.06.16 |
| Carabeo | Ray A. | Session II 14.06.16 | Woebken | Dagmar | Session IV 13.06.16 |
| Darcy | Christen | Po.Session I 14.06.16 | Zbinden | Reinhard | Workshop Bruker 14.06.16 |
| Domingo | Esteban | Session I 14.06.16 | Zimmerli | Stefan | Pl.Session II 15.06.16 |
| Drancourt | Michel | Session II 15.06.16 | Zürcher | Samuel | Session IV 14.06.16 |
| Dubreuil | Luc | Workshop Axonlab 13.06.16 | | | |
| Eberl | Leo | Session IX 15.06.16 | | | |
| Enjuanes | Luis | Session IV 13.06.16 | <i>Organising Committee</i> | | |
| Ernberg | Tobias | Session I+II 13.06.16 | Christen | Beat | Organising committee |
| Falquet | Laurent | Session X 15.06.16 | Dumoulin | Alexis | Organising committee |
| Fischer | Matthias | Session VIII 14.06.16 | Egli | Adrian | Organising committee |
| Garcia-Sastre | Adolfo | Pl.Session I + S. VII 14.06.16 | Frei | R. | Organising committee |
| Genevaux | Pierre | Session II 13.06.16 | Gorgievski | Meri | Organising committee |
| Gorgievski- | Meri | Session II 13.06.16 | Greub | Gilbert | Organising committee |
| Greber | Urs | Session II 14.06.16 | Holliger | Christof | Organising committee |
| Greub | Gilbert | SULM Session 15.06.2016 | Junier | Pilar | Organising committee |
| Helsloot | Alina | Session I+ II 13.06.16 | Leib | Stephen | Organising committee |
| Hilbi | Hubert | Session II 13.06.16 | Leibundgut | Salome | Organising committee |
| Hoepfner | Dominic | Session IV 13.06.16 | Lienhard | Reto | Organising committee |
| Ibelings | Bastiaan | Session II 13.06.16 | Perreten | Vincent | Organising committee |
| Invernizzi | Cédric | Session VII 14.06.16 | Perron | Karl | Organising committee |
| Jaton-Ogay | Katia | Session III 13.06.16 | Sanglard | Dominique | Organising committee |
| Kaiser | Laurent | Session IV 14.06.16 | Schrenzel | Jacques | Organising committee |
| Kutz | Alexander | SULM Session 15.06.2016 | Thiel | Volker | Organising committee |
| Leendert | Hamoen | Session III 13.06.16 | Viollier | Patrick | Organising committee |
| Lemaitre | Bruno | Pl.Session I 14.06.16 | Zbinden | Reinhard | Organising committee |
| Mayor | Désiré | SULM Session 15.06.2016 | Zbinden | Andrea | Organising committee |
| McCoy | Kathleen | Session III 14.06.16 | Zinkernagel | Annelies | Organising committee |
| Pernthaler | Jakob | Session III 13.06.16 | | | |
| Poirel | Laurent | Session VI 14.06.16 | | | |
| Rossen | John WA | Session II 13.06.16 | | | |

OVERVIEW OF THE SSM PART OF THE MEETING

MONDAY 13th JUNE 2016

| Hour | SYMPOSIUMS | | | | |
|-------------|---|---|--|---|--|
| 9:00-12:30 | Swiss Clinical Microbiology Kongressraum 1 (p.11-12) | Swiss Prokaryotic Biology Kongressraum 2 (p.16-17) | Swiss Virology Foyer Nord (p.19-20) | Swiss Environmental Microbiology Foyer Süd (p.23-24) | Swiss Mycology Kongressraum 4 (p.27-28) |
| 13:00-14:00 | BD Symposium Kongressraum 1 (p.13) | | Students Skills and Career Workshop Foyer Nord (p.13) | | |
| 14:00-18:00 | Swiss Clinical Microbiology Kongressraum 1 (p.12-15) *AxonLAB Symposium | Swiss Prokaryotic Biology Kongressraum 2 (p.17-18) | Swiss Virology Foyer Nord (p. 20-22) | Swiss Environmental Microbiology Foyer Süd (p.25-26) | Swiss Mycology Kongressraum 4 (p.28-30) |

