Monday 30th May 2016

**8h45** Introduction
Philippe Sansonetti, Collège de France, Institut Pasteur, France, Brett Finlay, PWIAS, UBC, Canada

**Session 1 : Common features among complex microbial communities**

**09h00** Keynote Lecture: Cooperation and competition in bacterial communities: from model systems to the microbiome
Kevin R Foster, University of Oxford

**09h45** Mucosal immune system and microbiome diversity
Maria Rescigno, IFOM-IEO, Milan

**10h15** Coffee Break

**10h45** Metabolic adaptation to the community lifestyle
Jean-Marc Ghigo, Institut Pasteur, Paris

**11h15** Diurnal oscillation and control of microbiota diversity and metabolic homeostasis
Eran Elinav, Weitzmann Institute, Rehovot

**11h45** The plant microbiome, (plant) nutrition and disease
Cara Haney, University of British Columbia, Vancouver

**12h30** Lunch

**Session 2 : Bacteriophages, bacteriocins, T6SS, antibiotics: do arm race and balance of fear warrant peaceful coexistence ?**

**14h00** Keynote Lecture: What the regulatory network tells us about type VI secretion in Vibrio cholerae
Melanie Blokesch, EPFL, Lausanne

**14h45** Assembly and structure of the Type VI secretion apparatus
Eric Cascales, CNRS, Marseille

**15h15** Antibiotic resistance in Staphylococcal biofilms via intracelonal competition
Daniel Lopez, University of Würzburg

**15h45** Coffee Break

**16h15** Phage-mediated dispersal of biofilms and quorum sensing
Johannes Huebner, Ludwig-Maximilian University, Munich

**16h45** Virulent bacteriophages as modulators of microbial communities
Laurent Debarbieux, Institut Pasteur, Paris

**17h15** Antibiotic-Induced Bacteriocin Expression
Jan-Willem Veening, University of Groningen

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**Session 3 : Metabolic competition, metabolites and autoinducers as drivers of composition, stability and resilience of microbial communities**

**09h00** Keynote Lecture: On the characteristics and utility of bacterial nanotubes
Sigal Ben-Yehuda, Hebrew University, Jerusalem

**09h45** Ai-2 and homeostasis of gut microbiota
Karina B Xavier, Gulbenkian Institute, Oeiras

**10h15** Coffee Break

**10h45** Cell biology of bacterial sensory modules
Emilia Mauriello, CNRS, Marseille

**11h15** From strings of nucleotides to collective behavior: Lessons from Vibrio cholerae
Kai Papenfort, Ludwig-Maximilians-University, Munich

**11h45** The biogeography of infection: how microcolonies spatially organize in vivo
Marvin Whiteley, University of Texas, Austin

**12h30** Lunch

**Session 4 : Barrier effect of the microbiome, mechanisms of microbiome control or stimulation of pathogens at mucosal surfaces**

**14h00** Keynote Lecture: Ecology of the gut microbiome
Joao B Xavier, Memorial Sloan Kettering Cancer Center, New York

**14h45** Battle of the bugs: Interactions between the gut microbiota and attaching and effacing pathogens
Stefanie Vogt, University of British Columbia, Vancouver

**15h15** The pyromaniac inside you: Salmonella metabolism in the host gut
Andreas Baumler, University of California, Davis

**15h45** Coffee Break

**16h15** Microbiota-mediated pathogen resistance
Bärbel Stecher, Max von Pettenkofer-Institute, Munich

**16h45** Salmonella single-cell dynamics in complex host tissues
Dirk Bumann, Biozentrum, University of Basel

**17h15** Central role of Shigella sonnei T6SS in niche occupancy, fitness and invasion
Mark Anderson, Institut Pasteur, Paris

**17h45** Conclusion
Philippe J. Sansonetti