

International intracellular bacteria meeting 2022

**Joint ESCCAR International congress
on Rickettsiae and 9th Meeting of
the European Society for Chlamydia
Research (ESCR)**

August, 23-26, 2022

Auditoire César Roux
University Hospital – CHUV
Lausanne, Switzerland



Organizing Societies

American Rickettsia Society
European Society for Chlamydia Research
European Society on intracellular bacteria (ESCCAR)

Local Scientific and Organizing Committee

Greub Gilbert
Aeby Sébastien
Ardissone Silvia
Jacquier Nicolas
Kebbi-Beghdadi Carole
Pillonel Trestan

Institut de Microbiologie
Université de Lausanne – CHUV



Congress office Management

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PROGRAM

ORGANIZING SOCIETIES

American Society for Rickettsiology (ASR)

President	Kevin Macaluso, Baton Rouge, LA
Vice-President	Joao Pedra, Baltimore, MD
Treasurer	Daniel E. Voth, Little Rock, AR
Councilor-at-large	Alison Fedrow, West Newton, PA
Past President	Kelly Brayton, Pullman, WA

European Society for Chlamydia Research (ESCR)

Chair	Gilbert Greub, Switzerland
Co-Chair	Patrick Horner, United Kingdom
Board Member	Servaas Morré, The Netherlands
Board Member	Angelika Stary, Austria
Board Member	Per-Anders Mårdh, Finland
Board Member	Matthias Maas, Austria
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Board Member	Konrad Sachse, Germany

European Society on Intracellular Bacteria (ESCCAR)

President	Gilbert Greub, Switzerland
Vice-president	Aranzazu Portillo Barrio, Spain
Past-president	Pierre-Edouard Fournier, France
Secretary	Idir Bitam, Algeria
Board member	Chantal Bleeker-Rovers, The Netherlands
Board member	Mirja Puollakainen, Finland
Board member	Beate Henrichfreise, Germany

**Abstract book link**

https://www.meeting-com.ch/fileadmin/user_upload/programme_pdf/Divers_2022/ESCCAR_2022-Abstract_book.pdf

EUROPEAN STUDY GROUPS

ESGMD Executive Committee

Chair	Gilbert Greub, Switzerland
Secretary	Hege Vangstein Aamot, Norway
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Education Officer	Belen Rodriguez-Sanchez, Spain
Science Officer	Cécile Bebear, France

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Treasurer	Barbara Van der Pol, United States
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Science Officer	Jorgen Skov Jensen, Denmark

AWARDS COMMITTEE

Best Poster Award	Pierre-Edouard Fournier, France Carole Kebbi-Beghdadi, Switzerland Beate Henrichfreise, Germany
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Best Oral Award <i>Chlamydia</i>	Nicolas Jacquier, Switzerland Servaas Morré, The Netherlands Mirja Puollakainen, Finland
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Best Oral Award <i>Rickettsia</i>	José A. Oteo, Spain Daniel Paris, Switzerland Aranzazu Portillo Barrio, Spain
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Best Oral Award <i>Others</i>	Chantal Bleeker-Rovers, The Netherlands Max Maurin, France Ran Nir-Paz, Israël
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Welcome

Dear Colleagues,

We are pleased to inform you that today, here in Lausanne the situation is safe regarding SARS-CoV-2 and there are no specific rules that apply to enter in Switzerland regarding the coronavirus. Also, there are no rules at all to go for lunch or to the theater ; we are nearly back to normal in Switzerland.

Therefore, we are more than happy to welcome you to Lausanne for the international intracellular bacteria meeting on August 23-26, 2022, at the University Hospital (CHUV).

This meeting is a joint meeting between the ESCCAR meeting (European Society on Chlamydia, Coxiella, Anaplasma and Rickettsia), that was held in Marseille in 2018 and the meeting of the European Society for Chlamydia Research, that took place in 2016 in Oxford.

The meeting is co-organized by the ESCCAR board, the European chlamydia board and the American rickettsial society. It is also supported by the ESGMD (genomics and molecular diagnostics) and ESMAC (mycoplasma and chlamydia) groups of ESCMID (European Society of Clinical Microbiology and Infectious Diseases).

As usual, we will have dedicated sessions and talks on various aspects including epidemiology, genomics, cell biology, molecular biology, diagnostics & infection management of a variety of bacterial agents, including Anaplasma, Bartonella, Chlamydia, Coxiella, Ehrlichia, Rickettsia, Waddlia and Wolbachia. We will also have a rich social program with a gala dinner at the Swiss Olympic Museum (including the visit of the museum), the possibility to discover Lausanne by running early morning and by trying the card games Krobs & MyKrobs two new games on microbes, on 23th evening.