*AxonLAB Symposium: 16h00-16h45

OVERVIEW OF THE SSM ANNUAL MEETING

TUESDAY 14th JUNE 2016

| Hour | SYMPOSIUMS | | | |
|-------------|--|---|---|--|
| 9:00-10:15 | <p align="center">Microbe-host Interaction Plenary Session A Kongressraum 1 (p.31)</p> | | | |
| 11:00-12:30 | <p>Microbe evolution Kongressraum 1 (p.31)</p> | <p>Microbe entry Foyer Nord (p.31-32)</p> | <p>Host Responses to Microbes Foyer Süd (p.33)</p> | <p>Clinical Virology Kongressraum 4 (p.33-34)</p> |
| 13:00-14:00 | <p align="center">Workshop: Bruker and others Kongressraum 1 (p.34)</p> | | | |
| 14:00-14:30 | <p align="center">Posters (even numbers) (p.34)</p> | | | |
| 14:30-15:30 | <p>Making the bridge: talking about epidemic outbreak to the broad public Foyer Nord (p.35)</p> | | <p align="center">Posters (even numbers) (p.34)</p> | |
| 16:00-17:30 | <p>Systems Microbiology Kongressraum 1 (p.35)</p> | <p>Clinical Microbiology Foyer Nord (p.36)</p> | <p>Dual Use Research of Concern Foyer Süd (p.37)</p> | <p>Microbe Replication Kongressraum 4 (p.37)</p> |
| 17:30-18:30 | <p align="center">Annual Assembly of the SSM Kongressraum 1 (p.37)</p> | | | |

OVERVIEW OF THE SSM ANNUAL MEETING

WEDNESDAY 15th JUNE 2016

| Hour | SYMPOSIUMS | |
|-------------|---|---|
| 9:00-10:15 | <p>Looking back to the past Plenary Session B Kongressraum 2 (p.38)</p> | |
| 11:00-12:30 | <p>Symbionts Foyer Süd (p.38)</p> | <p>Epigenetics Kongressraum 4 (p.39)</p> |
| 13:00-14:00 | <p>Workshop: BioMérieux Foyer Nord (p.40)</p> | |
| 14:00-14:30 | | |
| 14:30-15:30 | <p>From the lab with love: how to promote scientific education using microbiology Foyer Nord (p.40)</p> | <p>Posters (odd numbers) (p.40)</p> |
| 16:15-16:45 | <p>Digital Health and Epidemiology: Opportunities and Challenges Plenary Session C Kongressraum 1 (p.40)</p> | |
| 16:45-17:00 | <p>SSM Award and lecture of Award Winner Kongressraum 1 (p.40)</p> | |
| 17:00-17:30 | <p>Closure of Annual Assembly 2016 & Info SSM Annual Assembly in Basel 2017 Kongressraum 1 (p.40)</p> | |

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. WITTEW³, A. GOESMANN², M.G.A. VAN DER HEIJDEN³, 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

Chaired 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 BOSKOVA⁵, C GARZONI⁶, M DOLINA⁷, B BLÜMEL⁸, S TSCHUDIN³, AF WIDMER³ JA. BIELICKI⁹, U. HEININGER⁹, R. KONRAD², A. BERGER², V. HINIC¹, D. GOLDENBERGER¹, A. BLAICH¹, T. STADLER⁵, M. BATTEGAY³, 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, ⁶Department of Internal medicine and Infectious Diseases, Clinica Luganese, Switzerland, ⁷Clinical Microbiology, EOLAB, Bellinzona, Switzerland, ⁸Institute of Medical Microbiology and Hygiene, University Medical Centre Freiburg, Germany, ⁹ Paediatric 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 GREUB^{1,3}

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 KARUMIDZE¹, O.J. BERNASCONI¹, D JGENT², M GODERDZISHVIL², 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

13:00-14:00

Students' Skills and Career Workshop

Foyer Nord
Chaired by Alexis Dumoulin

13:00-13:30

How to get published
Alina Helsloot, Elsevier, NL, Amsterdam

13:30-14:00

How to find a job outside of academia
Tobias Ernberg, Coulter Partners, CH, Eysins

13:00-14:00

Lunchworkshop: BD Symposium

Kongressraum 1
Chaired by Thomas Bodmer and Gilbert Greub

13:00-13:30

AUTOMATED IDENTIFICATION AND QUANTIFICATION OF MICROBIAL GROWTH IN BOTH DEFINED AND CLINICAL SAMPLES
ANTONY CROXATTO, INSTITUT DE MICROBIOLOGIE, CHUV LAUSANNE, CH

