

• Monday 21 September

- 17:00 - 18:00 Registration and poster setup
- 18:20 - 18:30 Welcome Address  
*Bryan Vickery, BioMed Central*
- 18:30 - 20:00 Poster session 1 & Welcome Reception

• Tuesday 22 September

- 08:00 Registration
- 08:30 Opening Address  
Retroviral Restriction Factors: New Mechanisms of Innate Immunity  
*Stephen Goff, Howard Hughes Medical Institute, Columbia University, New York, USA*
- 09:00 Keynote Address  
Endogenous retroviruses: from infectious elements to bona fide genes with a physiological role  
*Thierry Heidmann, Institut Gustave-Roussy, Villejuif, France*
- 09:20 Keynote Address  
Approach and Progress in Attempts to Develop A Preventive Vaccine Against HIV  
*Robert C. Gallo, Institute of Human Virology, University Maryland School of Medicine, Maryland, USA*

• Session 1: Evolution and the beneficial roles of retroelements  
Chairman: *Malik Harmit, Fred Hutchinson Research Center, Seattle, USA*

- 09:40 Silencing of retroviruses by small RNAs in *Drosophila*  
*Alain Bucheton, Institut de Genetique Humaine, Montpellier, France*
- 10:00 Emergence of novel retroviruses  
*Walid Heneine, Centers for Disease Control and Prevention, Atlanta, Georgia, USA*
- 10:20 Host genome influences on susceptibility to HIV-  
*Amalio Telenti, Universite de Lausanne, Lausanne, Switzerland*

• Special Talk

- 10:40 Viruses: a vast reservoir of genetic diversity and driver of global processes  
*Curtis Suttle, University of British Columbia, Vancouver, Canada*
- 11:00 Coffee Break

• Selected Talks

- 11:30 Aris Katzourakis: Paleovirology reveals the macroevolution of complex retroviruses
- 11:40 Irina R. Arkhipova: Reverse transcriptases of retroviruses and retroelements: an evolutionary perspective

- 11:50 Anne Dupressoir: The Syncytin-A envelope gene of retroviral origin is essential for mouse placental development
- 12:00 Rachel O'Neil: An ultra-conserved retrovirus produces a new class of small RNA and defines genetic and epigenetic components of the vertebrate centromere
- 12:10 Severine Chambeyron: Small RNA-mediated control of retrotransposons in *Drosophila*
- 12:20 Novel and unexpected cellular partners for HIV-1 integrase and Tat  
*Mauro Giacca, International Centre for Genetic Engineering and Biotechnology, Trieste, Italy*
- 12:40 Lunch

• Session 2: Restriction of Retroelements  
Chairman: *Yamina Bennasser, Institut de Genetique Humaine, Montpellier, France*

- 13:40 The fallout from crossing paths with cellular cytidine deaminases  
*Simon Wain-Hobson, Institut Pasteur, Paris, France*
- 14:00 Antagonizing the effects of Bst-2/tetherin: multiple ways to accomplish one single goal?  
*Klaus Strebel, National Institutes of Health, Bethesda, USA*
- 14:20 The Ups and Downs of HIV-1 Gene Expression  
*Rosemary Kiernan, Institut de Genetique Humaine, Montpellier, France*
- 14:40 Evolution of TRIM antiviral genes in primate genomes  
*Harmit Malik, Fred Hutchinson Research Center, Seattle, USA*
- 15:00 Coffee Break

• Special Talk

- 15:30 siRNA expressed from endogenous retroelements  
*Olivier Voinnet, Institut de Biologie Moleculaire des Plantes, Strasbourg, France*

• Selected talks

- 15:50 Jeremy Luban: TRIM5alpha contributes to the anti-viral state
- 16:00 Christine Kozak: Adaptive evolution of the virus resistance gene *ApoBec* in the genus *Mus*
- 16:10 Yuntao Wu: Dichotomous effects of the cofilin kinase LIMK1 on the early steps of HIV-1 infection of CD4 T cells
- 16:20 Masaaki Miyazawa: Mouse APOBEC3 affects the production of virus neutralizing antibodies by restricting early retroviral replication, not by altering B-cell repertoire
- 16:30 Olivier T. Keppler: HIV-1 antagonism of CD317/tetherin is species-specific and involves Vpu-mediated proteasomal degradation the intrinsic immunity factor.

