



INTERNATIONAL SCIENTIFIC CONFERENCE

130 Years of Institut Pasteur Celebrating Science

May 15-17, 2019
Institut Pasteur, Centre d'Information Scientifique



WEDNESDAY, MAY 15TH, 2019

Opening Conference desk

3 pm - 4.30 pm

Welcome and Introduction of Keynote Speaker

4.30 pm - 6.40 pm

Chair: Olivier Schwartz, Institut Pasteur, France

4.30 pm | **Welcome address**

Stewart Cole

President, Institut Pasteur, Paris, France

4.50 pm | **Keynote lecture**

Françoise Barré-Sinoussi

2008 Nobel Prize in Medicine, Institut Pasteur, Paris, France

5.30 pm | **Keynote lecture**

Philippe Sansonetti

Molecular Microbial Pathogenesis, Institut Pasteur, Paris, France

1 Keynote lecture: Nutritional control of tissue immunity

6.10 pm | Yasmine Belkaid

National Institute of Allergy and Infectious Diseases, Bethesda, United states

Institut Pasteur Alumni Presentation

6.50 pm - 7 pm

6.50 pm | Claire-Angélique Renard

Institut Pasteur, Paris, France

Welcome Reception

7 pm - 10.00 pm

7 pm | **Opening Cocktail with Pasteur's Music Bands**

THURSDAY, MAY 16TH, 2019

Opening Conference desk

8.15 am - 1 pm

1 A journey from molecules to cells

9 am - 11.15 am

Chair: Jost Enninga, Institut Pasteur, France

2 Keynote lecture: mTOR signaling in growth and metabolism

9 am Michael Hall

Biozentrum, University of Basel, Basel, Switzerland

3 On chemically modified DNA aptamers

9.30 am Marcel Hollenstein

Laboratory for Bioorganic Chemistry of Nucleic Acids, Department of Structural Biology and Chemistry, Institut Pasteur, Paris, France

4 Pedro Alzari

9.50 am *Structural Microbiology, Institut Pasteur, Paris, France*

5 Unraveling the structure/function of Tunneling nanotubes and their roles in neurodegenerative diseases

10.10 am

Chiara Zurzolo

Cell Biology and Infection, UTRAF, Institut Pasteur, Paris, France

6 Characterizing the gut microbiota composition from DNA collisions

10.30 am

Romain Koszul

Genomes and Genetics, Institut Pasteur - CNRS, Paris, France

Coffee break

10.45 am - 11.15 pm

2 Individuals, populations, the power of modelling

11.15 am - 1.5 pm

Chair: David Bikard, Institut Pasteur, France

7 Keynote lecture: Evolutionary genetic dissection of the genus *Homo* and its immune response

11.15 am

Lluís Quintana-Murci

Unit of Human Evolutionary Genetics, Institut Pasteur, France CNRS UMR2000, Paris, France

8 Insights from antigenic and genetic data in characterizing dengue risk

11.45 am

Henrik Salje

Mathematical Modeling of Infectious, Institut Pasteur, Paris, France

9 Deciding in complex environments: a small insect perspective

12.5 pm

Jean-Baptiste Masson

Neuroscience, statistics, Institut Pasteur, Paris, France

- 10 **The role of bacterial capsules in evolutionary adaptation**
 12.25 pm [Olaya Rendueles-Garcia](#)
Microbial Evolutionary Genomics, Institut Pasteur, Paris, France
- 11 **How the physics of enhancers shapes development**
 12.45 pm [Thomas Gregor](#)
Physics of Biology Function, Institut Pasteur, Paris, France

Lunch & Poster Session 1

1.5 pm - 3.30 pm

3 An integrative vision of health and disease

3.30 pm - 6.15 pm

Chair: Pauline Spéder, Institut Pasteur, France

- 12 **Keynote lecture: Molecular mechanisms of hearing: insight from deafness genes and prospects for cures**
 3.30 pm [Christine Petit](#)
Genetics and Physiology of Hearing, Institut Pasteur, Paris, France
- 13 **Humanized Mice in Translational Biomedical Research**
 4 pm [James Di Santo](#)
Innate Immunity Unit, Inserm U1223, Institut Pasteur, Paris, France
- 14 **15 years after the discovery of the genes for autism: where are we now?**
 4.20 pm [Thomas Bourgeron](#)
Human Genetics and Cognitive Functions, Institut Pasteur, Paris, France
- 15 **Hidradenitis suppurativa: From bedside to bench, and back**
 4.40 pm [Caroline Demangel](#)
Immunology Dept, Immunobiology of Infection Unit, Institut Pasteur, Paris, France
- 16 **Development and functions of tissue resident macrophages**
 5 pm [Elisa Perdiguer Gomez](#)
Macrophages and Endothelial Cells, Institut Pasteur, Paris, France

