

ESCMID Postgraduate Education Course

Faculty Members

- Barbara Van der Pol (USA)
- Catherine Ong (Singapore)
- Daniela Cirillo (Italy)
- Diane Lindsay (United Kingdom)
- Carole Kebbi Beghdadi (Switzerland)
- Emanuelle Cambau (France)
- Florian Tagini (Switzerland)
- Gilbert Greub (Switzerland)
- Hubert Hilbi (Switzerland)
- Jorgen Skov Jensen (Denmark)
- Mateja Jankovic Makek (Croatia)
- Mike Beeton (United Kingdom)
- Mirja Puollakainen (Finland)
- Oystein Angen (Denmark)
- Patrick Meyer-Sauteur (Switzerland)
- Sally Cutler (United Kingdom)
- Sophie Jarraud (France)
- Sylvia Kleta (Germany)
- Sylvia Bruisten (Netherlands)

Target Audience

Both clinical microbiologists and infectious disease specialists interested in diagnosing and treating intracellular bacteria, namely *Chlamydia* spp., *Legionella*, *Mycobacteria*, *Coxiella*, *Rickettsia*, *Bartonella* and *Listeria*, as well as bacteria of fastidious growth such as *Mycoplasma*. The course may be interesting for infectious diseases specialists involved zoonotic infectious as well as actors involved in One-Health aspects of intracellular bacteria (epidemiologists and veterinaries). This course is suitable for early career and advanced clinicians (microbiologists or infectious diseases specialists) or scientists and combines plenary sessions, clinical cases presentations and panel discussions.

Attendance Grants

ESCMID provides many attendance grants for ESCMID “Young Scientist members”. The grant covers the registration fee, but not travel or accommodation costs. Please apply via the ESCMID website at www.escmid.org/education before 10/04/2024. Applicants will be informed about their acceptance by 15/04/2024.

Contact

Administrative Secretariat

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Organisation

Course Venue

Lausanne University Hospital (CHUV), zones des auditorios (Auditoire Charlotte-Olivier), Lausanne, Switzerland
Rue du Bugnon 46, 1011 Lausanne, Switzerland
www.chuv.ch/fr/chuv-home

Registration Procedure

The registration form can be found on the ESCMID website at www.escmid.org/education. Please return it to the course administrative secretariat by 8.05.2024.

Registration Fee

EUR 500 for ESCMID members
EUR 650 for all others
The fee includes tuition, meals, coffee breaks, and social activities (dinner, entrance to the museum exhibition “World of Microbes”).

Accommodation

Accommodation is **not included** in the fee.

The organizers suggest:

Aquatatis Hôtel

Route de Berne 148 1010 Lausanne Vaud - Suisse Website: www.aquatatis-hotel.ch
Phone: +41 21 654 24 24
E-Mail: info@aquatatis-hotel.ch

Hôtel des patients

Avenue de la Sallaz 8, 1005 Lausanne
Website: www.hoteldespatients.ch
Phone: +41 21 545 41 11
E-Mail: reception.lausanne@hoteldespatients.ch



ESCMID Postgraduate Education Course

Intracellular bacteria, the latest developments: from clinical microbiology to infectious disease

Lausanne, Switzerland
27 – 30 May 2024



Organisers

- ESGMAC
- ESGMD, ESGMYC, ESGVM, ESCCAR

Course coordinator

Prof. Gilbert Greub, Lausanne University Hospital, Lausanne, Switzerland
Dr. Florian Tagini, Lausanne University Hospital, Lausanne, Switzerland

Course objectives

In this course, participants will explore the pathogenesis of clinically important intracellular bacteria. They will learn how they infiltrate host cells, evade the immune system, and replicate within their hosts. The course will also delve into host-pathogen interactions, analysing the various molecular mechanisms developed by the bacteria to interact with the host and modify its responses. The clinical presentation of diseases caused by intracellular bacteria will be examined, enabling participants to recognize the distinct symptoms and exposure associated with such infections. In addition, particular One-Health aspects of intracellular bacteria will be discussed during this course. Participants will be introduced to various diagnostic methods (molecular assays, serology, culture, microscopy) with an emphasis on the importance of timely and accurate diagnosis in managing intracellular bacterial infections. Treatment strategies targeting these organisms will be discussed. There will be a focus on the challenges posed by drug resistance and persistence in these pathogens. The course will feature case studies and provide insight into current research in the field, to put the knowledge into real clinical experiences. Lastly, this course aims to create a networking environment between members of the field, to enable potential European collaboration for clinical or basic research as well as to offer the opportunities for early career participants to meet experts in the field (and thus promote their own careers).

