

## AC41 HIV Host-virus interactions

Work In Progress (WIP) meeting  
2<sup>nd</sup> of May 2024

Amphithéâtre Duclaux - Institut Pasteur, Paris

(Program in progress)

**9h50** OPENING

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

### Session 1 – Keynote lecture 1

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*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

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*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

15h15-15h55 **Dominique Dormont PhD awards (ANRS | MIE and SFV)**

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15h15-15h25 **Presentation of the awards by Françoise BARRÉ-SINOUSSE (tbc)**

15h25-15h40 **Presentation of awardee 1**

15h40-15h55 **Presentation of awardee 2**

### Session 3 – HIV and myeloid cells

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*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

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*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

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*Chair:*

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

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

**18h15** Wine and cheese – at the Modules

#### **Scientific and Organizing Committee**

**AC41 Office:** Michaela Müller-Trutwin, Victor Appay, Anne-Sophie Beignon and Stéphane Emiliani

**ANRS | MIE Basic Research Department:** Cécile Peltekian, Guia Carrara and Dahlia Chebbah

**Institut Pasteur:** Nathalie Alazard