ESCMID/ASM Conference on Drug Development to Meet the Challenge of Antimicrobial Resistance

Vienna, Austria
21 – 23 September 2016

Scientific Programme

Wednesday, 21 September 2016

12:00 – 14:30  Registration

**Plenary Session 1**
14:30 – 14:45  ESCMID introductory lecture. *Mario Poljak, ESCMID President*
14:45 – 15:15  AMR: a global challenge. *TBD*

**Symposium 1**
New chemical space: where are new antibiotics coming from?
Chair: *Tom Parr*
15:15 – 15:45  Antibiotics do not necessarily obey Lopinsky rules. *Matt Cooper*
15:45 – 16:15  Discovering new antibiotics in nature. *Heike Brötz-Osterhelt*
16:15 – 16:45  Why target-based drug discovery has not been very successful. *David Payne*
16:45 – 17:15  Getting drugs into Gram-negative bacteria. *Mathias Winterhalter*

17:30 – 19:00  Welcome reception

Thursday, 22 September 2016

**Plenary Session 2**
08:00 – 08:30  Drug development within the context of AMR: giving new molecules the best chance. *John Rex*

**Symposium 2**
Recent advances in regulation to meet the challenge of AMR
Chair: *Christa Wirthumer-Hoche*
08:00 – 08:30  FDA. *Ed Cox*
08:30 – 09:00  EMA. *Marco Cavaleri*
09:00 – 09:30  Common regulatory issues for drug development programmes. *Mair Powell*

09:30 – 10:00  Coffee Break

**Symposium 3**
*In-vitro* susceptibility testing and establishing breakpoints for new compounds
Chair: *Alasdair MacGowan*
10:00 – 10:30  Current tools and approaches for setting breakpoints. *Johan Mouton*
10:30 – 11:00  Global harmonization of breakpoints – can it be achieved? *Gunnar Kahlmeter*
11:00 – 11:30  Regulatory issues around test development and validation. *Ron Jones*
11:30 – 12:00  MIC wild type distributions and ECOFFs and their role in setting clinical breakpoints. *John Turnidge*

12:00 – 13:00  Lunch

**Symposium 4**
Developing new drugs for AMR in special populations
Chair: *Mike Sharland*
13:00 – 13:30  Pharmacometrics for special populations. *Johannes Van den Anker*
13:30 – 14:00  Challenges in developing drugs for critical illness. *Jean Chastre*
14:00 – 14:30  Addressing therapeutic challenges of AMR in neonates. *John Bradley*
14:30 – 15:00  Approaches for defining safe and effective regimens for children. *Michael Sharland*

15:00 – 15:30  Coffee Break

**Symposium 5**  
**Getting AMR research funded**  
Chair: *Keith Rodvold*  
15:30 – 16:00  Overview of the current efforts. *Herman Goossen*  
16:00 – 16:30  From big pharma to small and back again. *TBD*  
16:30 – 17:30  Round table: resources for antibiotic drug discovery. Moderator: *David Hooper*  
  - MRC. *Jonathan Pearce*  
  - BARDA. *Joe Larsen*  
  - NIH. *Dennis Dixon*

19:00 – 23:00  Networking event

**Friday, 23 September 2016**

**Plenary Session 3**  
08:00 – 08:30  Drug discovery within the context of AMR: extending beyond ‘me too’ drugs. *Tom Parr*

**Symposium 6**  
**Techniques for accelerating and de-risking drug development**  
Chair: *William Hope*  
08:30 – 09:00  Utilizing PK/PD to increase the probability of successful drug development. *Paul Ambrose*  
09:00 – 09:30  Strength and limitations of pre-clinical models for drug development. *Sujata Bhavnani*  
09:30 – 10:00  Developments in PK/PD modelling and approaches: what to do when the standard model does not describe the data. *Elisabet Nielsen*  
10:00 – 10:30  PK/PD to decrease the development of drug resistance in new molecules. *Arnold Louie*

10:30 – 11:00  Coffee Break

**Symposium 7**  
**Innovative clinical trial design for AMR**  
Chair: *Stephan Harbarth*  
11:00 – 11:30  Real world challenges in performing clinical trials for drug resistant disease. *Steve Projan*  
11:30 – 12:00  Developing drugs in combination. *Michael Dudley*  
12:00 – 12:30  Debate: PK/PD versus frequentist approaches for drug development – Pro. *Tom Lodise*  
12:30 – 13:00  Debate: PK/PD versus frequentist approaches for drug development – Con. *Dean Follmann*

13:00 – 14:00  Lunch

**Interactive Session**  
14:00 – 15:00  Interactive Session: Bring questions about your own molecule!

15:00 – 15:15  Conclusion and closing of the conference

15:15 – 16:15  Open planning meeting for the 2017 conference in the United States (with wine and cheese)