



## Challenges and new concepts in antibiotics research

**Mars 19 – 21, 2018**

Institut Pasteur

Conference Center (C. I. S.)

<http://www.amr-2018.org/>

### Programme

<b>MONDAY, MARCH 19</b>	
10h00 – 17h00	Registration
15h00	<p><b>Welcome addresses and opening</b></p> <p><b>Stewart Cole</b>, General Director, Institut Pasteur, Paris France</p> <p><b>Philippe Sansonetti</b>, LabEx IBEID, Institut Pasteur, France</p>
15h30 – 16h	<p><b>Introductory lecture</b></p> <p><b>Marc Sprenger</b>, Director, Antimicrobial Resistance Secretariat, WHO</p> <p>“The AMR Crisis: a WHO perspective”</p>
16h00 – 16h45	<p><b>Key note speaker</b></p> <p><b>Sharon Peacock (University of Cambridge, UK)</b></p> <p>“Are bacterial pathogens isolated from animals a common cause of drug-resistant infection in humans?”</p>
16h45 - 17h15	Coffee break
17h15 – 19h15	<p><b>Antibiotic resistance – a one health context</b></p> <p>Chair:</p> <p><b>Kamini Walia (Indian Council of Medical Research, India)</b></p> <p>“AMR in India: understanding drivers and opportunities for action”</p> <p><b>Frank Møller Aarestrup (Technical University of Denmark, Lyngby, DK)</b></p> <p>Title to be announced</p> <p><b>Tim Walsh (Cardiff University, Cardiff, UK)</b></p> <p>“One health approach to AMR in LMICs: reality or fantasy?”</p> <p>Two talks selected from abstract</p>
19h15	<b>Welcome Reception at Institut Pasteur</b>

<b>TUESDAY, MARCH 20</b>	
<b>8h45 – 10h25</b>	<b>Resistance and virulence</b> Chair:
	<b>Nassos Typas (EMBL, Heidelberg, DE)</b> "Drugs, bugs and chemical genetics: unravelling unexplored relationships" <b>Sophie Helaine (Imperial College London, UK)</b> "Salmonella persists during infection" Two talks selected from abstract
10h25 – 10h55	Coffee break
10h55 – 12h35	<b>Antibiotics, microbes and models</b> Chair
	<b>Sebastian Bonhoeffer (ETH Zürich, CH)</b> "An old challenge and some new concepts: a dynamical perspective on antibiotic resistance evolution" <b>Martin Blaser (NYU School of Medicine, New York, US)</b> "The antibiotic paradox" Two talks selected from abstract
12h35 – 14h00	Lunch at Institut Pasteur
<b>14h00 – 15h00</b>	<b>Poster Session – Cafe and dessert</b>
<b>15h00 – 16h45</b>	<b>Dissemination of antibiotic resistance</b> Chair:
	<b>Marie-Cécile Ploy (INSERM, Limoges, FR)</b> "Antibiotic resistance: the necessary balance between expression and acquisition?" <b>Dan Andersson (Uppsala University, SE)</b> "Unstable antibiotic resistance" Two talks selected from abstract
16h45 - 17h15	Coffee break
<b>17h15 – 19h15</b>	<b>Developing new drugs: academic and industrial innovations</b>
	<b>Key note speaker</b> <b>Stewart Cole (Institut Pasteur, Paris FR &amp; EPFL, Lausanne, CH)</b> "Towards a new combination therapy for tuberculosis"

	<b>Round table: Public–private partnership for New Antibiotics</b>
20h00	<b>Conference Diner at Maison des Polytechniciens</b>
<b>WEDNESDAY, MARCH 21</b>	
<b>8h45 – 10h25</b>	<b>Mechanisms of resistance</b> Chair:
	<b>Nathalie Balaban (The Hebrew University; Jerusalem, IL)</b> "Evolution under intermittent antibiotic exposure: interplay between tolerance and resistance"  <b>Jean-Marc Ghigo (Institut Pasteur, Paris, FR)</b> Title to be announced  2 talks selected from abstract
10h25 - 10h55	Coffee break
10h55 – 12h45	<b>Molecular machines and new targets</b> Chair:
	<b>Nora Vazquez-Laslop (University of Illinois, Chicago, US)</b> "Context specific mode of action of ribosomal antibiotics" <b>Michel Arthur (INSERM, Paris, FR)</b> "Non-conventional strategies to fight $\beta$ -lactam-resistant bacteria" <b>Pei Zhou (Duke University, Durham, US)</b> "Novel Antibiotics Targeting Lipid A Biosynthesis in Gram-negative Pathogens" 1 talks selected from abstract
12h45 - 14h00	Lunch at Institut Pasteur
<b>14h00 – 15h15</b>	<b>Poster session – Cafe and dessert</b>
15h15 – 16h30	<b>Finding new antibiotics</b> Chair:
	<b>Key note speaker</b> <b>Kim Lewis (Northeastern University, Boston, US)</b> "The Antibiotic Discovery Challenge" <b>Breakthrough session</b> Poster talks (5') selected from abstracts

16h30 - 17h00	Coffee break
<b>17h00 – 19h</b>	<b>Conventional and non-conventional strategies to fight resistant bacteria</b> Chair:
	<b>Priscile Brodin (Insitut Pasteur, Lille, Fr)</b> Title to be announced <b>Roy Kishony (TECHNION, Haifa, IL)</b> "Predicting antibiotic resistance" <b>David Bikard (Institut Pasteur, Paris, FR)</b> "CRISPR tools to study and fight pathogenic bacteria" 2 talks selected from abstract
<b>19h</b>	<b>Closing remarks</b> <b>Pascale Cossart, LabEx IBEID, Institut Pasteur, France</b> <b>Closing Cocktail</b>