

Centennial Retrovirus Meeting

Institute of Molecular Genetics, Prague, Czech Republic
April 29 - May 4, 2010

Final Scientific Programme

Day 1 – Thursday, April 29

Arrival of conferees, registration, get-together party

Session 1

Welcoming and Opening Remarks

Chairman: Jan Svoboda

04:30 - 05:00 pm	Jan Svoboda, Institute of Molecular Genetics, Prague Background and perspectives
05:00 - 06:00 pm	David Baltimore, California Institute of Technology, Pasadena Keynote lecture
06:00 pm	Welcome reception

Day 2 – Friday, April 30

Session 2

Action at the Cell Surface

Chairmen: John A.T. Young, Benjamin K. Chen

08:30 - 09:00 am	John A.T. Young, Salk Institute, La Jolla Cellular factor involvement in retroviral replication
09:00 - 09:30 am	Benjamin K. Chen, Mount Sinai School of Medicine, New York Spread of HIV through T cell virological synapses
09:30 - 09:45 am	Paul Jolicoeur, Clinical Research Institute of Montreal Pathogenesis of HIV-1 Nef in thymocytes
09:45 - 10:00 am	Michaela Rumlová, Institute of Organic Chemistry and Biochemistry, Prague Analysis of N-terminus of NC protein of M-PMV: its role in the particle assembly
10:00 - 10:30 am	Coffee break

Centennial Retrovirus Meeting

Institute of Molecular Genetics, Prague, Czech Republic
April 29 - May 4, 2010

Session 3

Identification of Essential Host Cell Factors

Chairmen: Stephen P. Goff, Alan N. Engelmam

10:30 - 11:00 am	Stephen P. Goff, Columbia University, New York HIV-1 Interactions with host proteins
11:00 - 11:30 am	Alan N. Engelmam, Dana-Farber Cancer Institute, Boston HIV-1 preintegration complex function and host cell factors
11:30 - 11:45 am	Peter Cherepanov, Imperial College London Structural basis for retroviral pre-integration complex assembly and strand transfer inhibitor action
11:45 - 12:00 am	C. Martin Stoltzfus, University of Iowa, Iowa City Defective HIV-1 Gag localization and assembly under conditions of excessive viral RNA splicing
12:00 - 02:00 pm	Lunch and poster viewing

Session 4

Insights from Studies of Intracellular Trafficking

Chairmen: Thomas J. Hope, Paul Bieniasz

02:00 - 02:30 pm	Thomas J. Hope, Northwestern University, Chicago Cell biology of intracellular HIV
02:30 - 03:00 pm	Paul Bieniasz, Aaron Diamond AIDS Research Center, Rockefeller University, New York Visualizing HIV-1 virion genesis
03:00 - 03:15 pm	Eric Hunter, Emory University School of Medicine, Atlanta The role of microtubule and actin cytoskeletal networks in the intracellular transport of the Mason-Pfizer monkey virus capsids
03:15 - 03:30 pm	Paul Spearman, Emory University School of Medicine, Atlanta Tetherin endocytosis and HIV replication in human macrophages
03:30 - 04:00 pm	Coffee break

Session 5

Retroviruses and Retroelements as Agents of Genome Rearrangement

Chairmen: Suzanne B. Sandmeyer, Haig H. Kazazian

04:00 - 04:30 pm	Suzanne B. Sandmeyer, University of California Irvine Adaptive targeting by retrotransposons as a force for genomic remodeling
04:30 - 05:00 pm	Haig H. Kazazian, Jr, University of Pennsylvania, Philadelphia High-throughput sequencing reveals extensive variation in human-specific L1 content in individual human genomes
05:00 - 05:15 pm	René Daniel, Thomas Jefferson University, Philadelphia HIV-1 integration site preferences in pluripotent stem cells
05:15 - 07:00 pm	Poster session
07:00 - 21:30 pm	Cocktail party for invited speakers and guests, Villa Lanna

Centennial Retrovirus Meeting

Institute of Molecular Genetics, Prague, Czech Republic
April 29 - May 4, 2010

Day 3 – Saturday, May 1

Session 6

Retrovirus Evolution

Chairmen: John Coffin, Paul M. Sharp

08:30 - 09:00 am	John Coffin, Tufts University, Boston Evolution of the Alpharetrovirus-receptor interaction
09:00 - 09:30 am	Paul M. Sharp, University of Edinburgh The evolution of HIV-1 and the origin of AIDS
09:30 - 09:45 am	Naomi Rosenberg, Tufts University, Boston v-onc gene containing retroviruses and target cell specificity: insights revealed by Abelson virus
09:45 - 10:00 am	K. Hanke, Robert Koch Institute, Berlin Staufen-1 interacts with the HERV-K Rec protein affecting viral RNA transport and assembly processes
10:00 - 10:30 am	Coffee break

Session 7

Retroviral Vectors and Retrovirus Persistence

Chairmen: Stephen H. Hughes, Ashley T. Haase

10:30 - 11:00 am	Stephen H. Hughes, National Cancer Institute, Frederick Lens epithelium derived growth factor (LEDGF) fusion proteins that redirect HIV-1 DNA integration
11:00 - 11:30 am	Ashley T. Haase, University of Minnesota, Minneapolis Retrovirus and lentivirus persistence and reservoirs from visna virus to HIV-1
11:30 - 11:45 am	Mikulas Popovic, Institute of Human Virology, Baltimore Host cells for human retroviruses: lessons from infection of mammalian cells with avian sarcoma virus
11:45 - 02:00 pm	Lunch and poster viewing