Looking forward to welcoming you in Lausanne.

Best regards,



Professeur Gilbert GREUB, MD-PhD
Institute of Microbiology, UNIL-CHUV, Lausanne

Program

Tuesday, August 23rd

08.00	Registration	FOYER
08.50-10.30	SESSION 1 KEYNOTES	CÉSAR ROUX
	Chairs : Aranzazu Portillo, La Rioja (ES) ; Gilbert Greub, Lausanne (CH)	
08.50	Welcome word	
09.00-09.45	<i>Chlamydia trachomatis</i> effector Dre1 interacts with dynactin to reposition host organelles during infection	
K-01	Joanne Engel, San Francisco (US)	
09.45-10.30	Genomics of <i>Rickettsia</i> species unveils an unsuspected level of genetic exchange	
K-02	Pierre-Edouard Fournier, Marseille (FR)	
10.30-11.00	Coffee break	FOYER
11.00-12.30	SESSION 2 A HOST-CELL INTERACTIONS	CÉSAR ROUX
	Chairs : Christine Suetterlin, Irvine (US) ; Anders Omsland, Pullman (US)	
11.00-11.30	Fine-tuning host cholesterol in the bacterial intracellular niche	
M-01	Stacey D. Gilk, Indianapolis (US)	
11.30-12.00	<i>Anaplasma</i>: cell corruption by an intracellular bacteria	
M-02	J. Stephen Dumler, Baltimore (US)	
12.00-12.15	Alternative splicing variant of mixed lineage leukemia 5 (vMML5), a novel cellular receptor for <i>Orientia tsutsugamushi</i>	
S-01*	Nam-Hyuk Cho, Seoul (KR)	
12.15-12.30	Characterization of a novel <i>Anaplasma phagocytophilum</i> effector involved in tick infection	
S-02	Kelly Brayton, Pullman (US)	

* Student paper

Tuesday, August 23rd

11.00-12.30	SESSION 2 B	AUGUSTE TISSOT
	MYCOPLASMA	
	Chairs : Chantal Bleeker-Rovers, Nijmegen (NL); Vicki Chalker, London (GB)	
11.00-11.30 M-03	<i>Mycoplasma pneumoniae</i> – clinical epidemiology	
	Ran Nir-Paz, Jerusalem (IL)	
11.30-12.00	<i>Mycoplasma pneumoniae</i> infections: genotypes, outcome, and COVID-19	
M-04	Patrick Meyer Sauteur, Zurich (CH)	
12.00-12.30	Recent developments in <i>Mycoplasma</i>	
M-05	Vicki Chalker, London (GB)	

12.30-14.00 Lunch **FOYER**

12.30-13.30 Closed ESCCAR Committee Meeting **SEMINAR ROOM 3**

14.00-15.30	SESSION 3 A	CÉSAR ROUX
	DIAGNOSIS	
	Chairs : Mirja Puolakkainen, Helsinki (FI); Onya Opota, Lausanne (CH)	
14.00-14.30 M-06	Diagnosis of intracellular bacteria by PCR	
	Hege Vangstein Aamot, Lorenskog (NO)	
14.30-15.00	What's new in chronic Q fever and Q fever fatigue syndrome?	
M-07	Chantal Bleeker-Rovers, Nijmegen (NL)	
15.00-15.15	Nanomotion-based antimicrobial susceptibility test: an innovative method to study intracellular bacteria such as <i>Chlamydia trachomatis</i> and <i>Waddlia chondrophila</i>	
S-03*	Christèle Aubry, Lausanne (CH)	
15.15-15.30	Fluorescence in situ hybridization for detecting <i>Coxiella burnetii</i> in tissue samples from chronic Q fever patients	
S-04	Jesper Weehuizen, Utrecht (NL)	