Chair: Moshe Yaniv, Institut Pasteur, Paris, France

- 17 **Keynote lecture: The Circadian Rhythm Story: Past, Present and Future**
 5.20 pm [Michael Rosbash](#)
2017 Nobel Prize in Medicine, Brandeis University Howard Hughes Medical Institute (HHMI), Waltham, United States
- 18 **Keynote lecture: The neuroscience: a scientific priority for the Pasteur Institute: from Louis Pasteur up to the 21st century**
 5.50 pm [Jean-Pierre Changeux](#)
Institut Pasteur, Paris, France

Wine and cheese reception

6.30 pm - 8.30 pm

FRIDAY, MAY 17TH, 2019

Opening Conference desk

8.15 am - 1 pm

4 Microbes and Hosts

9 am - 12.40 pm

Chair: Carmen Buchrieser, Institut Pasteur, France

19 Keynote lecture: An Immunologist Approach to the HIV Problem

9 am [Michel Nussenzweig](#)

The Rockefeller University, New York, United States

20 Differential MHC-E dependent NK cell activity in response to SIVagm and SIVmac infections

9.30 am

[Michaela Mueller-Trutwin](#)

HIV, Inflammation and Persistence, Institut Pasteur, Paris, France

21 Integrative biology of mosquito-arbovirus interactions

9.50 am

[Louis Lambrechts](#)

Insect-Virus Interactions Unit, Institut Pasteur, Paris, France

22 Dynamics of the *Cryptococcus* transcriptome

10.10 am

[Guilhem Janbon](#)

Mycology, RNA Biology of Fungal Pathogens, Institut Pasteur, Paris, France

Coffee break

10.30 am - 11.00 pm

23 From pure culture to multi-species communities: contributions of the biofilm concept to bacteriology

11 am

[Jean-Marc Ghigo](#)

Genetics and Biofilms, Institut Pasteur, Paris, France

24 Legionella pneumophila manipulates the host cell by mimicking eukaryotic proteins

11.20 am

[Monica Rolando](#)

Biology of Intracellular Bacteria, Institut Pasteur, Paris, France

25 *P. falciparum* Antimalarial drugs resistance: Challenges and perspectives

11.40 am

[Didier Ménard](#)

Head of the Malaria genetic and resistance group, Institut Pasteur, Paris, France

26 The high-resolution supramolecular structure of the bacterial stressosome revealed by cryo-EM unveils its mechanism of activation

12 pm

[Allison Williams](#)

Biology and Genetics of Bacterial Cell Wall, Institut Pasteur, Paris, France

27 Bacterial aggregates of *Neisseria meningitidis* flow inside blood vessels like a honey-like viscous liquid

12.20 pm

[Daria Bonazzi](#)

Pathogenesis of vascular infections, Institut Pasteur, Paris, France

5 Translating discoveries from bench to patients

3.30 pm - 5.30 pm

Chair: Marie-Lise Gougeon, Institut Pasteur, France

- 28** | **Keynote lecture: Chromatin roles for SUMO in innate immunity and cell plasticity**
3.30 pm | [Anne Dejean](#)
Nuclear Organization and Oncogenesis, Institut Pasteur, Paris, France
- 29** | **Muscle stem cells and muscle regeneration in pathological conditions**
4 pm | [Fabrice Chrétien](#)
Experimental neuropathology, Institut Pasteur, Paris, France
- 30** | **Applications of next-generation sequencing techniques for pathogen genomics surveillance and outbreak response**
4.20 pm | [Etienne Simon-Loriere](#)
Evolutionary Genomics of RNA viruses, Institut Pasteur, Paris, France
- 31** | **Double strand break repair and antigenic variation in African trypanosomes**
4.40 pm | [Lucy Glover](#)
Trypanosome Molecular Biology, Institut Pasteur, Paris, France
- 32** | **Closing lecture: *Listeria monocytogenes*, from cellular microbiology to microbiology**
5 pm | [Pascale Cossart](#)
Cellular Biology and Infection Department, Institut Pasteur, Paris, France

