Target Audience
Up to 30 physicians, pharmacists, clinical microbiologists/toxicologists and biomedical scientists or trainees with an interest in pharmacometrics.

Faculty Members
Ghaith Aljayoussi, Liverpool, United Kingdom
Fernando Docobo-Pérez, Seville, Spain
Timothy Felton, Liverpool, United Kingdom
Sylvain Goutelle, Lyon, France
William Hope, Liverpool, United Kingdom
Michael Neely, Los Angeles, CA, United States
Virginia Ramos Martin, Liverpool, United Kingdom
Jason Roberts, Brisbane, Australia
Jean Baptiste Woillard, Limoges, France

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Scientific picture: Visual predictive check of the final model. Dots represent the observed data, and lines represent the 5th, 25th, 50th, 75th, and 95th percentiles of the observed data. The shaded areas are the 95% confidence intervals of the 5th, 25th, 50th, 75th, and 95th percentiles as calculated from 5000 simulations from the final pharmacokinetic model.
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Course Venue
School of Medicine and Pharmacy
University Claude Bernard Lyon 1
Rockefeller campus
8 avenue Rockefeller
69373 Lyon cedex 08
France

Registration Procedure
Register now online on the ESCMID website at www.escmid.org/education. Registration deadline is 7 March 2016.

Registration Fee
EUR 350 for ESCMID members (Full Membership/Young Scientist Membership)
EUR 550 for all others
The registration fee includes lunch (on 3 days) and dinner (on 2 days). Travel and accommodation are not included.

Attendance Grants
ESCMID provides a number of attendance grants for ESCMID "young scientist members". The grant covers the registration fee. Travel and accommodation are not included. Please apply via the ESCMID website at www.escmid.org/education before 8 February 2016. Applicants will be informed about their acceptance by 22 February 2016.

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

Course Programme

Wednesday, 13 April 2016
Pmetrics
09:00  Review of pre-workshop tutorial.  
William Hope
10:00  Fitting data to models in Pmetrics.  
Jason Roberts
12:00 Lunch
13:30  Details and plotting of Pmetrics objects made during a run. Timothy Felton
15:00  Pmetrics modeling exercises with tutors.  
All faculty members
17:30 Adjourn

Thursday, 14 April 2016
Pmetrics/BestDose
09:00  Simulating and probability of target attainment with Pmetrics.  
Fernando Docobo-Pérez
10:30  Simulation exercises with tutors.  
All faculty members
12:00 Lunch
13:30  Understanding how BestDose works and the 3 modes. Michael Neely
14:30  Using BestDose stand-alone.  
Sylvain Goutelle
15:30  BestDose exercises with tutors.  
All faculty members
17:30 Adjourn

Friday, 15 April 2016
BestDose/Projects
09:00  Using BestDose in R and on the web.  
Michael Neely
10:30  BestDose server exercises with tutors.  
All faculty members
12:00 Lunch
13:30 Closing and certificates of attendance
14:00 Staff available for questions or work on your own data

Organizers
- ESCMID PK/PD of Anti-Infectives Study Group (EPASG)
- University Claude Bernard, Lyon, France
- University of Seville, Seville, Spain
- University of Liverpool, Liverpool, United Kingdom
- Laboratory of Applied Pharmacokinetics and Bio-informatics (LAPKB), Los Angeles, CA, United States
- University of Southern California (USC), Los Angeles, CA, United States
- Children's Hospital, Los Angeles, CA, United States
- University of Queensland, Brisbane, Australia

Course Coordinators
- Fernando Docobo-Pérez, Seville, Spain
- Sylvain Goutelle, Lyon, France

Course Objectives
- Define PK structural models that can be solved analytically and models that require differential equations
- Create PK datasets appropriate for population analysis
- Fit models to data to estimate population and individual distributions of model parameter values
- Make and customize pharmacometric plots, including but not limited to model parameter joint densities, model diagnostics, and individual or population observations and predictions
- Perform basic and Monte Carlo simulations for PK-PD analysis of antimicrobials in relevant software packages
- Optimize dosing for an individual patient using non-parametric, multiple-model Bayesian adaptive control