13:30-14:00

IMPACTS OF LAB AUTOMATION ON ORGANIZATION AND WORKFLOW IN THE LABORATORY
IRENE BURCKHARDT, DEPARTEMENT FOR INFECTIOUS DISEASES MEDICAL MICROBIOLOGY AND HYGIÈNE, HEIDELBERG

14:00-15:30

Session III: Molecular Diagnostics and Serology

Chaired by Jacques Schrenzel and Meri Gorgievski

14:00-14:30

AUTOMATION IN MOLECULAR DIAGNOSIS: OPPORTUNITIES AND DIFFICULTIES
KATIA JATON-OGAY, CH, LAUSANNE

14:30-14:45

O-48 LABORATORY DIAGNOSIS OF ACUTE NEUROBORRELIOSIS – HOW AN UNSPECIFIC MARKER MIGHT GIVE A MORE SPECIFIC ANSWER
R. LIENHARD¹, L. VON ALLMEN², L. BERTAIOLA-MONNERAT³, A. DUMOULIN⁴, M.L. TRITTEN¹, H.H. SIEGRIST¹
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

14:45-15:00

O-56 VISCERAL LEISHMANIASIS IN A LUNG TRANSPLANT RECIPIENT: USEFULNESS OF HIGHLY SENSITIVE REAL-TIME POLYMERASE CHAIN REACTION FOR PRE-EMPTIVE DIAGNOSIS
O OPOTA¹, Z BALMPOUZIS², C BERUTTO³, J KAISER-GUIGNARD⁴, G GREUB¹, J-D AUBERT², G PROD'HOM¹, O MANUEL⁵, K JATON¹
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

- 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 BASSETT², GM BALESTRA³, S MARSCH³, H PARGGER⁴, M WEISSER¹, A EGLI⁵
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 JOUSSELIN¹, C MANZANO¹, A BIETTE¹, P REED², M PINHO², A ROSATO³, W.L. KELLEY¹, A RENZONI¹
¹Service of Infectious Diseases, University Hospital and Medical School of Geneva, 4 rue Gabrielle-Perret Gentil CH-1205 Geneva, Switzerland, ²Laboratory of Bacterial Cell Biology, Instituto de Tecnologia Química e Biológica António Xavier, Universidade Nova de Lisboa, Oeiras, Portugal., ³Houston 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. SCHERLER¹, N. JACQUIER¹, G. GREUB¹
¹Institute 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. BONTRON¹, L. POIREL¹, G. KUEFFER¹, E. SAVOV², P. NORDMANN¹
¹Emerging Antibiotic Resistance Unit, Medical and Molecular Microbiology, Department of Medicine, Faculty of Science, University of Fribourg, Switzerland, ²Laboratory 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. HÜRLIMANN¹, M.A. SEEGER¹
¹Institute 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 STRAUSS¹, D GERBER², V PERRETEN¹
¹Institute of Veterinary Bacteriology, Vetsuisse Faculty, University of Bern, Bern, Switzerland, ²V-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. BUYCK¹, 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 DEHIO³, CHAHRENS²
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 CATELLI², 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*¹, *L PILLOUX*¹, *G GREUB*¹
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 μ FACS - A MULTI-PARAMETRIC HIGH-CONTENT IMAGE ANALYSIS APPROACH TO STUDY CO-INFECTIONS ACROSS PATHOGENS
*A. YAKIMOVICH*¹, *C. RACHMÜHL*², *A. RUDNICKA*¹, *D. SEILER*¹, *R. WITTE*¹, *V ANDRIASYAN*¹, *Y. YAMAUCHI*¹, *A. S. ZINKERNAGEL*², *U. F. GREBER*¹
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*¹, *S MITRI*¹, *S PELET*¹, *JR VAN DER MEER*¹
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*¹, *SILVIA ARDISSONE*¹, *PATRICK VIOLLIER*¹
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*¹, *A BAUMANN*¹, *A SUMMERFIELD*¹
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*¹, *S MAUERHOFER*², *S ALTENRIED*¹, *J SCHNEIDER*¹, *K MANIURA-WEBER*¹, *U ROSENBERG*², *Q REN*¹
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, CRYPTONECTRIA PARASITICA

NOBUHIRO SUZUKI, JAPAN, OKAYAMA

09:45-10:00

O-170 RESPIRATORY VIRAL INFECTIONS IN RECONSTITUTED HUMAN AIRWAY EPITHELIA

M. ESSAIDI-LAZIOSI¹, S. BENAOUZIA¹, 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. GOLEBIEWSKI¹, 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

MERI 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. LEWANDOWSKA^{1*}, R. CAPAUL^{1*}, S. PRADER², O. ZAGORDI¹, F. D. GEISSBERGER¹, M. KNORR¹, C. BERGER³, D. NADAL³, T. GÜNGÖR⁴, J. REICHENBACH², J. BÖNI¹, A. ZBINDEN¹, A. TRKOLA¹, J. PACHLOPNIK SCHMID^{2*},

M. HUBER^{1*}

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.

