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

August, 24-27, 2021
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
Aebi Sébastien
Ardisone Silvia
Jacquier Nicolas
Kebbi-Beghdadi Carole

Institut de Microbiologie
Université de Lausanne – CHUV

Congress office Management
Meeting.com Congress Organisation
Rue des Pâquis 1 • CH-1033 Cheseaux-sur-Lausanne
www.meeting-com.ch • info@meeting-com.ch • T 021 312 92 61
ORGANIZING SOCIETIES

American Society for Rickettsiology (ASAR)
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 Homer, United Kingdom
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Board Member  Angelika Stari, Austria
Board Member  Per-Anders Mårdh, Finland
Board Member  Matthias Maas, Austria
Board Member  Judit Deák, Hungary
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

Committees

EUROPEAN STUDY GROUP ON

ESGMD Executive Committee
Chair  Gilbert Greub, Switzerland
Secretary  Hege Vangstein Aarnot, Norway
Treasurer  Frederic Laurent, France
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ESGAMC Executive Committee
Chair  Ran Nir-Paz, Israël
Secretary  Cecile Bébéar, France
Treasurer  Gilbert Greub, Switzerland
Education Officer  Katherine Loeens, Belgium
Science Officer  Michael Beeton, United Kingdom

AWARDS COMMITTEE

Best Poster Award
Pierre-Edouard Fournier, France
Carole Kebbi-Beghdadi, Switzerland
Beate Henrichfreise, Germany

Best Oral Award
Chlamydia
Nicolas Jacquier, Switzerland
Servaas Morré, The Netherlands
Mirja Puollakainen, Finland

Best Oral Award
Rickettsia
José A. Oteo, Spain
Daniel Paris, Switzerland
Aranzazu Portillo Barrio, Spain

Best Oral Award
Others
Chantal Bleeker-Rovers, The Netherlands
Max Maurin, France
Ran Nir-Paz, Israël
Dear Colleagues,

The “2021 International intracellular bacteria meeting” will take place from 24th to 27th August 2021, in Lausanne, Switzerland.

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.

Looking forward to welcoming you in Lausanne.

Best regards,

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

Tuesday, August 24th

08.00 Registration
08.50 Welcome word

09.00-10.30 SESSION 1

KEYNOTES
CÉSAR ROUX
Chairs : Aranzazu Portillo Barrio, La Rioja (ES); Gilbert Greub, Lausanne (CH)
09.00-09.45 Chlamydia is a Master Cell Biologist: The Secret Life of an Intracellular Pathogen Joanne Engel, San Francisco (US)
09.45-10.30 Rickettsia: lessons from genomics Pierre-Edouard Fournier, Marseille (FR)

10.30-11.00 Coffee break

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 Manipulation of host cholesterol in the bacterial intracellular niche Stacey D. Gilk, Indianapolis (US)
11.30-12.00 Anaplasma: cell corruption by an intracellular bacteria J. Stephen Dumler, Bethesda (US)
12.00-12.15 Short talk
12.15-12.30 Short talk
Tuesday, August 24th

11.00-12.30 SESSION 2 B
Epidemiology of agents of atypical pneumonia
Chairs: Cécile Bebear, Bordeaux (FR); Ran Nir-Paz, Jerusalem (IL)

11.00-11.30 Mycoplasma pneumoniae infections across Europe and Israel (2011-2016)
Michael Beeton, Cardiff (GB)

11.30-12.00 Co-circulation within a network structured population induce cycling epidemics
Vicky Chalker, London (GB)

12.00-12.15 Short talk
12.15-12.30 Short talk

12.30-14.00 Lunch time and posters (even numbers <200) FOYER

12.30-13.30 Closed ESCCAR Committee Meeting SEMINAR ROOM 3

14.00-15.30 SESSION 3 A
Diagnosis
Chairs: Hege Vangstein Aamot, Lorenskog (NO); Onya Opota, Lausanne (CH)

14.00-14.30 Diagnosis of rickettsial infections
Didier Raoult, Marseille (FR)

