Target Audience
Up to 40 infectious disease, ICU specialists from academia (or companies), clinical microbiologists, pharmacologists, pharmacists, who work or want to work in the field of antibacterial therapy.

Faculty Members
Roger Brüggemann, Nijmegen, Netherlands
Hartmut Derendorf, Gainesville, United States
Lena Friberg, Uppsala, Sweden
Angela Huttner, Geneva, Switzerland
Deborah Marriott, Darlinghurst, Australia
Johan Willem Mouton, Rotterdam, Netherlands
Anouk Edwina Muller, The Hague, Netherlands
Roger L. Nation, Melbourne, Australia
Elisabet Nielsen, Uppsala, Sweden
Federico Pea, Udine, Italy
Jason Roberts, Brisbane, Australia
Thomas Tängdén, Uppsala, Sweden
Ursula Theuretzbacher, Vienna, Austria
Brian Tsuji, Buffalo, United States
Markus Zeitlinger, Vienna, Austria
Course Programme

**Thursday, 11 April 2019**

08:15  Registration
08:30  Welcome and introduction  
Markus Zeitlinger
08:35  Why do we need to reconsider standard dosing regimens?  
Johan Mouton, Ursula Theuretzbacher, Roger Nation
09:00  Basics of dosing  (interactive)  
Hartmut Derendorf
09:45  Dosing in special patient populations  (interactive)  
Federico Pea
10:30  Coffee break
11:00  Current strategies for MIC determination and setting clinical breakpoints  
Anouk Muller
11:45  Population PK modelling for individualised dosing  
Elisabet Nielsen
12:15  Lunch
13:15  Preclinical infection models and what are experimental and clinical data supporting PK/PD targets?  
Brian Tsuji
14:15  Mathematical modelling of preclinical data to predict dosing strategies  
Lena Friberg
15:00  Coffee break
15:30  Optimal dosing and continuous or prolonged infusion of beta-lactams and vancomycin – what is the evidence?  
Jason Roberts
16:15  How to optimise the use of aminoglycosides, quinolones and polymyxins  (clinical case studies)  
Deborah Marriott
17:00  End of day

**Friday, 12 April 2019**

09:00  Impact of tissue penetration and when should local administration of antibiotics be considered?  
Markus Zeitlinger
09:45  Principles of individualised dosing based on therapeutic drug monitoring  
Roger Brüggemann
10:15  Coffee break

10:45  How to apply knowledge on PK/PD and TDM in clinical practice  (interactive session)  
Thomas Tängdén, Angela Huttner
12:15  Lunch
13:30  A world with precision dosing and TDM  (pros and cons)  
Roger Brüggemann, Jason Roberts
14:15  Future perspectives – clinical breakpoints and dosing in 20 years?  
Johan Mouton
15:00  Coffee break
15:30  Closing remarks and any remaining questions

Organization

**Course Venue**  
Van der Valk Hotel Rotterdam-Blijdorp  
Energieweg 2  
3041 JC, Rotterdam, Netherlands

**Registration Procedure**  
Register now online on the ESCMID website at www.escmid.org/education. Registration deadline is 28 February 2019.

**Registration Fee**
- EUR 500 for ESCMID members
- EUR 650 for all others

The fee includes course materials and two nights of accommodation  (nights of 10 & 11 April)

**Attendance Grants**  
ESCMID provides a number of attendance grants for ESCMID Young Scientist Members. The grant covers the registration fee.

Please apply via the ESCMID website at www.escmid.org/education before 30 January 2019. Applicants will be informed about their acceptance by 15 February 2019.

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