12:15-12:30

O-164 SINGLE-CELL ANALYSIS APPROACH TO IDENTIFY CELLULAR BIOMARKERS FOR HIV PERMISSIVENESS

S. SRATO¹, A. RAUSELL¹, S. QUENNEVILLE¹, M. MUÑOZ¹, A. TELENTI², A. CIUFFI¹

¹Institute of Microbiology, University of Lausanne, Lausanne, Switzerland, ²J. Craig Venter Institute, La Jolla, USA

12:30-14:00

Lunch Break

14:00-15:30

Session III: Basic Virology (supported by CUSO)

Chaired 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

O-181 WHAT'S IN THE COWS' BRAIN? –TACKLING THE ETIOLOGY OF BOVINE ENCEPHALITIS BY VIRAL METAGENOMICS

D. WÜTHRICH¹, C.L. BOUJON³, L. TRUCHET³, S. SELIMOVIC-HAMZA², I.G. BOUZALAS³, R. BRUGGMANN¹, T. SEUBERLICH³

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

O-179 VIRAL BUDDING REGULATED BY A CRITICAL RESIDUE LOCATED AT THE PUTATIVE DIMERIC INTERFACE OF THE CANINE DISTEMPER VIRUS MATRIX PROTEIN

F. BRINGOLF¹, M. HERREN¹, M. WYSS¹, A. ZURBRIGGEN¹, P. PLATTET¹

¹Division of Neurological Sciences, Department of Clinical Research and Veterinary Public Health (DCRVPH), Vetsuisse Faculty, University of Bern, Bern, Switzerland

15:00-15:15

O-186 HAX-1 INHIBITS VIRAL REPLICATION OF AVIAN INFLUENZA A VIRUSES AND IS COUNTERACTED BY PB1-F2

B. MAZEL-SANCHEZ¹, I. CARVALHO¹, M. SCHMOLKE¹

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

15:15-15:30

O-175 RESTRICTED SIRNA SCREEN REVEALS DIFFERENTIAL EFFECTS OF CELLULAR PROTEINS ON GENE EXPRESSION FROM SINGLE-STRANDED AND DOUBLE-STRANDED AAV2 VECTORS

FRANCESCA D. FRANZOSO¹, ARTUR YAKIMOVICH², KURT TOBLER¹, ADRIAN MAN¹, REBECCA VOGEL¹, URS GREBER², MATHIAS ACKERMANN¹, CORNEL FRAEFEL¹

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

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

15:30-16:00

Coffee Break

16:00-18:00

Session IV: Basic Virology*

Chaired 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 ZIEBUHR⁷, U KALINKE², V THIEL⁸

¹Federal Department of Home Affairs, Institute of Virology and Immunology, Bern and Mittelhäusern, Switzerland, ²Institute for Experimental Infection Research, Twincore, Hannover, Germany, ³Institute of Immunobiology, Cantonal Hospital, St.Gallen, Switzerland, ⁴Department of Microbiology, Perelman School of Medicine, University of Pennsylvania, Philadelphia, USA, ⁵Department of Neurosciences, Lerner Research Institute, Cleveland Ohio, USA, ⁶Institute of Novel and Emerging Infectious Diseases, Friedrich-Loeffler-Institut, Greifswald-Insel Riems, Germany, ⁷Institute for Medical Virology, University of Giessen, Giessen, Germany, ⁸Department 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 VKOVSKI¹, V GASCHEN², M STOFFEL², V THIEL³

¹Federal Institute of Virology and Immunology, Mittelhäusern and Bern, Switzerland; Graduate School for Cellular and Biomedical Sciences, University of Bern, Switzerland, ²Vetsuisse Faculty, Division Veterinary Anatomy, University of Bern, Bern, Switzerland., ³Federal 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. AYDILLLO³, A. GARCÍA-SASTRE³, M. SCHWEMMLE²