14.30-15.00 Q fever: what’s new?
Chantal Bleeker-Rovers, Nijmegen (NL)

15.00-15.15 Short talk
15.15-15.30 Short talk

15.30-16.00 Coffee break FOYER

16.00-17.30 SESSION 4
Molecular pathogenesis
Chairs: Joanne Engel, San Francisco (US); Jaime Mota, Caparica (PT)

16.00-16.30 Molecular pathogenesis of chlamydial infection
Raphaël Valdivia, Durham (US)

16.30-17.00 Molecular pathogenesis of Bartonella infection
Christoph Dehio, Basel (CH)

17.00-17.15 Short talk
17.15-17.30 Short talk

18.00-20.00 KROBS EVENING SEMINAR ROOMS 3-4
Program

Wednesday, August 25th

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

09.00-10.30  SESSION 5 A  CÉSAR ROUX
MOLECULAR MICROBIOLOGY AND BACTERIAL GENETICS
Chairs: Deborah Dean, Oakland (US); Servaas Morré, Maastricht (NL)
09.00-09.30  Genetic dissection of chlamydial infection biology
Ken Fields, Lexington (US)
09.30-10.00  Transcriptional regulation of Chlamydia
Ming Tan, Irvine (US)
10.00-10.15  Short talk
10.15-10.30  Short talk

09.00-10.30  SESSION 5 B  AUGUSTE TISSOT
FROM THE BENCH TO BEDSIDE
Chairs: Mirja Puolakkainen, Helsinki (FI); Paul Newton, Ventiane (US)
09.00-09.30  Scrub typhus: an overview
Daniel Paris, Basel (CH)
09.30-10.00  Typhus and spotted fever: clinical overview
Amel Letaïf, Sousse (TN)
10.00-10.15  Short talk
10.15-10.30  Short talk

10.30-11.00  Coffee break  FOYER

11.00-12.30  SESSION 6 A  CÉSAR ROUX
BACTERIAL DIVISION AND PEPTIDOGLYCAN
Chairs: Beate Henrichfreise, Bonn (DE); Raphaël Valdivia, Durham (US)
11.00-11.30  Peptidoglycan of chlamydia
Georges Liechti, Bethesda (US)
11.30-12.00  Chlamydial division
Nicolas Jacquier, Lausanne (CH)
12.00-12.15  Short talk
12.15-12.30  Short talk

11.00-12.30  SESSION 6 B  AUGUSTE TISSOT
MOLECULAR DIAGNOSIS OF INTRACELLULAR BACTERIA
Chairs: Victoria Jane Chalker, London (GB); Michael Beeton, Cardiff (GB)
11.00-11.30  How to develop a new diagnostic PCR to detect intracellular bacteria?
Kate Templeton, Edinburgh (GB)
11.30-12.00  Added value of PCR for diagnosis of atypical pneumonia
Katherine Loens, Antwerp (BE)
12.00-12.15  Short talk
12.15-12.30  Short talk

12.30-13.00  Committee of European Chlamydia Society  SEMINAR ROOM 3

12.30-14.00  Lunch time and Posters (even numbers >200)  FOYER

14.00-15.30  SESSION 7 A  CÉSAR ROUX
GENOMICS
Chairs: Linda Mueller, Lausanne (CH); Ted Hackstadt, Hamilton (US)
14.00-14.30  Lessons from Chlamydia trachomatis genomics
Deborah Dean, Oakland (US)
14.30-15.00  Genomics of Chlamydia-related bacteria
Trestan Pillonel, Lausanne (CH)
15.00-15.15  Short talk
15.15-15.30  Short talk
### Wednesday, August 25th