* Student paper

Tuesday, August 23rd

14.00-15.30	SESSION 3 B	AUGUSTE TISSOT
	CHLAMYDIA HOST CELL INTERACTIONS	
	Chairs : Jeanne Salje, Newark (US); Antony Croxatto, La Chaux-de-Fonds (CH)	
14.00-14.30	Effects of <i>Chlamydia trachomatis</i> infection on the centrosome and primary cilia	
M-08	Christine Suetterlin, Irvine (US)	
14.30-15.00	The type three secretion system of <i>Waddlia chondrophila</i>	
M-09	Carole Kebbi-Beghdadi, Lausanne (CH)	
15.00-15.15	The role of 24 SNPs in host genes and the development of long-term <i>Chlamydia trachomatis</i> complications in women	
S-05	Bernice Hoenderboom, Bilthoven (NL)	
15.15-15.30	An unexpected wealth of ubiquitin-directed effectors encoded by <i>Chlamydiales</i>	
S-06	Kay Hofmann, Köln (DE)	

15.30-16.00 Coffee break **FOYER**

Tuesday, August 23rd

16.00-17.30	SESSION 4 A MOLECULAR PATHOGENESIS	CÉSAR ROUX
	Chairs : Joanne Engel, San Francisco (US) ; Jaime Mota, Caparica (PT)	
16.00-16.30	A molecular characterization of <i>Chlamydia</i> effectors proteins uncovers new facets of <i>Chlamydia</i> pathogenesis	
M-10	Raphaël Valdivia, Durham (US)	
16.30-17.00	The <i>Bartonella</i> autotransporter CFA is a protective antigen and hypervariable target of neutralizing antibodies blocking erythrocyte infection	
M-11	Christoph Dehio, Basel (CH)	
17.00-17.15	Differential response to environmental stress reveals a transcriptional regulatory pathway, active in <i>Chlamydia trachomatis</i> but not <i>C. muridarum</i>, linking virulence gene expression with persistence	
S-07	Catherine O'Connell, Chapel Hill (US)	
17.15-17.30	<i>Coxiella burnetii</i> macrophage infectivity potentiator protein: Evaluation of a novel target for therapeutic intervention	
S-08	Aleksandra Debowski, Perth (AU)	

Tuesday, August 23rd

16.00-17.30	SESSION 4 B STRICT INTRACELLULAR BACTERIA	AUGUSTE TISSOT
	Chairs : Ran Nir-Paz, Jerusalem (IL) ; Alix Coste, Lausanne CH)	
16.00-16.30	Molecular pathogenesis of <i>Ehrlichia ruminantium</i> Infection	
M-12	Damien F. Meyer, Petit-Bourg, Guadeloupe (FR)	
16.30-17.00	<i>The value of culture collections for microbiocidal taxonomy, establishing repositories for obligate intracellular bacteria</i>	
M-13	Sarah Alexander, London (GB)	
17.00-17.15	Interpretation of the results of Q fever ELISA tests in domestic ruminants: a user-friendly Shiny application based on latent class models in a Bayesian framework	
S-09	Thibaut Lurier, Saint-Genès-Champanelle (FR)	
17.15-17.30	EVOO-based formulations against <i>Chlamydiae</i>: a promising approach	
S-10	Simone Filardo, Roma (IT)	

17.45-19.15 Visit of Diagnostic Laboratories LABORATORIES

Wednesday, August 24th

07.00-08.00 *Running from Croisettes (Epalinges, 6-7 km)*

08.00 Registration

FOYER

09.00-10.30	SESSION 5 A CELL WALL AND ADHESINS	CÉSAR ROUX
	Chairs : Toni Darville, Chapel Hill (US) ; Nicolas Jacquier, Lausanne (CH)	
09.00-09.30 M-14	The chlamydial peptidoglycan remodeling machinery Beate Henrichfreise, Bonn (DE)	
09.30-10.00 M-15	Plasma membrane under attack: how Chlamydiae enter host cells Katja Mölleken, Düsseldorf (DE)	
10.00-10.15 S-11	Molecular and functional analysis of <i>Bartonella henselae</i> host cell adhesion Arno Thibau, Frankfurt am Main (DE)	
10.15-10.30 S-12*	The <i>Orientia tsutsugamushi</i> ScaB autotransporter protein is required for adhesion and invasion of mammalian cells Chaewon Kim, Seoul (KR)	

