

ANRS - MIE
Basic Research Department
AC41 Host-Virus interactions

Work In Progress (WIP) meeting
preliminary program

March 22nd and 23rd 2022
VISIOCONFERENCE

MARCH 22nd 14h-17h30

13h45

OPENING

14h00-14h05

Introduction
Michaela MÜLLER-TRUTWIN

14h05-14h30

Intervention by Yazdan Yazdanpanah, Director of ANRS | Maladies Infectieuses Emergentes

14h30-15h15

**Dominique Dormont PhD awards (ANRS | MIE and SFV),
Presentation by Anne-Sophie Beignon
Francoise Barré-Sinoussi awarding the prizes & intervention of the two laureates**

Session 1 - Viral replication, Integration & Latency

Chairs: Stéphane EMILIANI and TBD

15h15-15h30

Structural and functional studies of HIV-1 early steps of replication: nuclear import and viral DNA integration
Julien BATISSE (IGBMC, Illkirch)

15h30-15h45

INTERfaces Project: Regulation of HIV-1 integration by chromatin structure and associated factors
Vincent PARISSI (MFP, UMR 5234, Bordeaux)

15h45-16h00

Role of the Cleavage and PolyAdenylation complex in HIV-1 transcriptional latency
Melissa AIT-SAID (Institut Cochin, Paris)

16h00-16h30

BREAK

Session 2 - Antiviral, Cellular factors & Drug Discovery

Chairs: Florence MARGOTTIN-GOGUET and TBD

16h30-16h45

Molecular conflict between TASOR and divergent lentiviral proteins along evolution
Pauline LARROUS (Institut Cochin, Paris)

16h45-17h00

ATG5 drives an LC3-associated pathway to counter BST2/Tetherin antiviral functions
Delphine JUDITH (Institut Cochin, Paris)

17h00-17h15

Potential antiviral effects of pantethine against SARS-CoV-2
Mireille LAFORGE (NeuroDiderot, INSERM U1141, Paris)

17h15-17h30

CGRP, and its analogue SAX, inhibit Langerhans cells (LCs)-mediated infection with both HIV-1 and HSV-1/2: role of STAT4 and langerin
Jammy Mariotton (Institut Cochin, Paris)

13h45**OPENING OF CONFERENCE CONNECTION****Session 3 - Viral dissemination & Reservoirs**

*Chairs: TBD***14h00-14h15**

Anti-inflammatory profile favors productive HIV-1 infection of macrophages through a heterotypic fusion with infected T cells regulated by a CD81/RhoA/actomyosin axis
Rémi MASCARAU (IPBS, Toulouse)

14h15-14h30

Cell-cell fusion with infected T cells renders macrophages permissive for non-macrophage-tropic HIV-1 isolates
Vincent CANTALOUBE-FERRIEU (Infinity, Toulouse)

14h30-14h45

Identification of CX3CR1+ mononuclear phagocyte subsets involved in HIV-1 and SIV colorectal transmission
Mariangela CAVARELLI (IMVA-HB/IDMIT, Fontenay aux Roses)

14h45-15h00

Tuberculosis-associated microenvironment modulates the metabolism of macrophages rendering them more susceptible to HIV-1 infection
Zoï VALHAS (IPBS, Toulouse)

15h00-15h15

Bronchial epithelia from adult and children: SARS-CoV-2 spread via syncytia formation and type-III interferon restriction.
Marie-Line ANDREOLA (MFP, UMR 5234, Bordeaux)

15h15-15h45**BREAK****Session 4 - Immune response & vaccines**

*Chairs: Stéphane PAUL and Victor APPAY***15h45-16h00**

HIV-1 tat INDUCES HLA-DR downregulation in B cells
Anna SHMAKOVA (Institut Gustave Roussy, Villejuif)

16h00-16h15

Innate cell markers that predict anti-HIV neutralizing antibody titers in vaccinated macaques
Matthieu VAN TILBEURGH (IMVA-HB/IDMIT, Fontenay aux Roses)

16h15-16h30

CD40-targeted vaccine increases magnitude of HIV-Env specific responses
Romain MARLIN (IMVA-HB/IDMIT, Fontenay aux Roses)

16h30-16h45

Evidence of rejuvenated HIV-1 specific CD8+ T cells after 25 years of treated infection
Eoghann WHITE (ImmunoConcEpT, Bordeaux)

16:45-17h00

Modulation of PD-L1 expression on myeloid cells by the IFN / JAK-STAT axis in chronically infected HIV patients
Léo PLAÇAIS (IMVA-HB/IDMIT, Fontenay aux Roses)

17h00-17h15

The gp41 epitope of a protective mucosal IgA issued from Highly Exposed Sero-Negatives individuals binds to HIV-1 envelope and displays antiviral
Ines SAHNOUNE (Institut Cochin, Paris)

Scientific and Organizing Committee

AC41 Office: Victor Appay, Anne-Sophie Beignon, Florence Margottin-Goguet, David Durantel, Michaela Müller-Trutwin
ANRS | MIE Basic Research Department: Cécile Peltekian, Amandine Verga-Gérard