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair(s)</th>
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<tr>
<td>14.00-15.30</td>
<td><strong>SESSION 7 B</strong>&lt;br&gt;<strong>CELL &amp; MOLECULAR BIOLOGY OF OTHER INTRACELLULAR BACTERIA</strong></td>
<td>Helena Seth-Smith, Basel (CH); Steven Ball, Lille (FR)</td>
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<td>14.00-14.30</td>
<td>The developmental cycle of Orientia tsutsugamushi</td>
<td>Jeanne Salje, Newark (US)</td>
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<td>14.30-15.00</td>
<td>Formation of a pathogen vacuole: how Legionella pneumophila kills one bird with many stones</td>
<td>Hubert Hilbi, Zurich (CH)</td>
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<td>15.00-15.15</td>
<td>Short talk</td>
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<td>15.15-15.30</td>
<td>Short talk</td>
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<td>15.30-16.00</td>
<td>Coffee break</td>
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<td>16.00-17.30</td>
<td><strong>SESSION 8</strong>&lt;br&gt;<strong>EVOLUTION</strong></td>
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<td>16.00-16.30</td>
<td>Role of chlamydia in the evolution of plant plastids</td>
<td>Steven Ball, Villeneuve d'Ascq (FR)</td>
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<td>16.30-17.00</td>
<td>Evolution of intracellular bacteria</td>
<td>Gilbert Greub, Lausanne (CH)</td>
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<td>17.00-17.15</td>
<td>Short talk</td>
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<td>17.15-17.30</td>
<td>Short talk</td>
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<td>18.00-19.00</td>
<td>Visit of Diagnostic Laboratories</td>
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### Thursday, August 26th

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<tr>
<th>Time</th>
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<tr>
<td>07.00-08.00</td>
<td>Running from Ouchy (lakeshore, 6-7 km)</td>
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<td>08.00</td>
<td>Registration</td>
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<tr>
<td>09.00-10.30</td>
<td><strong>SESSION 9 A</strong>&lt;br&gt;<strong>CELL BIOLOGY</strong></td>
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<td>09.00-09.30</td>
<td>Rickettsia/host-cell interactions</td>
<td>Ted Hackstadt, Hamilton (US)</td>
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<td>09.30-10.00</td>
<td>Rickettsia typhi Subverts Intracellular Trafficking to Establish Replicative Niche</td>
<td>Mohammed Sayeedur Rahman, Baltimore (US)</td>
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<td>10.00-10.15</td>
<td>Short talk</td>
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<tr>
<td>09.00-10.30</td>
<td><strong>SESSION 9 B</strong>&lt;br&gt;<strong>IMMUNOLOGY AND HOST GENETICS</strong></td>
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<td>09.00-09.30</td>
<td>Host genetics: impact on Chlamydia infection</td>
<td>Servaas Morré, Maastricht (NL)</td>
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<td>09.30-10.00</td>
<td>Chlamydia Vaccine Initiative What, Who, How?</td>
<td>Toni Darville, Chapel Hill (US)</td>
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<td>10.00-10.15</td>
<td>Short talk</td>
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<td>10.30-11.00</td>
<td>Coffee break</td>
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Thursday, August 26th

11.00-12.30 SESSION 10 A
CÉSAR ROUX
MOLECULAR BIOLOGY
Chairs: Stacey D. Gilk, Indianapolis (US); J. Stephen Dumler, Bethesda (US)
11.00-11.30 Metabolic Plasticity and Host Cell Tropism in Coxiella burnetii
Anders Omsland, Pullman (US)
11.30-12.00 Insights into Ehrlichia ruminantium pathogenesis
Damien Meyer, Guadeloupe (FR)
12.00-12.15 Short talk
12.15-12.30 Short talk

11.00-12.30 SESSION 10 B
AUGUSTE TISSOT
METAGENOMICS AND INTRACELLULAR BACTERIA
Chairs: Kate Templeton, Edinburg (GB); Max Maurin, Grenoble (FR)
11.00-11.30 The microbiome of ticks: an overview
Aranzazu Portillo Barrio, La Rioja (ES)
11.30-12.00 Chlamydia trachomatis & urogenital mycoplasma: lessons from vaginal metagenomics
Cécile Bebear, Bordeaux (FR)
12.00-12.15 Short talk
12.15-12.30 Short talk