* Student paper

Wednesday, August 24th

09.00-10.30	SESSION 5 B FROM THE BENCH TO BEDSIDE	AUGUSTE TISSOT
	Chairs : Hege Vangstein Aamot, Lorenskog (NO) ; Paul Newton, Vientiane (LA)	
09.00-09.30 M-16	Scrub typhus, update and overview Daniel Paris, Basel (CH)	
09.30-10.00 M-17	Typhus and spotted fever: clinical overview Amel Letaïef, Sousse (TN)	
10.00-10.15 S-13*	In vitro anti-chlamydial effects of the histamine h1 receptor antagonist azelastine hydrochloride Jasmin Kuratli, Zurich (CH)	
10.15-10.30 S-14	Purified compounds isolated from a South American tree, <i>Lithraea molleoides</i> (Vell.) Engl., inhibit <i>Chlamydia trachomatis</i> infection in vitro Andrea Carolina Entrocassi, Buenos Aires (AR)	
10.30-11.00	Coffee break	FOYER
11.00-12.30	SESSION 6 A BACTERIAL DIVISION AND PEPTIDOGLYCAN	CÉSAR ROUX
	Chairs : Beate Henrichfreise, Bonn (DE) ; Raphaël Valdivia, Durham (US)	
11.00-11.30 M-18	The role of peptidoglycan in division, differentiation, and 'persistence' in <i>Chlamydia trachomatis</i> Georges Liechti, Bethesda (US)	
11.30-12.00 M-19	Investigation of chlamydial division mechanisms using <i>Chlamydia</i>-related bacteria as a model Nicolas Jacquier, Lausanne (CH)	
12.00-12.15 S-15*	Anaplasma phagocytophilum exploitation of host-cell multivesicular body pathways facilitates bacterial replication and dissemination Curtis B. Read, Richmond (US)	
12.15-12.30 S-16*	New insights into chlamydial cell division amidase function, architecture and inhibition Julia Dannenberg, Bonn (DE)	

* Student paper

Wednesday, August 24th

11.00-12.30	SESSION 6 B EPIDEMIOLOGY I	AUGUSTE TISSOT
	Chairs : Mirja Puolakkainen, Helsinki (FI) ; Antonios Kritikos, Lausanne (CH)	
11.00-11.30	The epidemiology and treatment of scrub typhus and murine typhus	
M-20	Paul Newton, Vientiane (LA)	
11.30-11.45	Variability of <i>Chlamydia trachomatis</i> genotypes from the argentinean lymphogranuloma venereum outbreak detected in Buenos Aires in 2017-2019	
S-17	Karina Andrea Büttner, Buenos Aires (AR)	
11.45-12.00	Genotyping of <i>Orientia tsutsugamushi</i> using complete TSA56 gene: A report from South India	
S-18	John Antony Jude Prakash, Vellore (IN)	
12.00-12.15	Borreliosis in Algeria: Update and comprehensive overview	
S-19	Ismail Lafri, Marseille (FR)	
12.15-12.30	<i>Chlamydia gallinacea</i> as emerging pathogen in poultry	
S-20	Monika Szymańska-Czerwińska, Pulawy (PL)	
12.30-14.00	Lunch and Posters session (even numbers)	FOYER
12.30-13.00	Committee of European Chlamydia Society	SEMINAR ROOM 3

Wednesday, August 24th

14.00-15.30	SESSION 7 A PLASMIDS OF INTRACELLULAR BACTERIA	CÉSAR ROUX
	Chairs : Carole Kebbi-Beghdadi, Lausanne (CH) ; Pierre-Edouard Fournier, Marseille (FR)	
14.00-14.30	<i>Chlamydia</i> plasmids	
M-21	Ian Clarke, Southampton (GB)	
14.30-15.00	Toxin-antitoxin modules in <i>Waddlia chondrophila</i> and <i>Chlamydia</i>-related bacteria	
M-22	Silvia Ardissonne, Lausanne (CH)	
15.00-15.15	Development of mutagenesis in diverse species in the genus <i>Chlamydia</i>	
S-21	Katerina Wolf, Lexington (US)	
15.15-15.30	Cross-feeding interactions shaped <i>Rickettsiales</i> genomic architectures along the parasite/free-living spectrum	
S-22*	Lucas Serra, Zurich (CH)	
14.00-15.30	SESSION 7 B VETERINARY MICROBIOLOGY	AUGUSTE TISSOT
	Chairs : Nicole Borel, Zurich (CH) ; Sonia Santibáñez, La Rioja (ES)	
14.00-14.30	Development of a new subcellular vaccine to protect sheep from ovine enzootic abortion	
M-23	David Longbottom, Midlothian (GB)	
14.30-15.00	Emerging <i>Chlamydia</i> infections in animals and their zoonotic potential	
M-24	Daisy Vanrompay, Gent (BE)	
15.00-15.15	Rectal shedding of <i>Chlamydia suis</i> in a pig farm without classical clinical signs of Chlamydiosis	
S-23	Christine Unterweger, Vienna (AT)	
15.15-15.30	<i>Chlamydia</i> serology in chickens using a bead-based peptide suspension array	
S-24	Marloes Heijne, Lelystad (NL)	

