## Programme

### MONDAY, MARCH 19

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tbody>
<tr>
<td>12h00 – 18h00</td>
<td>Registration</td>
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<tr>
<td>15h00 – 15h25</td>
<td><strong>Welcome addresses and opening</strong></td>
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<tr>
<td></td>
<td><strong>Philippe Glaser</strong>, Institut Pasteur, Paris France</td>
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<td><strong>Stewart Cole</strong>, General Director, Institut Pasteur, Paris France</td>
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<td><strong>Philippe Sansonetti</strong>, LabEx IBEID, Institut Pasteur, France</td>
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<tr>
<td>15h25 – 16h00</td>
<td><strong>Introductory lecture</strong></td>
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<td>Chair: Philippe Glser</td>
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<td><strong>Marc Sprenger</strong>, Director, Antimicrobial Resistance Secretariat, WHO</td>
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<td></td>
<td>“The AMR Crisis: a WHO perspective”</td>
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<tr>
<td>16h05 – 16h40</td>
<td><strong>Key note speaker</strong></td>
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<td><strong>Sharon Peacock</strong> (London School of Hygiene and Tropical Medicine, UK)</td>
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<td>“Are bacterial pathogens isolated from animals a common cause of drug-resistant infection in humans?”</td>
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<tr>
<td>16h45 - 17h15</td>
<td><strong>Coffee break</strong></td>
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<tr>
<td>17h15 – 19h15</td>
<td><strong>Antibiotic resistance – a one health context</strong></td>
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<td>Chair: Kathleen Victoir &amp; Arnaud Fontanet</td>
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<td>17h15 – 17h40</td>
<td><strong>Kamini Walia</strong> (Indian Council of Medical Research, India)</td>
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<td>“AMR in India: understanding drivers and opportunities for action”</td>
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<td>17h45 – 17h57</td>
<td><strong>Philip Supply</strong> (Institut Pasteur de Lille, FR)</td>
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<td>“Deep amplicon sequencing for surveillance and diagnostics of drug resistant tuberculosis directly from primary specimens”</td>
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<td>18h00 – 18h25</td>
<td><strong>Frank Møller Aarestrup</strong> (Technical University of Denmark, Lyngby, DK)</td>
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<td>“Global surveillance of antimicrobial resistance”</td>
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<td>Time</td>
<td>Speaker</td>
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<td>18h30 – 18h42</td>
<td>Niyaz Ahmed (ICDDR, Dhaka, BG)</td>
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<td>18h45 – 19H10</td>
<td>Tim Walsh (Cardiff University, Cardiff, UK)</td>
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<td>19h15</td>
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<td><strong>TUESDAY, MARCH 20</strong></td>
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<tr>
<td>8h45 – 10h30</td>
<td><strong>Resistance and virulence</strong></td>
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<tr>
<td>8h45 – 9h10</td>
<td>Sophie Helaine (Imperial College London, UK)</td>
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<tr>
<td>9H15 – 9h27</td>
<td>Lejla Imamovic (Technical University of Denmark, Lyngby,DK)</td>
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<td>9h30 – 9h42</td>
<td>Tim Stinear (University of Melbourne, AU)</td>
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<td>9h45 – 10h10</td>
<td>Nassos Typas (EMBL, Heidelberg, DE)</td>
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<td>10h15 – 10h27</td>
<td>Meriem El Karoui (University of Edinburgh, UK)</td>
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<td>10h30 – 11h00</td>
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<td>11h00 – 12h30</td>
<td><strong>Antibiotics, microbes and models</strong></td>
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<td>11H00 – 11H25</td>
<td>Sebastian Bonhoeffer (ETH Zürick, CH)</td>
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<td>11h30 – 11H42</td>
<td>Alan Mcnally (University of Birmingham, UK)</td>
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<td>11h45 – 12h10</td>
<td>Martin Blaser (NYU School of Medicine, New York, US)</td>
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<td>12h15 – 12h27</td>
<td>Audrey Duval (Université Versailles Saint-Quentin, FR)</td>
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| 12h30 – 15h00 | Lunch  
Poster Session – Cafe and dessert |
| 15h00 – 16h30 | Dissemination of antibiotic resistance  
Chair: Eliora Ron and Didier Mazel |
| 15h00 – 15h25 | Marie-Cécile Ploy (INSERM, Limoges, FR)  
"Antibiotic resistance: the necessary balance between expression and acquisition?"
| 15h30 – 15h42 | Arnaud Gutierrez (U1001, INSERM, Paris, FR)  
"Antibiotic activity, the environment matters. High-throughput killing assay for screening antibiotic lethality"
| 15h45 – 16h10 | Dan Andersson (Uppsala University, SE)  
"Unstable antibiotic resistance"
| 16h15 – 16h27 | Birge Ozel Duygan (University of Lausanne, CH)  
"Microbial degradation of antibiotics: the necessity for micromolar concentration studies"
| 16h30 - 17h00 | Coffee break |
| 17h00 – 19h10 | Developing new drugs: academic and industrial innovations  
Chair: Laura Marin and George Griffin |
| 17h00-17h35 | Key note speaker  
Stewart Cole (Institut Pasteur, Paris FR & EPFL, Lausanne, CH)  
"Towards a new combination therapy for tuberculosis"
| 17h40 – 19h10 | Round table: Public–private partnership for New Antibiotics  
Manica Balasegaram (GARDP, Geneva, CH)  
Laurent Fraisse (SANOFI, Lyon, Fr)  
Marc Lemonnier (Antabio, Toulouse, Fr)  
Laura Marin (JPI AMR, Stockholm, SW)  
Sarah Paulin (WHO, Geneva, CH)  
Kim Lewis (Northeastern University, Boston, US) |
| 20h00 | Conference Diner at Maison des Polytechniciens |