¹Institute of Virology and Immunology (IVI), Mittelhäusern, Switzerland, ²Institute of Virology, Medical Center, University of Freiburg, Freiburg, Germany, ³Icahn 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

¹Institute 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. REUTHER¹, K. GÖPFERT², A. DUDEK², D. DORNFELD², M. SCHWEMMLE²
¹Department of Biomedicine, Experimental Virology, University of Basel, 4009 Basel, Switzerland, ²Department of Virology, University of Freiburg, 79104 Freiburg, Germany
- 17:45-18:00 O-153 LAUSANNEVIRUS AND ESTRELLA LAUSANNENSIS EVOLUTIONARY DYNAMICS
L. MUELLER¹, T. PILLONEL¹, C. BERTELLI², N. SALAMIN³, G. GREUB¹
¹Institute of Microbiology, Lausanne University Hospital and University of Lausanne, Lausanne, Switzerland, ²SIB Swiss Institute of Bioinformatics, Lausanne, Switzerland, ³Department 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
T WUNDERLIN¹, B FERRAR², 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
M. MAYR^{1,2}, M. ZIMMERMANN^{1,2}, A. BRAND^{1,2}, H. BÜRGMANN¹
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
K ZURFLUH¹, L POIREL¹, P NORDMANN², M NÜESCH-INDERBINEN¹, H HÄCHLER¹, R 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
F. PALMIERI¹, S. FILIPPIDOU¹, P. JUNIER¹
¹Laboratory of Microbiology, University of Neuchâtel, Neuchâtel, Switzerland

- 11:45-12:00 O-85 FLUORESCENT PSEUDOMONAS BACTERIA AS TOOLS FOR MONITORING AND IMPROVING THE HEALTH OF AGRICULTURAL SOILS IN SWITZERLAND
*N IMPERIALI*¹, *F DENNERT*², *F MASCHER*³, *M FESSELET*³, *T TURLINGS*⁴,
*R CAMPOS HERRERA*⁴, *M MAURHOFER*², *C KEEL*¹
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
- 12:00-12:15 O-81 FOLDING OF COMPLEX REDOX PROTEINS BY DEDICATED MOLECULAR
CHAPERONES
*C GROB*¹, *Z JULIER*¹, *J MAILLARD*¹
¹Laboratory for Environmental Biotechnology, ENAC-IIE-LBE, Ecole
Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
- 12:15-12:30 O-88 IMMEDIATE GENOME-WIDE TRANSCRIPTIONAL RESPONSE OF
PSEUDOMONAS VERONII STRAIN 1YDBTEX2 TO TOLUENE IN SOIL
*M MORALES*¹, *V SENTCHILO*¹, *J VAN DER MEER*¹
¹Department of Fundamental Microbiology. University of Lausanne. Biophore.
UNIL-Sorge. Lausanne. 2015.
- 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. SENTCHILLO¹, L. CHALUPOVA¹, J. VAN DER MEER¹

¹Department 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. BUTTET¹, C. HOLLIGER¹, J. MAILLARD¹

¹Laboratory for Environmental Biotechnology, ENAC-IIE-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. YASHIRO¹, E. PINTO², A. BURI³, H. NICULITA-HIRZEL⁴, A. ANTOINE GUISAN², J. R. VAN DER MEER¹

¹University of Lausanne, Department of Fundamental Microbiology, 1015 Lausanne, ²University of Lausanne, Department of Ecology and Evolution, 1015 Lausanne, ³University of Lausanne, Institute of Earth Surface Dynamics, 1015 Lausanne, ⁴Institut 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. SCHILLING¹, I. E. SCHILLING², T. B. HOFSTETTER¹, T. B. HOFSTETTER², H. - E. KOHLER¹, H.-P. E. KOHLER²

¹Eawag, Swiss Federal Institute of Aquatic Science and Technology, Dübendorf, Switzerland, ²IBP, 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 WOEBKEN, A, WIEN