* Student paper

Wednesday, August 24th

15.30-16.00	Coffee break	FOYER
16.00-17.30	SESSION 8 A LAY COMMUNICATION	CÉSAR ROUX
	Chairs : Marie Hallin, Brussels (BE); Gilbert Greub, Lausanne (CH)	
16.00-16.20 M-25	KrobsPro: a collaborative teaching project Marie Hallin, Brussels (BE)	
16.20-16.40 M-26	The Dark and Bright side of the force: teaching the importance of microbes from school to University Pilar Junier, Neuchâtel (CH)	
16.40-17.00 M-27	KROBS and MyKROBS: two playful card games dedicated to lay communication about pathogenic microorganisms Gilbert Greub, Lausanne (CH)	
17.00-17.15 S-25	Lay communication on the risk of tick-borne diseases: a comparative study of the Swiss media landscape from 2000 to 2020 Carole Kebbi-Beghdadi, Lausanne (CH)	
17.15-17.30 S-26	From Koch to Prowazek: famous microbiologists in the field of intracellular bacteria Tristan Born, Milad Duloo and the KrobsPro team (Bruxelles & Lausanne)	

Wednesday, August 24th

16.00-17.30	SESSION 8 B HOST-PATHOGEN INTERACTION	AUGUSTE TISSOT
	Chairs : Stacey D. Gilk, Omaha (US); Ken Fields, Lexington (US)	
16.00-16.30 M-28	Metabolic Plasticity and Host Cell Tropism in <i>Coxiella burnetii</i> Anders Omsland, Pullman (US)	
16.30-17.00 M-29	Host genetics: impact on <i>Chlamydia</i> infection Servaas Morré, Maastricht (NL)	
17.00-17.15 S-27	Regulator of actin-based Motility (RoAM) downregulates actin tail formation by <i>Rickettsia rickettsii</i> and is negatively selected in mammalian cell culture Adam Nock, Hamilton (US)	
17.15-17.30 S-28	<i>Orientia tsutsugamushi</i> selectively stimulates the C-type lectin receptor Mincle and type 1-skewed proinflammatory immune responses Lynn Soong, Galveston (US)	



17.45-19.15 KROBS and MyKROBS EVENING SEMINAR ROOMS 3-4

Thursday, August 25th

07.00-08.00 *Running from Ouchy (lakeshore, 6-7 km)*

08.00 Registration

FOYER

09.00-10.30	SESSION 9 A CELL BIOLOGY	CÉSAR ROUX
	Chairs : Helena Seth-Smith, Basel (CH); Christoph Dehio, Basel (CH)	
09.00-09.30	Selective fragmentation of the <i>trans</i>-golgi apparatus by <i>Rickettsia rickettsii</i>	
M-30	Ted Hackstadt, Hamilton (US)	
09.30-10.00	Manipulation of host immune defense signaling, the key for intracytosolic colonization by pathogenic <i>Rickettsia</i> species	
M-31	Oliver H. Voss, Baltimore (US)	
10.00-10.15	New insights on the biogenesis of <i>Coxiella</i>-containing vacuoles revealed by phospholipid profiling	
S-29	Matteo Bonazzi, Montpellier (FR)	
15.30-15.45	The retropepsin-type protease APRc as a novel moonlighting immune evasion factor of <i>Rickettsia</i>	
S-30	Isaura Simões, Coimbra (PT)	

Thursday, August 25th

09.00-10.30	SESSION 9 B VACCINES	AUGUSTE TISSOT
	Chairs : Daisy Vanrompay, Gent (BE); Milos Stojanov, Lausanne (CH)	
09.00-09.30 M-32	<i>Chlamydia</i> Vaccine Initiative What, Who, How?	
	Toni Darville, Chapel Hill (US)	
09.30-09.45	Effect of adjuvant on cellular and humoral immune responses to an experimental subcellular vaccine antigen in sheep	
S-31	Sean Wattegedera, Penicuik (GB)	
09.45-10.00	Modified <i>Coxiella burnetii</i> polysaccharide vaccine protects guinea pigs from coxiellosis	
S-32	Stephen Graves, Geelong (AU)	
10.00-10.15	Q fever post-vaccination hypersensitivity modeling reveals sex dimorphism and a less reactogenic vaccine candidate	
S-33	Carrie Long, Hamilton (US)	
10.15-10.30	Inclusion of Quillaria adjuvant in the Coxevac formulation skews <i>Coxiella burnetii</i>- induced inflammatory responses towards a sustained Th1-CD8+-mediated activation and increases protection in a goat vaccine-challenge experimental model	
S-34	Marcella Mori, Brussels (BE)	