**WEDNESDAY MARCH 21**

| 8h45 – 10h30 | Mechanisms of resistance  
Chair: Anne-Brit KOLSTØ and Frédéric Barras |
| 8h45 – 9h10 | Jean-Marc Ghigo (Institut Pasteur, Paris, FR)  
"Biofilm tolerance to antibiotics“ |
<p>| 9h15 – 9h27 | Magdalena Bielecka (University of Southampton, UK) |</p>
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<th>Time</th>
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<th>Speaker/Institution</th>
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<tr>
<td>9h30 – 9h42</td>
<td>“Developing a novel 3-dimensional cell culture platform for studying antimicrobial resistance”</td>
<td>Frederic Béquet (Bioaster, Paris, FR)</td>
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<td>“Met-SAMoA®: an automated metabolic screening platform for the prediction of new antimicrobials mechanism of action.”</td>
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<td>9h45 – 10h10</td>
<td>“Evolution under intermittent antibiotic exposure: interplay between tolerance and resistance”</td>
<td>Nathalie Balaban (The Hebrew University; Jerusalem, IL)</td>
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<td>10h15 – 10h27</td>
<td>“Peptidomimetics induce azithromycin and rifampicin susceptibility against multidrug resistant Gram-negative pathogens”</td>
<td>Kristin Baker (RUSVM, St. Kitts and UCPH, DK)</td>
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10h30 - 11h00 Coffee break

11h00 – 12h50 Molecular machines and new targets
Chair: Nathalie Balaban and Ivo Boneca

11h00 – 11h25 “Context specific mode of action of ribosomal antibiotics”
Nora Vazquez-Laslop (University of Illinois, Chicago, US)

11h30 – 11h55 “Non-conventional strategies to fight β-lactam-resistant bacteria”
Michel Arthur (INSERM, Paris, FR)

12h30 – 12h50 Breakthrough session - Poster talks (5’)
Maya Nadimpalli (Institut Pasteur, Paris, FR)
Damien Thiry (Liège University, BE)
Ana Elena Perez Cobas (Institut Pasteur, Paris, FR)
Romain Guerillot (University of Melbourne, AU)
Agnes Jousset (Université Paris-Sud, Bicêtre, FR)
Richard Allen (ETH Zürich)
Petra Eva Szili (Hungarian Academy of Sciences, HU)
André Mateus (EMBL, Heidelberg, DE)
Benoit Marteyn (Institut Pasteur, Paris, FR)

12h50 – 15h05 Lunch at Institut Pasteur
Poster session – Cafe and dessert

15h05 – 16h30 Finding new antibiotics
Chair: Ariel Blocker and Thierry Naas

15h05 – 15h40 Key note speaker
Kim Lewis (Northeastern University, Boston, US)
“The Antibiotic Discovery Challenge”
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<td>15h45 – 15h57</td>
<td><strong>Brice Felden (U1230 Inserm, Rennes, FR)</strong></td>
<td>&quot;New antibiotics active on multi-resistant bacteria&quot;</td>
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<td>16h00 – 16h25</td>
<td><strong>Pei Zhou (Duke University, Durham, US)</strong></td>
<td>&quot;Novel Antibiotics Targeting Lipid A Biosynthesis in Gram-negative Pathogens&quot;</td>
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<td>17h00 – 19h00</td>
<td><strong>Conventional and non-conventional strategies to fight resistant bacteria</strong></td>
<td>Chair: Hilde de Reuse and Nassos Typas</td>
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<td>17h00 – 17h25</td>
<td><strong>Priscile Brodin (Institut Pasteur, Lille, Fr)</strong></td>
<td>&quot;Phenotypic screenings for the discovery of first-in-class small-molecules against tuberculosis”</td>
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<td>17h30 – 17h42</td>
<td><strong>Bruno Gonzalez-Zorn (Universidad Complutense de Madrid, SP)</strong></td>
<td>&quot;Reversion of intrinsic antibiotic resistance through aerial interbacterial communication mediated by H2S”</td>
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<td>17h45 – 18h10</td>
<td><strong>David Bikard (Institut Pasteur, Paris, FR)</strong></td>
<td>&quot;CRISPR tools to study and fight pathogenic bacteria”</td>
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<td>18h15 – 18h40</td>
<td><strong>Roy Kishony (TECHNION, Haifa, IL)</strong></td>
<td>&quot;Predicting antibiotic resistance&quot;</td>
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<td>18h45 – 18h57</td>
<td><strong>Laurent Debarbieux (Institut Pasteur, Paris, FR)</strong></td>
<td>&quot;Driving the success of phage therapy with insights into host immune responses &quot;</td>
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<td>19h00</td>
<td><strong>Closing remarks</strong></td>
<td><strong>Pascale Cossart, LabEx IBEID, Institut Pasteur, France</strong></td>
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<td><strong>Closing Cocktail</strong></td>
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