16:30-16:45

O-84 A MICROFLUIDIC CHIP TO MEASURE BACTERIAL CHEMOTAXIS IN A BIOSENSORY PERSPECTIVE

C. ROGGO¹, J. R. VAN DER MEER¹

¹Department of Fundamental Microbiology, University of Lausanne

- 16:45-17:00 O-97 INFLUENCE OF ENVIRONMENTAL FACTORS ON SOIL MICROBIAL DIVERSITY AT ARABLE- AND GRASSLAND SITES ACROSS SWITZERLAND
F G SCHWEND¹, F WIDMER¹
¹Molecular Ecology, Institute for Sustainability Sciences, Agroscope, 8046 Zürich, Switzerland
- 17:00-17:15 O-80 COOPERATION IN CARBON SOURCE DEGRADATION SHAPES SPATIAL SELF-ORGANIZATION OF SURFACE-ATTACHED MICROBIAL CONSORTIA
R TECON¹, D OR¹
¹Department of Environmental Systems Science, ETH Zürich, 8092 Zürich, Switzerland
- 17:15-17:30 O-90 EVOLUTION OF MICROBIAL COMMUNITIES AND NUTRIENT REMOVAL PERFORMANCES IN AEROBIC GRANULAR SLUDGE SEQUENCING BATCH REACTOR DURING CHANGE OF SUBSTRATE
A ADLER¹, V BERCLAZ¹, M HORISBERGER¹, J MAILLARD¹, C HOLLIGER¹
¹Laboratory for Environmental Biotechnology, ENAC-IIE-LBE, Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland
- 17:30-17:45 O-96 BACTERIAL IRON REDUCTION PROPERTIES FOR HEALING CORRODED IRON ARTEFACTS
WAFA KOOLI¹, PILAR JUNIER¹, EDITH JOSEPH¹
¹Laboratory 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

O-111 DYNAMIC MEASUREMENT OF KINASE ACTIVITY IN LIVE SINGLE CELL

ED DURANDAU¹, MM MA¹, DA AYZOZ¹, SP PELET¹

¹Département de Microbiologie Fondamentale

10:10-10:25

O-127 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

O-108 CHARACTERIZATION OF A NEW VIRULENCE GENE IN CANDIDA ALBICANS, S AMORIM-VAZ¹, V TRAN², S PRADERVAND², M PAGNÉ², AT 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

O-125 HIGH-RESOLUTION COMMUNITY PROFILING OF ARBUSCULAR MYCORRHIZA

K SCHLAEPPI¹, F BENDER¹, M VAN DER HEIJDEN¹

¹Plant-Soil-Interactions, Institute for Sustainability Sciences, Agroscope, Zürich, Switzerland

- 11:45-12:00 O-123 ROOT MICROBIOME DYNAMICS IN RESPONSE TO PHOSPHATE
N BODENHAUSEN¹, M VAN DER HEIJDEN¹, K SCHLAEPPI¹
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 SPANGENBERG², Y VENTURA¹, N JEANNERET¹, K JEANNERET¹, S BINDSCHEDLER¹, R BSHARY⁴, E VERRECCHIA³, P JUNIER¹
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, ⁴Laboratory of Eco-ethology, Institute of Biology, University of Neuchâtel. Rue Emile-Argand 11, 2000, Neuchâtel, Switzerland
- 12:15-12:30 O-107 DIFFERENTIAL SUPPRESSION OF PATHOGENIC AND SAPROPHYTIC FUNGI BY NATURALLY OCCURRING YEASTS
F. M. FREIMOSER¹
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 MARZI¹, G GYUELVESZI¹, S BECATTINI¹, B BECHER², S LEIBUNDGUT-LANDMANN³, F SALLUSTO¹
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 SCHÖNHERR¹, C FRAGOSO-CORTI², O PETRINI³, S LEIBUNDGUT-LANDMANN¹
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

- 15:05-15:20 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
- 15:20-15:30 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
- 15:30-16:00 Coffee Break**
- 16:00-18:00 Session IV: Antifungal development**
Chaired by Dominique Sanglard
- 16:00-16:30 FRIEND OR FOE? HOW YEAST GENETICS HELPS TO IDENTIFY NOVEL ANTIFUNGAL TARGETS
DOMINIC HOEPFNER, CH, NOVARTIS BASEL
- 16:30-16:45 O-119 IDENTIFICATION OF A PLANT NATURAL PRODUCT TARGETING FUNGAL HUMAN PATHOGENS
S DORSAZ¹, Q FAVRE-GODAL², E FERREIRA QUEIROZ², K GINDRO³, H RIEZMAN⁴, 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
- 16:45-17:00 O-120 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
- 17:00-17:15 O-105 SELECTION, SEX AND SWEEPS; RESISTANCE EVOLUTION OF THE DMI TARGET GENE CYP51
PC BRUNNER¹, BA MCDONALD¹
¹ETH Zurich, Universitaetstrasse 2, 8092 Zurich
- 17:15-17:30 O-122 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 HARTMANN⁵, H STRASSER³, F WIDMER¹, J ENKERLI¹
¹Molecular Ecology, Institute for Sustainability Sciences, Agroscope, 8046 Zurich,

