

# Symposium Institut Pasteur 2025

February 3<sup>rd</sup> 2017      Location: *DUCLAUX amphitheatre*

**09h30-09h45: General introduction**, Christian BRÉCHOT  
**09h45-10h: Scientific introduction**, Lluís QUINTANA-MURCI

## SESSION 1: FROM BASIC MECHANISMS OF LIFE TO INFECTIOUS DISEASES

*Chairman: Philippe Sansonetti*

**10h-10h30: Keynote lecture – Microbiology: past, present and future**, Pascale COSSART  
**10h30-10h50: Microbiota, homeostasis and disease**, Gérard EBERL  
**10h50-11h10: Infection and vector-borne diseases**, Philippe BASTIN  
**11h10-11h30: Genomics and precision medicine: the case of immune variation and dysfunction**, Lluís QUINTANA-MURCI

*11h30-11h50: coffee break*

*Chairwoman: Sandrine Etienne-Manneville*

**11h50-12h10: Epigenetics, gene regulation and disease**, François SPITZ  
**12h10-12h30: The global brain: toward a new holistic approach of the brain**, Pierre-Marie LLEDO  
**12h30-12h50: Epidemic analysis and modelling: from understanding to control**: Simon CAUCHEMEZ

## 12h50-14h00: LUNCH

## SESSION 2: INTEGRATIVE BIOLOGY, BIOENGINEERING AND HEALTH

*Chairman: Philippe Bousso*

**14h-14h20: Building and maintaining an organism: development, stem cells, regenerative biology and medicine**, Shahragim TAJBAKHSI  
**14h20-14h40: Emergence of diseases in populations and individuals: the INCEPTION project** Thomas BOURGERON  
**14h40-15h: Artificial intelligence and predictive modelling of the cell**, Christophe ZIMMER  
**15h-15h20: Quantitative Biology – integrating biology and physics for a deeper understanding of complex behaviour in biology**, Sven VAN TEEFFELLEN  
**15h20-15h40: Synthetic Biology: predictive design of biological systems**, David BIKARD  
**15h40-16h: Quantifying evolution through mathematics – hosts, pathogens and their environment**, Marco VIGNUZZI  
**16h-16h20: HIV: what will we need to control such a viral pandemic?**, Michaela MULLER-TRUTWIN

*16h20-16h40: coffee break*

## 16h40-17h30: ROUND TABLES

**Part 1: From fundamental biology to public health – Discussant: Carmen BUCHRIESER**  
Simonetta GRIBALDO, Arnaud ÉCHARD, Jost ENNINGA, Ivo MUELLER, Maria VAN KERKHOVE

**Part 2: Technologies, concepts and methods. Discussant: Jean-Christophe OLIVO-MARIN**  
Olivier GASCUEL, David DIGREGORIO, Pierre BRUHNS, Julia CHAMOT-ROOKE, Elodie BRIENT-LITZLER

**From 17h30: cocktail**