AC41 HIV Host-virus interactions

Work In Progress (WIP) meeting
2nd of May 2024

Amphithéâtre Duclaux - Institut Pasteur, Paris

(Program in progress)

3h50 OPENING

10h-10h10 Introduction
Michaela MÜLLER-TRUTWIN (Chair of the AC41)

Session 1 – Keynote lecture 1

Chair:

10h10-10h40 The Geneva patient and lessons for HIV cure and remission
Asier SAEZ CIRON (Viric, Institut Pasteur, Paris, France) (tbc)

Session 2 – Regulatory mechanisms of HIV replication and latency

Chairs :

10h40-10h55 HIV-1 : Nuclear import, integration and condensed phases
Marc RUFF (IGBMC-CERBM, UMR 7104, Illkirch, France)

10h55-11h10 Insights into the mechanism of HIV inhibition by Trim 69
Charlotte VADON (CIRI, Université de Lyon, Inserm, Lyon, France)

11h10-11h40 BREAK

11h40-11h55 Mapping the Nuclear Landscape of HIV-1: In Vivo detection of HIV-1 Membraneless Organelles, Capsid Diversity, and Reverse Transcription Licensing
Selen AY (Institut Pasteur, Université Paris Cité, Paris, France)

11h55- 12h10 HIV-1 promoter bursting in T-lymphocytes and its implication in latency regulation
Alexia DAMOUR (MFP, CNRS, University of Bordeaux, Bordeaux, France)

12h10- 12h25 HIV-1 Gag targeting to the plasma membrane reorganizes sphingomyelin-rich and cholesterol rich lipid domains
Nario TOMISHIGE (CNRS, Faculté de Pharmacie, Université de Strasbourg, Illkirch, France)

12h25- 12h40 M6A methylation induces structural rearrangements in HIV-1 5’UTR RNA in vitro.
Valerii MARTYNOV (Cibles, Université Paris Cité, CNRS, France)

12h40-12h50 Flash Talks
Juliette ALLAIN (Paris-Saclay University), Lisa WELKER (Strasbourg University), Mathieu LONG (Strasbourg University), Sébastien MARIE (Paris Cité University)

12h50 – 15h15 Lunch + Posters at the Modules
Session 3 – HIV and myeloid cells

**Chairs:**

15h55-16h10  
**Tuberculosis-induced glycolysis favors tunneling nanotube formation, promoting HIV-1 dissemination in macrophages**  
*Natacha FAIVRE* (IPBS, CNRS, Université Toulouse, Toulouse, France and Buenos Aires)

16h10-16h25  
**A lysosomal glutamin transporter involved in HIV-1 production by macrophages**  
*Floriane HERIT* (INSERM, CNRS, Université de Paris, Institut Cochin, France)

16h25-16h40  
**The antiviral immune function of the alarmin S100A9 is governed by ion-chelation activity in human myeloid cells**  
*Fabien BLANCHET* (CNRS, University of Montpellier, Montpellier, France)

16h40-17h10  
**BREAK**

Session 4 – Mucosa and inflammation

**Chairs:**

17h10-17h25  
**CX3CR1+ Vdelta1 T Cells are Clonally Expanded and Driven by CMV, Microbiota and HIV-1 in the Gut on ART**  
*Nived COLLERCANDY* (INSERM, CNRS, Université Toulouse III, Toulouse, France)

17h25-17h40  
**Investigation of the gingival tissue as a potential reservoir for human immunodeficiency virus (HIV-1)**  
*Diana RAMOS PEÑA* (CNRS, Université de Strasbourg, Illkirch, France)

Session 5 – Keynote lecture 2

**Chair:**

17h40-18h10  
**Resistance of HIV to anti-retroviral drugs**  
*Charlotte CHARPENTIER* (AP-HP, Hôpital Bichat, INSERM?) (tbc)

18h10  
**Concluding remarks**  
*Yazdan YAZDANPANAH, Director of ANRS | Emerging infectious disease*

18h15  
Wine and cheese – at the Modules