- 16:40 Sébastien Legros: HTLV-1 inhibits stress granules formation by interacting with the histone deacetylase 6 (HDAC6)
- 16:50 Olivier Rohr: The cellular cofactor CTIP2 is a negative p-TEFb regulator contributing to HIV-1 post-integration latency
- 17:00 Yamina Bennasser: Interplay between HIV-1 replication and RNAi effectors
- 17:10 Poster Session 2
- 19:00 End of day 2 – Coaches depart for Chateau de Flaugergues
- 19:30 Wine tasting and tour of Chateau
- 20:00 Conference dinner at Chateau de Flaugergues

### • Wednesday 23 September

Session 3: Hijacking the cellular machinery  
 Chairman: *Ali Saib, Institut Universitaire d'Hematologie, Paris, France*

- 08:30 Genomic RNA packaging in lentiviruses  
*Andrew Lever, University of Cambridge, Cambridge, UK*
- 08:50 Dynamic interplay between HIV-1 integrase and host cofactors  
*Stephane Emilian, Institut Cochin, Paris France*
- 09:10 Novel cellular processes that regulate post-transcriptional expression of HIV-1 transcripts  
*Kuan-Teh Jeang, Bethesda, USA*
- 09:30 Immunological and virological aspects of HIV cell-to-cell transfer  
*Olivier Schwartz, Institut Pasteur, Paris, France*

#### Special Talk

- 09:50 Conserved genes from yeast to human involved in retroelement transposition  
*Suzanne Sandmeyer, University of California, Irvine, USA*
- 10:10 Coffee Break

#### Selected Talks

- 10:40 David Harrich: A U5 repressor of reverse transcription is required for optimal HIV-1 infectivity and replication
- 10:50 Delphine Muriaux: Targeting of MuLV Gag to the plasma membrane is mediated by PI(4,5)P2 and phosphatidylSerine
- 11:00 Diana Ayinde: The HIV-2 Vpx protein usurps the Cul4A-DDB1-DCAF ubiquitin ligase to overcome a post-entry block in macrophage infection
- 11:10 Françoise Bex: Post-translational modifications of the Tax oncoprotein of human T-cell leukemia virus control cytoplasmic and nuclear steps in Tax-mediated activation of the NF- $\kappa$ B pathway
- 11:20 Matthias Geyer: Insights into the activation of transcription elongation by

- lentiviruses: Structure of the CyclinT1-Tat-TAR RNA complex
- 11:30 Daniel Arosio: Nuclear trafficking of HIV-1 pre-integration complexes in living cells
- 11:40 Sébastien Desfarges: Analysis of LEDGF/p75 binding sequences by ChIP-Seq
- 11:50 Alessandro Marcello: Nuclear organization and the regulation of HIV-1 gene expression
- 12:00 Howard Gendelman: HIV-1 Hijacks Tunneling Nanotubes and Secretory Microvesicles for Intercellular Spread in Monocyte-Derived Macrophages
- 12:10 Lunch

Session 4 Pathogenesis

Chairman: *Olivier Schwartz, Institut Pasteur, Paris, France*

- 13:10 Biochemical and Virological Analysis of the Preference for the K65R Multi-Resistance Nucleoside Mutation in Subtype C Viruses  
*Mark Wainberg, McGill University, Montreal, Canada*
- 13:20 Post-entry events of efficient R5 vs. inefficient X4 HIV-1 replication in primary CD4+ T lymphocytes, a transcriptome analysis  
*Guido Poli, San Raffaele Scientific Institute, Milan, Italy*
- 13:40 Retroviral envelope and their receptors: on the (nutrient) road again  
*Marc Sitbon, Institut de Genetique Moleculaire de Montpellier, Montpellier, France*
- 14:00 Endogenous Retroelements and Autoimmunity  
*Dan Stetson, University of Washington, Seattle, USA*
- 14:20 Role of Regulatory T cells in the pathogenesis of HIV-1 infection  
*Yves Levy, Groupe Henri-Mondor Albert-Chenevier, Creteil, France*
- 14:40 Coffee Break
- 15:10 Inflammatory control in AIDS-resistant non human primates  
*Michaela Müller-Trutwin, Institut Pasteur, Paris, France*

Selected Talks

- 15:30 Fabrizio Mammano: Partial inhibition of HIV replication by type-I interferons: impact of cell-to-cell viral transfer
- 15:40 Prabal Banerjee: HTLV-1 infection of humanized SCID mice recapitulates Adult T-cell Leukemia/Lymphoma (ATLL) development
- 15:50 Mickaël J. Ploquin: High avidity virus-specific CD4+ T cells are lost during retroviral infection upon cognate interaction with B cells
- 16:00 Pierre Roques: Tissue viral dynamics in SIV infected macaques with highly active antiviral therapy (HAART)
- 16:10 Julien Guernon: What do we learn from genome wide association study performed on HIV-1 infected Long Term Non Progressors individuals?

Closing Conference

- 16:20      Novel vaccine and gene therapy approaches against HIV-AIDS  
*Ben Berkhout, University of Amsterdam, Amsterdam, Netherlands*
- 16:40      Closing Address  
*Monsef Benkirane, Institut de Genetique Humaine, Montpellier, France*
- 17:00      End of day 3

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