

INCEPTION 2023 meeting

Integrative Biology, Social and Data Sciences
to understand the Emergence of Diseases
in Populations and in Individuals

November 28, 2023
8:45am to 6:00pm

Centre François Jacob Auditorium, Institut Pasteur, Paris

Keynote speakers

Hugues Aschard, PhD, Head of Statistical Genetics Unit, Institut Pasteur, Paris - Assistant Professor, Harvard University School of Public Health

Julien Barc, PhD, CRCN INSERM, Genetics and epigenetics in inherited cardiac arrhythmia Unit, Université de Nantes

Aurélie Cobat, MD, PhD, Assistant Professor CRCN INSERM, Laboratory of Human Genetics of Infectious Diseases, Imagine Institute, Paris

Informations

[INCEPTION Website](#)

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PROGRAM

8:45 - 9:00 **Welcome**

9:00 - 9:10 **Christophe D'Enfert**, (Institut Pasteur Scientific Director)
Opening

9:10 - 9:20 **Thomas Bourgeron** (Institut Pasteur/Université Paris Cité, INCEPTION coordinator),
Introduction

1st Session - Chair: Rayan Chikhi (Institut Pasteur)

9:20 - 10:00 **Keynote speaker: Hugues Aschard** (Institut Pasteur)
The COVID-19 Host Genetics Initiative

10:00 - 10:20 **Maria Lopopolo** (Institut Pasteur, D2I call 2020)
Exploring the microbial make up and infectious diseases in pre-Columbian American populations

10:20 - 10:50 **Thomas Bourgeron** (Institut Pasteur)
Phenotypic effects of genetic variants associated with autism

10:50 - 11:10 **Break**

2nd Session - Chair: Hugues Aschard (Institut Pasteur)

11:10 - 11:50 **Keynote Speaker: Julien Berc** (Université de Nantes)
Identification and interpretation of non-coding variants in inherited cardiac diseases

11:50 - 12:20 **Laura Cantini** (Institut Pasteur, G5 call 2021)
Single-cell multi-omics integration to unlock cell identities

12:20 - 12:40 **Cantin Ortiz** (Institut Pasteur, D2I call 2020)
Neuronal discrimination of visual environments differentially depends on behavioural context in the hippocampus and neocortex

12:40 - 13:00 **Viktoriia Gross** (Institut Pasteur, D2I call 2020)
An integrative approach to characterize the two sides of enzyme-mediated antibiotic escape: resistance and tolerance

13:00 - 14:30 **LUNCH & POSTER SESSION (ATRIUM FRANÇOIS JACOB)**

3rd Session - Chair: Guillaume Lachenal (MediaLab, Sciences Po)

14:30 - 15:10 **Keynote speaker: Aurélie Cobat** (Institut Imagine)
Inborn errors of type I IFN immunity in patients with life-threatening COVID-19 pneumonia

15:10 - 15:25 **Simon Galmiche** (Institut Pasteur, D2I call 2021)
Interdisciplinary analysis of the "ComCor" study on sociodemographic factors and behaviours associated with the SARS-CoV-2 infection

15:25 - 15:40 **Andrew Holtz** (Institut Pasteur, D2I call 2020)
Integrating full and partial genome sequences to decipher the global spread of canine rabies virus

15:40 - 16:10 **Mathieu Farina** (Fondation La Main à la Pâte LAMAP)
INCEPTION-LAMAP - Eduquer à la santé en développant la pensée critique

16:10 - 16:20 **Break**

4th Session – Chair: Eduardo Rocha (Institut Pasteur)

16:20 - 16:50 **Sebastian Duchene-Garzon** (Institut Pasteur, G5 call 2023)
Quantifying information content of genomic sequence data for phylodynamic inference

16:50 - 17:20 **Théo Maire** (Institut Pasteur, P2I call 2021)
Merging quantitative imaging and statistical modeling to quantify the impact of dengue virus infection on mosquito blood-feeding behavior

17:20 - 17:50 **Sigolène Meilhac** (Institut Pasteur)
*Identification of *Greb1l* as a genetic determinant of criss-cross heart in mice*

17:50 - 18:00 **Thomas Bourgeron** (Institut Pasteur/Université Paris Cité)
Conclusions