10.30-11.00 **Coffee break**

FOYER

Thursday, August 25th

11.00-12.30	SESSION 10 A	CÉSAR ROUX
	CHLAMYDIA TRANSFORMATION	
	Chairs : Silvia Ardissonne, Lausanne ; Ken Fields, Lexington (US)	
11.00-11.30	Transforming <i>Chlamydia</i> using the Group II intron approach: strengths, weaknesses, and applications	
M-33	Derek J. Fisher, Carbondale (US)	
11.30-12.00	Inducible knockdowns in <i>Chlamydia</i> using CRISPR interference	
M-34	Scot Ouellette, Omaha (US)	
12.00-12.15	Transposon mutagenesis of <i>Chlamydia trachomatis</i>	
S-35	Colette O'Neill, Southampton (GB)	
12.15-12.30	Possibilities and limitations of competence induction in <i>Chlamydia suis</i>	
S-36	Hanna Marti, Zurich (CH)	

11.00-12.30	SESSION 10 B	AUGUSTE TISSOT
	METAGENOMICS AND INTRACELLULAR BACTERIA	
	Chairs : Pascale Vonaesch, Lausanne (CH) ; Max Maurin, Grenoble (FR)	
11.00-11.30	The microbiome of ticks: an overview	
M-35	Aranzazu Portillo, La Rioja (ES)	
11.30-12.00	Metagenomics & chlamydiae	
M-36	Claire Bertelli, Lausanne (CH)	
12.00-12.15	Identification of <i>Anaplasma</i> species in wildlife hosts in the Kruger National Park and surrounding game reserves using a bacterial microbiome approach	
S-37*	Sekgota Marcus Makgabo, Pretoria (ZA)	
12.15-12.30	The bacterial microbiome of <i>Rhipicephalus sanguineus</i> ticks in the mnisi community, South Africa	
S-38	Rebecca Ackermann, Pretoria (ZA)	

* Student paper

Thursday, August 25th

12.30-14.00	Lunch	FOYER
12.30-13.15	Closed International Chlamydiae Taxonomy Subcommittee	SEMINAR ROOM 3
14.00-15.30	SESSION 11 A	CÉSAR ROUX
	CELL & MOLECULAR BIOLOGY OF OTHER INTRACELLULAR BACTERIA	
	Chairs : Elizabeth Rucks, Omaha (US) ; Damien Jacot, Lausanne (CH)	
14.00-14.30	Intracellular trafficking of <i>Orientia tsutsugamushi</i>	
M-37	Jeanne Salje, Newark (US)	
14.30-15.00	Formation of a pathogen vacuole according to <i>Legionella pneumophila</i>	
M-38	Hubert Hilbi, Zurich (CH)	
15.00-15.15	Targeted mutagenesis broadly applicable for <i>Ehrlichia</i> and <i>Anaplasma</i> species in diverse research applications, including in creating gene deletions, fusion proteins, and in studies involving mRNA and protein synthesis knockdown	
S-39	Roman Ganta, Manhattan (US)	
15.15-15.30	The <i>Chlamydia trachomatis</i> IncM protein interferes with host cell centrosome positioning and modulates inclusion structure	
S-40*	Maria Pequito, Lisbon (PT)	

* Student paper

Thursday, August 25th

14.00-15.30	SESSION 11 B GENOMICS	AUGUSTE TISSOT
	Chairs : Linda Mueller, Lausanne (CH) ; Ted Hackstadt, Hamilton (US)	
14.00-14.30 M-39	Discoveries from <i>Chlamydia trachomatis</i> genomics	
	Deborah Dean, Oakland (US)	
14.30-15.00	Role of <i>Chlamydia</i>-related bacteria (CRB) in human diseases	
M-40	Mirja Puolakkainen, Helsinki (FI)	
15.00-15.15 S-41*	zDB: bacterial comparative genomics made easy	
	Bastian Marquis, Lausanne (CH)	
15.15-15.30	Exploring the genomic diversity of circulating <i>Chlamydia trachomatis</i> lymphogranuloma venereum strains: 2011-2017	
S-42	Helena Seth-Smith, Basel (CH)	