12.30-14.00 Lunch time and posters (odd numbers <200)
FOYER
12.30-13.00 Closed EU Society Chlamydia Meeting
SEMINAR ROOM 3

14.00-15.30 SESSION 11 A
CÉSAR ROUX
VETERINARY MICROBIOLOGY
Chairs: Nicole Borel, Zurich (CH); José A. Oteo, La Rioja (ES)
14.00-14.30 Chlamydia infections in animals and their zoonotic potential
Daisy Vanrompay, Gent (BE)
14.30-15.00 Chlamydia abortus vaccine
David Longbottom, Midlothian (GB)
15.00-15.15 Short talk
15.15-15.30 Short talk

14.00-15.30 SESSION 11 B
AUGUSTE TISSOT
PLASMIDS OF INTRACELLULAR BACTERIA
Chairs: Silvia Ardissone, Lausanne (CH); Pierre-Edouard Fournier, Marseille (FR)
14.00-14.30 Chlamydia plasmids
Ian Clarke, Southampton (GB)
14.30-15.00 Rickettsial plasmids and transformation
Juan J. Martinez, Baton Rouge (US)
15.00-15.15 Short talk
15.15-15.30 Short talk
15.30-16.00 Coffee break
FOYER

16.00-17.30 SESSION 12
CÉSAR ROUX
SECRETION SYSTEMS
Chairs: Carole Kebbi-Beghdadi, Lausanne (CH); Richard Hayward, Cambridge (GB)
16.00-16.30 New insights into how Chlamydia effectors modulate host cell functions
Cherilyn Elwell, San Francisco (US)
16.30-17.00 The role of type III secreted proteins during the Chlamydia infectious cycle
Jaime Mota, Caparica (PT)
17.00-17.15 Short talk
17.15-17.30 Short talk

18.15 Visit of the Olympic Museum
OLYMPIC MUSEUM
19.00 Aperitif
QUAI D’OUCHY 1
20.00 Gala dinner
1006 LAUSANNE
Friday, August 27th

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

08.00  Registration

09.00-10.30  SESSION 13 A  CÉSAR ROUX
NEW PATHOGENS
Chairs: Amel Letaïef, Sousse (TN); David Longbottom, Midlothian (GB)

09.00-09.30  Role of Chlamydia-related bacteria in human diseases
Mirja Puolakkainen, Helsinki (FI)

09.30-10.00  The role of Candidatus Rickettsia as humans pathogens
Jose A. Oteo, La Rioja (ESP)

10.00-10.15 Short talk
10.15-10.30 Short talk

09.00-10.30  SESSION 13 B  AUGUSTE TISSOT
CELL WALL AND ADHESINS
Chairs: Toni Darville, Chapel Hill (US); Nicolas Jacquier, Lausanne (CH)

09.00-09.30  The chlamydial peptidoglycan remodeling machinery
Beate Henrichfreise, Bonn (DE)

09.30-10.00  Overview on chlamydial adhesins
Johannes Hegemann, Düsseldorf (DE)

10.00-10.15 Short talk
10.15-10.30 Short talk

10.30-11.00  Coffee break

11.00-12.30  SESSION 14 A  CÉSAR ROUX
LAY COMMUNICATION
Chairs: Carole Kebbi-Beghdadi, Lausanne (CH); Dmitry Kopelyanskiy, Lausanne (CH)

11.00-11.15  Pint of Science bridges the gap. Scientists and public meet at a bar
Dmitry Kopelyanskiy, Lausanne (CH)

11.15-11.30  How a spoonful of viruses helps to fight against antibiotic resistance
Shawna McCallin, Lausanne (CH)

11.30-11.45  The Dark and Bright side of the force: teaching the importance of microbes from school to University
Pilar Junier, Neuchâtel (CH)

11.45-12.00  www.microbes.ch: a website dedicated to lay communication about pathogenic microorganisms
Carole Kebbi-Beghdadi, Lausanne (CH)

