

Scientific Program

Scientific committee

Carmen Buchrieser, Pascale Cossart, Philippe Sansonetti, Artur Scherf, Alexandre Tarakhovsky, Moshe Yaniv, Jonathan Weitzman and Matthew Weitzman.

Tuesday, June 13, 2017

14:00-18:30 - Session I: Targetting Signalling

Chair: Pascale Cossart

14:00-14:15 Opening remarks

14:15-14:45 Jorge Galan, Yale University, United States

Salmonella Typhimurium and intestinal inflammation: a pathogen centric view

14:45-15:05 Pierre Lapaquette, Institut Pasteur, France

Shigella entry unveils a calcium/calpain-dependent mechanism for inhibiting sumoylation

15:05-15:25 Chinmoy Saha, Erasmus MC, The Netherlands

Cas9 of pathogenic bacteria is a virulence factor that targets human DNA

15:25-15:55 Anura Rambukkana, University of Edinburgh, United Kingdom

The role of bacterial-induced host metabolic signalling in epigenetic reprogramming

16:00-16:40 Coffee break

16:40-17:10 Harmit Malik, Fred Hutchinson Cancer Research Center, United States

Host genomes diversify by stealing enzymatic activities of pathogens

17:10-17:40 Mohamed-Ali Hakimi, Institut Albert Bonniot, France

Host-parasite coevolutionary arms: Toxoplasma effectors co-opt the host cell (epi)genetic program

17:40-18:00 Shailja Singh, Jawaharlal Nehru University, India

Hijacking Signaling network of host erythrocytes – an invasion strategy for P. falciparum merozoites

18:00-18:30 Jonathan B. Weitzman, University Paris-Diderot, France

PINning down the parasite: epigenetic mechanisms in Theileria-host interactions

18:30-20:30 Cocktail reception

Wednesday, June 14, 2017

9:00-12:30 - Session II: Targetting the transcription machinery and microRNA networks

Chair: Carla Saleh

9:00-9:30 Katherine A. Jones, The Salk Institute for Biological Studies, United States
A Novel Complex and Epigenetic Inhibitor Control HIV-1 Tat Protein Stability

9:30-9:50 Lionel Navarro, IBENS, France
Mechanisms of bacterial-triggered suppression of Argonaute activity and their relevance in pathogenicity

9:50-10:10 Didier Filopon, IBENS-CNRS, France
Human Ago2 contributes to Shigella-induced vacuole rupture and inflammation

10:10-10:50 Coffee break

10:50-11:20 Ana Eulalio, University of Würzburg, Germany
Systems biology approaches identify host microRNAs controlling infection by bacterial pathogens

11:20-11:50 Jörg Vogel, University of Würzburg, Germany
Resolving host-pathogen interactions with RNA-seq

11:50-12:20 Sandra Duharcourt, Institut Jacques Monod, Paris, France
Mechanisms and epigenetic control of programmed DNA elimination in Paramecium

12:20-14:00 Lunch and Poster viewing

14:00-18:30 - Session III: Epigenetics and genome conformation and function

Chair:

14:00-14:30 Artur Scherf, Institut Pasteur, France
Multiple epigenetic layers determine malaria parasite-interactions with the human and mosquito host

14:30-14:50 Sudhakar Jha, Cancer Science Institute of Singapore, Singapore
TIP60 represses telomerase expression: A HAT with many tricks

14:50-15:10 Sebastian Baumgarten, Institut Pasteur, France
The Plasmodium epitranscriptome: deciphering the role of RNA modifications in human malaria parasite virulence

15:10-15:30 Avlokita Tiwari, University of Turku, Finland
Identification of novel bacterial ADP-ribosylating bacterial toxins

15:30-16:00 Theresa Alenghat, Cincinnati Children's Hospital Medical Center, United States
An essential role for epithelial cell histone deacetylase 3 in intestinal host defense

16:00-16:40 Coffee break

16:40-17:10 Job Dekker, University of Massachusetts Medical School, United States
Structure and dynamics of the 3D genome

17:10-17:30 Marina Lusic, Heidelberg University Clinic, Germany
HIV-1 explores genomic organization to integrate and persist

17:30-17:50 Sarantis Chalmydas, Active Motif Europe S.A, Belgium
Active Motif's capabilities: Advances in Chromatin, DNA methylation and miRNA's studies

18:00-21:00 [Poster viewing & Wine and Cheese](#)

Thursday, June 15, 2017

9:00-12:30 - Session IV: Histone modifications and mimicry

Chair: Christian Muchardt

9:00-9:30 Alexandre Tarakhovskiy, The Rockefeller University, United States
Histone mimicry by pathogenic viruses