15.30-16.00 Coffee break **FOYER**

* Student paper

Thursday, August 25th

16.00-17.30	SESSION 12 SECRETION SYSTEMS	CÉSAR ROUX
	Chairs : Silvia Ardissonne, Lausanne (CH) ; Richard Hayward, Cambridge (GB)	
16.00-16.30	New insights into how <i>Chlamydia</i> effectors modulate host cell functions	
M-41	Cherilyn Elwell, San Francisco (US)	
16.30-17.00	The role of type III secreted proteins during the <i>Chlamydia trachomatis</i> infectious cycle	
M-42	Jaime Mota, Caparica (PT)	
17.00-17.15	<i>Chlamydia trachomatis</i> secretes effectors which localize to the mitochondria and induces changes in mitochondrial function	
S-43	Zoe Dimond, Hamilton (US)	
17.15-17.30	<i>Orientia tsutsugamushi</i> effector Ank5 modulates the MHC-I pathway by targeting the transcriptional activator, NLRC5, for proteasomal degradation	
S-44	Haley E. Adcox, Virginia (US)	

18.00 Visit of the Olympic Museum **OLYMPIC MUSEUM**
19.00 Aperitif **QUAI D'OUCHY 1**
20.00 Gala dinner **1006 LAUSANNE**

Friday, August 26th

07.00-08.00 *Running from La Sallaz to Sauvabelin (6-7 km)*

08.00 Registration

FOYER

09.00-10.30	SESSION 13 A MOLECULAR MICROBIOLOGY AND BACTERIAL GENETICS	CÉSAR ROUX
	Chairs : Deborah Dean, Oakland (US) ; Servaas Morré, Maastricht (NL)	
09.00-09.30 M-43	Genetic dissection of chlamydial infection biology Ken Fields, Lexington (US)	
09.30-10.00 M-44	Regulation of <i>Chlamydia</i> gene expression by small RNAs Ming Tan, Irvine (US)	
10.00-10.15 S-45*	Novel types of M1- and K6-specific deubiquitinases in the <i>Chlamydia</i>-like bacterium <i>Simkania negevensis</i> Vanessa Boll, Köln (DE)	
10.15-10.30 S-46	Mechanism of cyclic-B-glucan export by ABC transporter Cgt of <i>Brucella</i> Jaroslaw Sedzicki, Basel (CH)	

* Student paper

Friday, August 26th

09.00-10.30	SESSION 13 B NEW PATHOGENS	AUGUSTE TISSOT
	Chairs : Amel Letaïef, Sousse (TN) ; David Longbottom, Midlothian (GB)	
09.00-09.30 M-45	ChlamDB: A comparative genomics database of the Planctomycetes-Verrucomicrobia-Chlamydiae superphylum Trestan Pillonel, Lausanne (CH)	
09.30-10.00 M-46	The role of <i>Candidatus Rickettsia</i> as human pathogens Sonia Santibáñez, La Rioja (ES)	
10.00-10.15 S-47	The relationship of <i>Neoehrlichia mikurensis</i> with B-cell lymphomas Christine Wennerås, Göteborg (SE)	
10.15-10.30 S-48	Chlamydiaceae-like bacterium in wild Magellanic penguins (<i>Spheniscus magellanicus</i>) Maria Lucia Gallo Vaulet, Buenos Aires (AR)	
10.30-11.00	Coffee break	FOYER

Friday, August 26th

11.00-12.30	SESSION 14 A CHLAMYDIA-RELATED BACTERIA	CÉSAR ROUX
	Chairs : Barbara Sixt, Umea (SE) ; Ian Clarke, Southampton (GB)	
11.00-11.30 M-47	Chlamydia-related bacteria Gilbert Greub, Lausanne (CH)	
11.30-11.45 S-49	Evasion of the antimicrobial activities of cathelicidin host defence peptides by <i>Waddlia chondrophila</i> Nick Wheelhouse, Edinburgh (GB)	
11.45-12.00 S-50	The release of <i>Simkania negevensis</i> from infected cells depends on the modulation of host cell death and lysis Vera Kozjak-Pavlovic, Würzburg (DE)	
12.00-12.15 S-51*	Role of sphingolipids in <i>Simkania negevensis</i> Infection Jonas D. Weinrich, Würzburg (DE)	
12.15-12.30 S-52*	The occurrence of <i>Chlamydia</i>-related bacteria in garden birds and broiler chickens in Finland Sanna Aarnio, Helsinki (FI)	