Day 1, 27 May 2024

08:00 – 08:45	Registration
08:45 – 09:00	Welcome & information
09:00 – 09:30	Immunopathogenesis of <i>Mycobacterium tuberculosis</i> Catherine Ong, Singapore
09:30– 10:00	Tuberculosis : clinical presentation, diagnosis & treatment Emanuelle Cambau, France
10:00 – 10:30	Diagnosis of non-tuberculous mycobacterial infections Mateja Jankovic Makek, Croatia
10:30 – 11:00	Coffee break
11:00 – 11:30	Secretion systems: from <i>Legionella</i> to <i>Mycobacteria</i> Florian Tagini, Switzerland
11:30 – 12:00	<i>Legionella</i> : clinical aspects Sophie Jarraud, France
12:00 – 12:30	Added Value of PCR & genomics in the diagnosis of <i>Legionella</i> infections and for epidemiology Diane Lindsay, United Kingdom
12:30 – 14:00	Lunch break
14:00 – 15:30	Workshop: How to develop a diagnostic PCR: <i>C psitacci</i> & <i>C. burnetii</i> as examples Barbara Van der Pol {USA}, Diane Lindsay {United Kingdom}, Mirja Puoallakainen {Finland}, Øystein Angen {Denmark}; Done in parallel with the other workshops
15:30 – 16:00	Coffee break
16:00 – 17:00	Clinical cases presentation and discussion Different speakers
16:00 – 17:00	Q/A session Different speakers
18:00 – 19:45	Social event: Playing with microbes

Day 2, 28 May 2024

08:45 – 09:00	Practical information
09:00 – 09:30	Classification and taxonomy of intracellular bacteria Gilbert Greub, Switzerland
09:30 – 10:00	Global current outbreak of <i>Mycoplasma pneumoniae</i> : the latest data Patrick Meyer-Sauteur, Switzerland
10:00 – 10:30	Diagnostic approaches of chlamydial infections Barbara Van der Pol, USA
10:30 – 11:00	Coffee break
11:00 – 11:30	One Health aspects in outbreak investigation: the case of <i>Chlamydia psittaci</i> Øystein Angen, Denmark
11:30 – 12:00	Atypical pneumonia due to chlamydiae Mirja Puolakkainen, Finland
12:00 – 12:30	Mycobacterium tuberculosis from phenotypic to genotypic antibiotic susceptibility testing Daniela Cirillo, Italy
12:30 – 14:00	Lunch break
14:00 – 15:30	Workshop: How to perform antibiotic susceptibility testing for intracellular bacteria Sylvia Bruisten {Netherlands}, Daniela Cirillo {Italy}, Jorgen Skov Jensen {Denmark}, Florian Tagini {Switzerland} Done in parallel with the other workshops
15:30 – 16:00	Coffee break
16:00 – 22:00	Social event: Walk in the Lavaux Vineyards (UNESCO) Gala dinner

Day 3, 29 May 2024

08:45 – 09:00	Practical information
09:00 – 09:30	Intracellular bacteria and free-living amoebae Sophie Jarraud, France
09:30– 10:00	<i>Coxiella burnetii</i> : diagnostics approaches of Q fever infection Sally Cutler {United Kingdom}
10:00 – 10:30	Spotted fever : clinical presentation and diagnostic aspects Gilbert Greub, Switzerland
10:30 – 11:00	Coffee break
11:00 – 11:30	Legionella pneumophila: one T4SS and effectors galore Hubert Hilbi, Switzerland
11:30– 12:00	<i>Chlamydia trachomatis</i> : clinical presentation Florian Tagini, Switzerland
12:00 – 12:30	Chlamydia-related bacteria Carole Kebbi Beghdadi, Switzerland
12:30 – 14:00	Lunch break
14:00 – 15:30	Workshop: How to culture intracellular bacteria Sophie Jarraud {France}, Emanuelle Cambau {France}, Gilbert Greub {Lausanne} Done in parallel with the other workshops.
15:30 – 16:00	Coffee break
16:00 – 17:00	Clinical cases presentation and discussion Different speakers
16:00 – 17:00	Q/A session Different speakers
17:45 – 19:45	Social event: Visit of the “World of Microbes” (an exhibition in a museum in Lausanne)

Day 4, 30 May 2024

08:45 – 09:00	Next event and picture of the course participants Gilbert Greub & Florian Tagini
09:00 – 09:30	Biology of <i>Mycoplasma pneumoniae</i> Mike Beeton, United Kingdom
09:30– 10:00	Genital mycoplasma: clinical presentation and diagnostic issues Sylvia Bruisten, Netherlands
10:00 – 10:30	Challenges of <i>in vitro</i> propagation and antimicrobial susceptibility testing of <i>Mycoplasma genitalium</i> Jorgen Skov Jensen, Denmark
10:30 – 11:00	Coffee break
11:00 – 11:30	Cell corruption by intracellular bacteria Gilbert Greub, Switzerland
11:30 – 12:00	Listeria monocytogenes: clinical presentation and diagnosis Sylvia Kleta, Germany
12:00 – 12:30	Round table: Lessons from intracellular bacteria to clinicians and microbiologists All invited speakers
12:30 – 14:00	Farewell



ESGMAC ESCMID STUDY GROUP FOR MYCOPLASMA AND CHLAMYDIA INFECTIONS
European Society of Clinical Microbiology and Infectious Diseases



ESGMYC ESCMID STUDY GROUP FOR MYCOBACTERIAL INFECTIONS
European Society of Clinical Microbiology and Infectious Diseases



ESGVM ESCMID STUDY GROUP FOR VETERINARY MICROBIOLOGY
European Society of Clinical Microbiology and Infectious Diseases



ESGMD ESCMID STUDY GROUP FOR GENOMIC AND MOLECULAR DIAGNOSTICS
European Society of Clinical Microbiology and Infectious Diseases



ESCCAR European Society of Chlamydia, Coxiella, Anaplasma, Rickettsia and other intracellular bacteria