

AC41 Host-Virus interactions Annual international symposium

HIV Reservoirs in all its forms:
Detection, Characterisation and Targeting

14th and 15th November 2022
Institut Pasteur, Amphithéâtre Duclaux, Paris

Program

November 14th Day 1

12:30pm OPENING

12:45pm **Welcome**
Michaela MÜLLER-TRUTWIN (Institut Pasteur, France)

Session 1 - Organism Scale: detection and quantification of HIV reservoirs in infected individuals and pre-clinical studies

*Chairs: Jean-Pierre ROUTY (McGill University Health Centre, Canada)
and Constance DELAUGERRE (Saint Louis Hospital, France)*

1:00pm **Keynote: "Measuring viral reservoirs in humans, methods and insights"**
Nicolas CHOMONT (Université de Montréal, Canada)

1:35pm **"Data on HIV-1 reservoirs in the ANRS-MIE cohorts"**
Véronique AVETTAND FENOEL (Institut Cochin, France)

2:00pm **"Chasing an HIV cure: the intersection of biological sex, the latent reservoir and latency disruption"**
Nancie ARCHIN (North Carolina, USA)

2:25pm **"How to define the viral reservoir important to fuel viral rebound upon treatment interruption"**
Linos VANDEKERCKHOVE (Ghent University, Belgium)

2:50pm - 3:20pm COFFEE BREAK

3:20pm **"Specific characteristics of HIV-2 reservoir"**
Charlotte CHARPENTIER (Université Paris Diderot, Hôpital Bichat, France)

3:45pm **Keynote: "HBV reservoirs: detection, characterisation and targeting"**
Ulrike PROTZER (German Center for Infection Research (DZIF), Germany)

4:20pm – 4:50pm **2 short oral communications**

"DUSQ (DNA Ultra-Sensitive Quantification): a new technology for quantifying the HIV unintegrated linear DNA for pre-integrative latency"
Jacques DUTRIEUX (Institut Cochin, France)

"First live track detection of HIV DNA in humanized model by single cell imaging"
Jean-Sebastien DIANA (Institut Pasteur, France)

4:50pm – 6:50pm **Poster session**

Wine and cheese alongside the poster session

Session 2 - Within the cell: which cells? And which molecular mechanisms of persistence?

*Chairs: Angela CIUFFI (University of Lausanne, Switzerland)
and Florence MARGOTTIN-GOGUET (Institut Cochin, France)*

- 9:00am **Keynote: "Selective clonal persistence in the HTLV-1 and HIV-1 reservoirs"**
Charles BANGHAM (*Imperial College London, UK*)
- 9:35am **"HIV reservoir in human mucosal macrophages"**
Morgane BOMSEL (*Institut Cochin/Inserm/CNRS/Université Paris Descartes, France*)
- 10:00am **"Single-cell multi-omics identifies HIV persistence in cytotoxic CD4+ T cells"**
Ya-Chi Ho (*Yale University, USA*)

10:25am - 10:55am COFFEE BREAK

- 10:55am **"Manipulating HIV transcription"**
Vicente PLANELLES (*University of Utah School of Medicine, USA*)
- 11:20am **"Terminating HIV transcription in latent cells"**
Stéphane EMILIANI (*Institut Cochin/Inserm/CNRS/Université Paris Descartes, France*)
- 11:45am **"HIV-1 genome regulation and interaction with the host 3D genome"**
Monsef BENKIRANE (*CNRS-Université de Montpellier, France*)

12:10pm - 12:40pm 2 short oral communications:

- "Tuberculosis-associated microenvironment modulates the metabolism of macrophages rendering them more susceptible to HIV-1 infection"**
Zoï VAHLAS (*Université de Toulouse, France*)
- "Role of the pol gene enhancer in HIV-1 transcription and replication in myeloid infected cells"**
Antoine DUTILLEUL (*Université Libre de Bruxelles, Belgium*)

12:40pm - 2:15pm LUNCH BREAK

Session 3 - Targeting the reservoir - therapeutic strategies

*Chairs: Jean-Philippe SPANO (Pitié Salpêtrière Hospital, France)
and Lydie TRAUTMANN (Oregon Health & Science University, USA)*

- 2:15pm **"Auto-antiviral vaccination with TLR-7 agonist as a potential strategy to achieve functional cure"**
Cristian APETREI (*University of Pittsburgh, USA*)
- 2:40pm - 3:10pm **2 short oral communications:**
- "Defining the transcriptome of HIV-1 to identify novel conserved T-cell antigens"**
Lisa BERTRAND (*Université Paris-Saclay, France*)
- "Nonhuman primate models to explore the role of HLA-E mediated responses in viral reservoirs"**
Caroline PETITDEMANGE (*Institut Pasteur, France*)
- 3:10pm **"The RIO trial - and the hunt for the vaccinal effect"**
John FRATER (*University of Oxford, UK*)
- 3:35pm **"HIV-1 bNAbs from natural and post-treatment controllers"**
Hugo MOUQUET (*Institut Pasteur, France*)
- 4:00pm **Exploiting the metabolism**
Asier SAEZ-CIRION (*Institut Pasteur, France*)

4:25pm – 4:35pm **Concluding remarks**
Roger LEGRAND (*IDMIT, France*)
and Monsef BENKIRANE (*Université de Montpellier, France*)

Scientific and Organising Committee

AC41: Michaela Müller-Trutwin, Victor Appay, Anne-Sophie Beignon, David Durantel, Stéphane Emiliani, Florence Margottin-Goguet

ANRS | MIE Basic Research Department: Cécile Peltekian, Guia Carrara, Amandine Verga-Gérard

Institut Pasteur: Marie Philippe

Please bring your identity card, passport with you as it will be required at the welcome desk.

A locker room will be available during the event where you might let your coats or luggages.



Bienvenue au Centre de Conférences ***Welcome to the Conference Center***