Switzerland, ²Research Centre for Agriculture and Forestry Laimburg, 39040 Auer, Italy, ³Institute of Microbiology, Leopold-Franzens University Innsbruck, 6020 Innsbruck, Austria, ⁴Plant Ecological Genetics, Institute of Integrative Biology, ETH Zurich, 8092 Zurich, Switzerland, ⁵Forest Soils and Biogeochemistry Rhizosphere Processes, Swiss Federal Research Institute WSL, 8903 Birmensdorf, Switzerland

17:30-17:45

O-128 DE NOVO ASSEMBLY OF THE PNEUMOCYSTIS JIROVECII SUBTELOMERIC GENE FAMILIES ENCODING VARYING SURFACE ANTIGENS
E SCHMID-SIEGERT ¹, S RICHARD ², M PAGNI¹, PM HAUSER²
¹Vital-IT Group, SIB Swiss Institute of Bioinformatics, Lausanne, Switzerland ,
²Institute 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

June 14, 2016

SSM Annual Meeting 2016

09:00-09:15 **Welcome and Introduction**

09:15-10:15 **Plenary Session A: Microbe-host interaction**

Kongressraum 1

Chaired by Volker Thiel and Gilbert Greub

09:15-09:45

Influenza virus-host interactions

Adolfo Garcia-Sastre, USA, New York

09:45-10:15

The *Drosophila*-*Spiroplasma* interaction as a model to dissect the molecular mechanisms underlying insect endosymbiosis

Bruno Lemaitre, CH, Lausanne

10:15-11:00

Coffee Break

11:00-12:30

Parallel Sessions I – IV

11:00-12:15

Session I: Microbe evolution

Kongressraum 1

Chaired by Dominique Sanglard and Stefan Kunz

11:00-11:30

MOLECULAR MECHANISMS OF VIRUS ESCAPE TO MUTAGENIC AND NON-MUTAGENIC INHIBITORS

ESTEBAN DOMINGO, SPAIN, MADRID

11:30-12:00

EXPERIMENTAL EVOLUTION OF FUNGAL PATHOGENS IN IMMUNE CELLS

SASCHA BRUNKE, GERMANY, JENA

12:00-12:15

O-39 ROLE OF PROPHAGES IN GENOME PLASTICITY, VIRULENCE AND HOST TROPISM: CONDITIONING OF *STAPHYLOCOCCUS AUREUS* CC398 HUMAN-ADAPTED STRAINS

*F LAUMAY*¹, *AR CORVAGLIA*¹, *SM DIENE*¹, *N VAN DER MEE-MARQUET*², *P FRANCOIS*¹

¹Genomic Research Lab, Department of Infectious Diseases Geneva University Hospital Rue Gabrielle-Perret-Gentil 4 CH-1211 GENEVA 14 SWITZERLAND,

²CHRU 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

11:00-12:30

Session II: Microbe entry

Foyer Nord

Chaired by Vincent Perreten and Silke Stertz

11:00-11:30

ENTRY OF CHLAMYDIA

RAY A. CARABEO, UK, LONDON

- 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. STERTZ¹
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. OECHSLIN¹, C. MENZI¹, Y.A. QUE¹, T.R. VELOSO², P. MOREILLON¹, J.M. ENTENZA¹
¹Department of Fundamental Microbiology, UNIL, Lausanne, Switzerland, ²Department of Cardiovascular Sciences, KU Leuven, Leuven, Belgium

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11:00- 12:30

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

O-20 DISORDERED NASAL MICROBIOTA WITHIN THE FIRST YEAR OF LIFE IN INFANTS WITH CYSTIC FIBROSIS

M MIKA¹, I KORTEN², W QI³, N REGAMEY², U FREY⁴, C CASALTA², P LATZIN², M HILTY¹, SCILD STUDY GROUP⁵

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

O-182 HEPATITIS C VIRUS STIMULATES MURINE CD8A-LIKE DENDRITIC CELLS TO PRODUCE TYPE I INTERFERON IN A TRIF-DEPENDENT MANNER