Session 8

Cellular Defenses

Chairmen: Michael Malim, Jonathan Stoye

02:00 - 02:30 pm	Michael Malim, King's College London Cellular APOBEC3 proteins and HIV-1 Vif
02:30 - 03:00 pm	Jonathan Stoye, National Institute for Medical Research, London Capsid binding restriction factors
03:00 - 03:15 pm	Jeremy Luban, University of Geneva TRIM5 is a retroviral capsid-specific receptor that contributes to the antiviral state
03:15 - 03:30 pm	M. Blissenbach, Ruhr University Bochum Nuclear RNA export and packaging functions of HIV-1 Rev revisited
03:30 - 04:00 pm	Coffee break

Centennial Retrovirus Meeting

Institute of Molecular Genetics, Prague, Czech Republic
April 29 - May 4, 2010

Session 9

Epigenetic Effects on Retroviral Gene Expression

Chairmen: Richard A. Katz, David M. Margolis

04:00 - 04:30 pm	Richard A. Katz, Fox Chase Cancer Center, Philadelphia Identification of host factors that initiate and maintain retroviral epigenetic silencing
04:30 - 05:00 pm	David M. Margolis, University of Northern Carolina, Chapel Hill Epigenetic regulation of the HIV promoter and approaches to persistent retroviral infection
05:00 - 05:15 pm	Jiri Hejnar, Institute of Molecular Genetics, Prague CpG methylation and transcriptional suppression of endogenous retroviruses and retroviral vectors
05:15 - 07:00 pm	Poster session

Day 4 – Sunday, May 2

Session 10

Mechanisms of Disease

Chairmen: Peter K. Vogt, Robin A. Weiss

09:00 - 09:30 am	Peter K. Vogt, Scripps Research Institute, La Jolla Oncogenic mutations in PI3K: genetic and mechanistic considerations
09:30 - 10:00 am	Robin A. Weiss, University College London Transmissible cancer cells
10:00 - 10:15 am	Karen Beemon, Johns Hopkins University, Baltimore Avian leukosis virus oncogenesis involves integrations that activate oncogenes, microRNA-155, and TERT
10:15 - 10:45 am	Coffee break

Session 11

Roles of Innate and Adapted Defenses in Infections by Retroviruses

Chairmen: Francis W. Ruscetti, Malcolm A. Martin

10:45 - 11:15 am	Francis W. Ruscetti, National Institutes of Health, Bethesda Cell-free HTLV-1-Infection of PLASMAcytoid AND mYELOID Dendritic cells IN VITRO: Pathogenic Considerations of in vivo infection of Dendritic Cells
11:15 - 11:45 am	Malcolm A. Martin, National Institutes of Health, NIAID, Bethesda HIV 1 acquisition: SIV and SHIV models of acute primate lentivirus infections in macaque monkeys
11:45 - 12:00 pm	Kim J. Hasenkrug, National Institutes of Health, Rocky Mountain Laboratories, Hamilton Adaptive immune responses to Friend virus infection in mice
12:00 - 12:15 pm	Paula Pitha-Rowe, Johns Hopkins University, Baltimore The role of innate antiviral response in HIV-1 infection
12:15 - 12:45 pm	Sandwich lunch
12:45 - 05:00 pm	Tour of Prague/Free Afternoon

Centennial Retrovirus Meeting

Institute of Molecular Genetics, Prague, Czech Republic
April 29 - May 4, 2010

Day 5 – Monday, May 3

Session 12

Anti-viral Strategies: Drugs and Vaccines

Chairman: Eric De Clercq

09:00 - 09:30 am	Gary J. Nabel, National Institutes of Health, Bethesda Rational Design of Envelope Surface Identifies Broadly Neutralizing Human Monoclonal Antibodies to HIV-1
09:30 - 10:00 am	Ronald C. Desroisiers, New England Primate Center, Southborough Overcoming, or Circumventing, the Barriers to an AIDS Vaccine
10:00 - 10:30 am	Coffee break

Session 13

Trends in Retroviral Therapy

Chairman: Ronald C. Desroisiers

10:30 - 11:00 am	Erik De Clercq, Rega Institute for Medical Research, Leuven Prospects of anti-HIV therapy
11:00 - 11:30 am	Leonid Margolis, National Institutes of Health, NICHD, Bethesda Exploiting coinfecting microbes to suppress HIV-1 infection
11:30 - 11:45 am	Karin Moelling, University of Zurich HIV suicide through viral RNase H
11:45 - 12:00 pm	M. Katzman, Penn State College of Medicine, Hershey A novel antiviral strategy of stimulating integrase's nonspecific nuclease activity to damage retroviral DNA
12:00 - 12:15 pm	Duane Grandgenett, Saint Louis University HIV-1 integrase: Concerted DNA integration and identification of a new major integrase-raltegravir-single DNA complex
12:15 - 02:00 pm	Lunch and poster viewing

Session 14

Meeting Wind-up

Chairman: Anna M. Skalka

02:00 - 02:30 pm	Françoise Barré-Sinoussi, Institute Pasteur, Paris History and future of basic science in human retroviruses
02:30 - 03:00 pm	Stephen P. Goff, Columbia University, New York Summary observations
03:00 - 03:30 pm	Anna M. Skalka, Fox Chase Cancer Center, Philadelphia Closing remarks
05:00 - 09:00 pm	Farewell dinner at the Grand Monastery Restaurant

Day 6 – Tuesday, May 4

Departure

Meeting department:

CZECH-IN s. r. o., 5. května 65, 140 21 Prague 4, Czech Republic, Tel.: 261 174 305, Fax: 261 174 307, info@crm2010.org