



## Contact

### Administrative Secretariat

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### Target Audience

Clinicians or clinical microbiologists who are confronted in their practice to the need to address the specificity of their patient to achieve the best possible management.

### Faculty Members

Marylyn Addo, Hamburg, Germany  
Werner C. Albrich, St. Gallen, Switzerland  
Julia Bielecki, Basel, Switzerland  
Pierre -Yves Bochud, Lausanne, Switzerland  
Susanna Esposito, Perugia, Italy  
Angela Huttner, Geneva, Switzerland  
Benedikt Huttner, Geneva, Switzerland  
Jeroen Schouten, Nijmegen, Netherlands  
Simon Le Hello, Caen, France  
Alexandra Mailles, Saint -Maurice, France  
Marco Rinaldo Oggioni, Leicester, United Kingdom  
Patricia Pavese, La Tronche, France  
Maurizio Sanguinetti, Rome, Italy  
Chrysanthi Skevaki, Marburg, Germany  
Marc J. Struelens, Stockholm, Sweden  
Thomas Grenholm Tängdén, Uppsala, Sweden  
Henri Van Werkhoven, Utrecht, Netherlands  
Noémie Wagner, Geneva, Switzerland

## ESCMID Postgraduate Education Course

### Second Course on Precision Medicine

Rome, Italy  
26 – 28 September 2019



## ESCMID Postgraduate Education Course

### Second Course on Precision Medicine

#### Organiser

- ESCMID Parity Commission

#### Course Coordinators

- Prof. Maurizio Sanguinetti, Rome, Italy
- Dr Alexandra Mailles, Saint-Maurice, France
- Dr Angela Huttner, Geneva, Switzerland
- Dr Giulia De Angelis, Rome, Italy

#### Course Objectives

Upon completion of this course, participants will be able to:

- Understand the pharmacokinetic and epidemiologic heterogeneity in patient populations traditionally excluded from clinical studies such as the critically ill; the elderly; those with renal insufficiency; the obese; and female patients
- Understand the evidence (or lack thereof) for medical decision-making in these populations
- Explore both the limits and the strengths of current “one-size-fits-all” guidelines
- Understand the clinical implications of variations in local epidemiology, microbiota, and regional perceptions regarding antimicrobial use
- Explore the clinical evidence for recommended durations of antimicrobial therapy
- Understand the variation in pharmacokinetics across populations
- Explore the ethical dilemmas in antimicrobial decision-making (the individual versus society)

# Course Programme

## Thursday, 26 September 2019

- 13:30 Registration  
14:00 Welcome address and introduction  
*Maurizio Sanguinetti and PC*

### Session 1 Immunology and genetics

- 14:15 Know your patient's risks I: sex-based and other differences in infectious disease pathogenesis and immunity  
*Marylyn Addo*
- 14:45 Know your patient's risks II: learning your patient's pharmacokinetics... as much as possible  
*Thomas Tängdén*
- 15:15 Genetic testing: can it make an infectious disease diagnosis?  
*Pierre-Yves Bochud*
- 15:45 Coffee break
- 16:00 "Omics": myths and real-life applications  
*Marco Oggioni*

### Session 2 Ethical issues

- 16:30 Ethnicity issues in health-care : the example of the refugee crisis  
*Noémie Wagner*
- 17:00 The individual versus society: ethical dilemmas in antimicrobial decision-making  
*Benedikt Huttner*  
Free time and dinner in Rome

## Friday, 27 September 2019

### Session 3 Toward individualised diagnosis and therapy of infections

- 09:00 The specificities and issues of personalized medicine in children  
*Julia Bielicki*
- 09:45 Fecal transplant for the eradication of challenging digestive germs  
*Maurizio Sanguinetti*
- 10:30 NGS/WGS as an individualized diagnosis of infection: interpretation and consequences in the context of outbreaks  
*Simon Le Hello*
- 11:15 Coffee break
- 11:30 Viral respiratory infections in vulnerable populations  
*Chrysanthi Skevaki*
- 2:15 Alternate strategies in the age of resistance: delayed prescription, vaccines, antibodies  
*Angela Huttner*
- 13:00 Lunch
- 14:00 Taking into account the local epidemiology to prescribe the most accurate antibiotic treatment in your hospital and ward  
*Jeroen Schouten*
- 14:30 Special populations: the immunosuppressed, the critically ill, and others  
*Patricia Pavese*
- 15:00 Guidelines and evidence in infectious diseases: where do they come from, and how applicable are they?  
*Benedikt Huttner*
- 15:15 Coffee break
- 15:30 Durations of therapy: from arbitrary numbers to biomarker-and algorithm-based guidance  
*Werner Albrich*
- 16:00 Interactive clinical cases proposed by the attendees or the speakers  
*Panel of speakers to discuss the cases*  
Free time and dinner in Rome

## Saturday, 28 September 2019

### Session 4 Prevention, public health and epidemiology

- 09:00 Individual medicine vs epidemiology and public health policy  
*Mark Struelens*
- 09:30 Will individualisation of care diminish or improve the evidence base?  
*Henri Van Werkhoven*
- 10:00 Designing vaccines for specific populations and germs (influenza, shingles, etc)  
*Suzanna Esposito*
- 10:30 Adapting prevention and prophylaxis to individual risk assessment  
*Alexandra Mailles*
- 11:00 Concluding remarks and evaluation of the course

# Organisation

## Course Venue

Università Cattolica del S. Cuore  
Largo Francesco Vito 1  
00167 Roma, Italy

## Registration Procedure

The registration link can be found on the ESCMID website at [www.escmid.org/education](http://www.escmid.org/education). Please complete registration by 15 July 2019.

## Registration Fee

EUR 300 for ESCMID members  
EUR 400 for all others

The fee includes course material, lunches and coffee breaks.

## Attendance Grants

ESCMID provides a number of 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](http://www.escmid.org/education) before 1 July 2019. Applicants will be informed about their acceptance by 31 July 2019.

## CME Accreditation

The organiser of the course will apply for European CME accreditation through EACCME.