9:30-10:00 Carmen Buchrieser, Institut Pasteur, France
Legionella pneumophila secretes effector proteins to induce epigenetic changes during infection

10:00-10:30 Melanie Hamon, Institut Pasteur, France
Epigenomic modifications induced during bacteria-host interactions

10:30-11:00 Coffee break

11:00-11:20 Diego Mourão-Sa, The Rockefeller University, United States
Yellow Fever Virus Core protein resembles histone H4 and modulates antiviral responses

11:20-11:40 Joby Cole, University of Sheffield, United Kingdom
Changes in the epigenetic landscape upon infection of primary macrophages with Streptococcus pneumoniae

11:40-12:00 Joyoti Basu, Bose Institute, India
Dynamic genome-wide changes of histone H3K4Me3 methylation in macrophages, are associated with host immune subversion mechanisms in Mycobacterium tuberculosis

12:00-12:20 Daphne Avgousti, The Children's Hospital of Philadelphia, United States
Time-resolved global proteomics during Herpes Simplex Virus (HSV-1) infection reveals novel role for histone variant macroH2A1

12:20-15:00 Lunch and Poster viewing

15:00-18:00 - Session V: Targetting signalling II

Chair: Moshe Yaniv

15:00-15:30 Matthew Weitzman, The Children's Hospital of Philadelphia Research Institute, United States
Dynamic interactions on virus and host DNA genomes during infection

15:30-15:50 Jeffrey Johnson, University of California San Francisco, United States
Global proteomics of HIV-1 infection uncovers mechanisms of host cellular pathway rewiring

15:50-16:10 Nicolas Wolff, Institut Pasteur, France
A single mutation in a rabies virus drastically affects the way it hijacks the cell signalling pathways

16:10-16:40 Coffee break

16:40-17:10 Luísa Figueiredo, Instituto de Medicina Molecular, Portugal
Metabolic remodeling during a trypanosome infection

17:10-17:30 David Bikard, Institut Pasteur, France
A Eukaryotic-like Serine/Threonine Kinase Protects Staphylococci against Phages

19:00 Visit of the Orsay Museum (optional)

20:30 Conference dinner at the Orsay Museum (optional)

Friday, June 16, 2017

9:00-12:30 - Session VI: Modulating the immune response

Chair: Gérard Eberl

9:00-9:30 Mihai Netea, Radboud University Medical Center, The Netherlands

Trained immunity: a memory for innate host defense

9:30-10:00 Brice Sperandio, Institut Pasteur, France

Genetic and epigenetic regulation of antimicrobial peptides upon bacterial challenge

10:00-10:20 Clementine Le Roux, Max Planck Institute for Plant Breeding Research, Germany

Plant immune receptor decoy: Pathogens in their own trap

10:20-10:50 Coffee break

10:50-11:20 Lluís Quintana-Murci, Institut Pasteur, France

The genetic, non-genetic and evolutionary factors driving immune response variation to microbial challenges

11:20-11:40 Caroline Demangel, Institut Pasteur, France

Host Immunomodulation by Mycobacterium ulcerans

11:40-12:00 Roi Avraham, Weizmann Institute, Israel

Host and pathogen simultaneous single-cell transcriptome analysis reveals interacting sub-populations during infection

12:00-14:00 Lunch and Poster viewing

14:00-18:30 - Session VII: Regulation of latency and cell identity

Chair: Simon Wain-Hobson

14:00-14:30 Danny Reinberg, HHMI and NYU Langone School of Medicine, United States

Epigenetics: One Genome, Multiple Phenotypes

14:30-15:00 Claire Rougeulle, CNRS / Université Paris Diderot, France

Delving into the noncoding network orchestrating X chromosome inactivation in mammals

15:00-15:30 Melanie Ott, University of California San Francisco, United States

Epigenetic Regulation of HIV Transcription

15:30-15:50 Vincent Foray, Centre de Recherche de Biologie cellulaire de Montpellier, France

Wolbachia in filarial nematodes: a passenger holding the steering wheel in oogenesis through control of germline stem cell fate and differentiation

15:50-16:20 Coffee break

16:20-16:50 Paul M. Lieberman, The Wistar Institute, United States

Chromatin Control of Gammaherpesvirus Latency

16:50-17:10 Thomas Günther, Heirich-Pette-Institute, Germany

The role of polycomb repressive complexes during viral latency establishment: A comparative study

17:10-17:30 Matthew Reeves, UCL, United Kingdom

Haematopoietic cell kinase mediates crosstalk between cellular signalling pathways that drive cytomegalovirus reactivation

17:30-18:00 Philippe Sansonetti, Institut Pasteur, France

Concluding remarks