S. PFAENDER¹, E. GRABSKI², C. DETJE², N. RIEBESEHL¹, S. LIENENKLAUS³, E. STEINMANN¹, U. KALINKE², T. PIETSCHMANN¹

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

11:00-12:30

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

O-163 HETEROGENEOUS ANTIGENIC PROPERTIES OF THE PORCINE REPRODUCTIVE AND RESPIRATORY SYNDROME VIRUS (PRRSV) NUCLEOCAPSID AMONG GENOTYPE I STRAINS

J RAPPE¹, N RUGGLI¹

¹Institute of Virology and Immunology IVI, Sensemattstrasse 293, 3147 Mittelhäusern, Switzerland

- 12:15-12:30 O-156 MULTI-RESISTANCE OF ENTEROVIRUS TO UV254 DISINFECTION AND MUTAGENIC NUCLEOTIDE ANALOGS IS LINKED TO MODIFICATIONS IN THE REPLICATION MACHINERY
A CARRATALÀ¹, 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

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- 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 Aurélie 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. PELKMANS¹
¹Institute of Molecular Life Sciences, University of Zurich, Winterthurerstrasse 190,
Zurich 8057, Switzerland
- 17:15-17:30 O-XXX TRANSCRIPTIONAL COORDINATION OF CENTRAL METABOLISM BY
INTROVERTED E. COLI
KARL KOCHANOWSKI, LUCA GEROSA, SIMON BRUNNER, YAROSLAV
NIKOLAEV, DIMITRIS CHRISTODOULOU, UWE SAUER

Session VI: Antibiotics and antibiotic resistance

Foyer Nord

Chaired by Reinhard Zbinden and Vincent Perreten

- 16:00-16:30 AMINOGLYCOSIDES – DRUG DEVELOPMENT
ERIK C. BÖTTGER, CH, ZÜRICH
- 16:30-17:00 ACQUIRED RESISTANCE TO POLYMYXINS IN ENTEROBACTERIACEAE;
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 FURRER⁴, N LOW⁵,
A ENDIMIANI¹
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

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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
N JACQUIER¹, PH VIOLLIER², G GREUB¹
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 FILIPPIDOU¹, T JUNIER², T WUNDERLIN¹, I PALMIERI¹, N JEANNERET¹, P JUNIER¹
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
(Herrengasse 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 AMOEBAL 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

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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 EPIGENETIC 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

PROGRAM

OF THE SULM PART OF THE MEETING

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

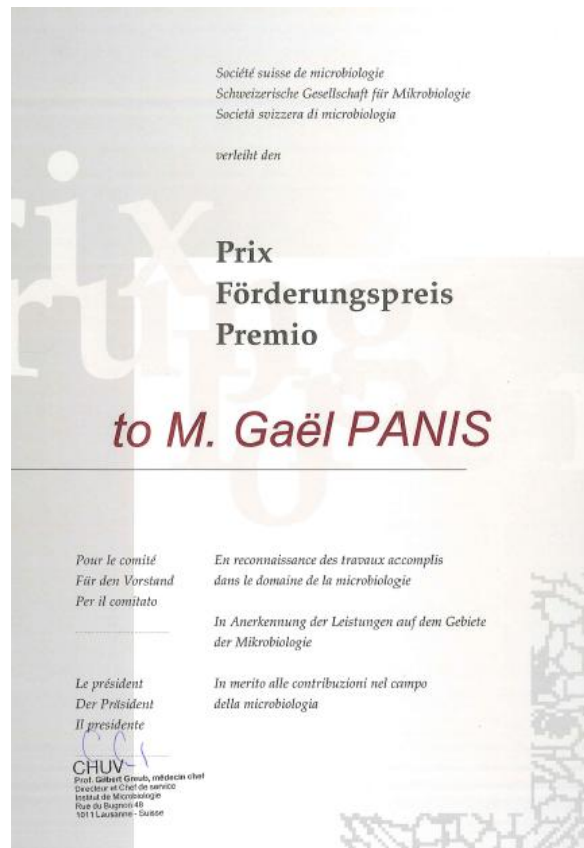
PD Dr. Werner Albrich : Pros and cons of using biomarkers versus clinical decisions in start/stop decisions for antibiotics in the ICU



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SSM Award



Gael Panis will receive the SSM Award during the gala dinner



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