* Student paper

Friday, August 26th

11.00-12.30	SESSION 14 B EPIDEMIOLOGY II	AUGUSTE TISSOT
	Chairs : Patrick Meyer Sauter, Zurich (CH) ; Chantal Bleeker-Rovers, Nijmegen (NL)	
11.00-11.30 M-48	Entomology: a key tool for epidemiology of intracellular bacteria Idir Bitam, Alger (DZ)	
11.30-11.45 S-53*	The North African hedgehog, a wild reservoir for ticks and fleas-borne pathogens Ghofrane Balti, Tunis (TN)	
11.45-12.00 S-54	Seroprevalence of Q fever among blood donors and screening for <i>Coxiella burnetii</i> DNA in environmental dust in a French conurbation recently confronted to clustered human cases Elsa Jourdain, Saint-Genès-Champanelle (FR)	
12.00-12.15 S-55	Prevalence and genetic characterisation of <i>Coxiella burnetii</i> in cattle in Poland Monika Szymańska-Czerwińska, Pulawy (PL)	
12.15-12.30 S-56	Results of 12 years of the Dutch <i>Chlamydia trachomatis</i> Reference Laboratory in The Netherlands: identification of <i>C. trachomatis</i> plasmid free clinical isolates and other chlamydia variants Servaas Morré, Amsterdam (NL)	

12.30-14.00 **Lunch and Poster session** (odd numbers) **FOYER**

* Student paper

Friday, August 26th

14.00-15.30	SESSION 15 A	CÉSAR ROUX
	PATHOGENESIS OF INTRACELLULAR BACTERIA	
	Chairs : Giorgia Caruana, Lausanne (CH) ; Olivier Péter Sion (CH)	
14.00-14.30	Functional analysis of <i>Bartonella</i> pathogenicity factors might contribute to novel therapeutic concepts	
M-49	Volkhard Kempf, Frankfurt am Main (DE)	
14.30-15.00	Tularemia as a waterborne disease	
M-50	Max Maurin, Grenoble (FR)	
15.00-15.15	Polarized lung inflammation and Tie2/angiopoietin-mediated endothelial dysfunction during severe <i>Orientia tsutsugamushi</i> infection	
S-57	Lynn Soong, Texas (US)	
15.15-15.30	Decoding the molecular basis of premature host cell death induced by a <i>Chlamydia trachomatis</i> mutant deficient for the secreted effector cpoS	
S-58	Mohammed Rizwan Babu Sait, Umea (SE)	

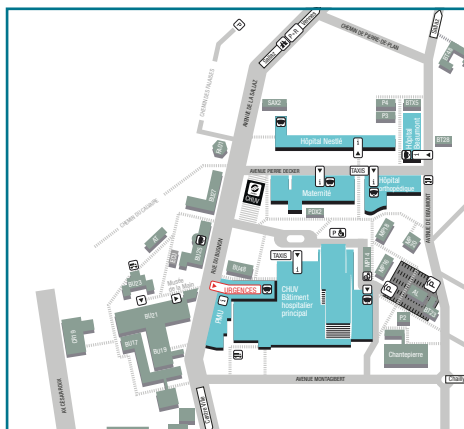
14.00-15.15	SESSION 15 B	AUGUSTE TISSOT
	Chlamydial Incs: the “yes, and” effectors	
	Chairs : Claire Bertelli, Lausanne (CH) ; J. Stephen Dumler, Baltimore (US)	
14.00-14.30	Chlamydia T3SS effectors: key examples	
M-51	Elizabeth Rucks, Omaha (US)	
14.30-15.00	Cell biology of <i>Chlamydia</i>	
M-52	Richard Hayward, Cambridge (GB)	
15.00-15.15	<i>Neisseria gonorrhoeae</i> beta-lactamase alleviates amoxicillin-induced chlamydial persistence in vitro	
S-59	Cory Ann Leonard, Zurich (CH)	

Friday, August 26th

15.30-16.00	Coffee break	FOYER
16.00-17.30	SESSION 16 – KEYNOTE	CÉSAR ROUX
	WHAT'S NEW?	
	Chairs : Chantal Bleeker-Rovers, Nijmegen (NL) ; Gilbert Greub, Lausanne (CH)	
16.00-16.45	<i>Anaplasma phagocytophilum</i> Host-Pathogen Interactions: New Insights into Mechanisms For Host Cell Invasion, Intracellular Survival, and Dissemination	
K-03	Jason A. Carlyon, Richmond (US)	
16.45-17.15	Awards	
17.15-17.30	Farewell	

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