12.00-12.15  Lay communications using movies: the exposure science film Hackathon project
Enrico Milanese, Lausanne (CH)

12.15-12.30  Short talk

11.00-12.30  SESSION 14 B  AUGUSTE TISSOT
EPIDEMIOLOGY
Chairs: Victoria Jane Chalker, London (GB); Philippe Christe, Lausanne (CH)

11.00-11.30  Epidemiology and treatment of scrub typhus and murine typhus
Paul Newton, Vientiane (LA)

11.30-12.00  Entomology: a key tool for epidemiology of intracellular bacteria
Idir Bitam, Alger (DZ)

12.00-12.15  Short talk
12.15-12.30  Short talk

12.30-14.00  Lunch time and posters (odd numbers >200)

10.30-11.00  Coffee break

11.00-12.30  SESSION 14 A  CÉSAR ROUX
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12.15-12.30  Short talk
Friday, August 27th

14.00-15.30 SESSION 15 A  
CÉSAR ROUX
PATHOGENESIS OF INTRACELLULAR BACTERIA
Chairs: Giorgia Caruana, Lausanne (CH); Olivier Peter (CH)

14.00-14.30 Describing the interaction between Bartonella adhesin A and Fibronectin as a novel therapeutic concept to treat bacterial infections  
Volkhard Kempf, Frankfurt am Main (DE)

14.30-15.00 Francisella tularensis: a water-borne pathogen  
Max Maurin, Grenoble (FR)

14.00-15.30 SESSION 15 B  
AUGUSTE TISSOT
CELL MICROBIOLOGY
Chairs: Claire Bertelli, Lausanne (CH); Damien Meyer, Guadeloupe (FR)

14.00-14.30 Chlamydia T3SS effectors: key examples  
Elizabeth Rucks, Omaha (US)

14.30-15.00 Cell biology of Chlamydia  
Richard Hayward, Cambridge (GB)

15.00-15.15 Short talk

15.15-15.30 Short talk

14.00-15.30 SESSION 15 A  
CÉSAR ROUX
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14.00-15.30 SESSION 15 B  
AUGUSTE TISSOT
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Chairs: Claire Bertelli, Lausanne (CH); Damien Meyer, Guadeloupe (FR)

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Elizabeth Rucks, Omaha (US)

14.30-15.00 Cell biology of Chlamydia  
Richard Hayward, Cambridge (GB)

15.00-15.15 Short talk

15.15-15.30 Short talk

15.30-16.00 Coffee break

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 Molecular microbiology of Anaplasma  
Jason A. Carlyon, Richmond (US)

16.45-17.15 Awards

17.15-17.30 Farewell
International intracellular bacteria meeting 2021

Please return to
Meeting.com Sàrl • Congress Management
PO box 100 • CH-1033 Cheseaux-sur-Lausanne
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info@meeting-com.ch

Online registration on
www.meeting-com.ch/Conferences/Meetings/2020

Title □ Prof □ Dr □ Mr □ Mrs □ Ms

Institution

First name □ Family name

Address

Postal code/City/Country

E-mail

Registration fee

Early fee

Late fee & onsite

Participation

(before August 1, 2021)
□ CHF 500.00
□ CHF 650.00

(≥ August 2, 2021)
□ CHF 300.00
□ CHF 400.00

Student

Gala Dinner at the Olympic Museum on Thursday, August 26, 2021
□ CHF 120.00 (TTC) limited places

Included in registration fee

• Attendance at the Scientific Sessions & Exhibition area
• Certificate of participation
• Congress Material (with personalized Name badge)
• Coffee breaks and lunches according to programme.

Payment & cancellation policy

A payment by credit card is mandatory for any registration from outside Switzerland. In case of cancellation 30 days prior to the event, the refund of the amount paid will be done net of CHF 60.00 for administrative costs. Thereafter no refund possible. Any registration done within the « early bird » time must be paid during this period. If not the case, the invoice is automatically updated at the current price. Legal jurisdiction is Lausanne/Switzerland.