
RETROPATH 2017

29th International Workshop on Retroviral Pathogenesis

Programme

Sunday, August 27	
4:00 pm – 8:30 pm	Registration in Chateau Liblice Foyer
4:00 pm – 7:45 pm	Speaker presentation uploads in Lecture Hall
6:00 pm – 7:30 pm	Reception in the Marble Hall
7:30 pm – 7:45 pm	Introductory remarks in Lecture Hall
7:45 pm – 8:45 pm	Tribute to Jan Svoboda (Robin Weiss, Jiri Hejnar, and others)

Monday, August 28	
8:00 am – 8:00 pm	Registration in Chateau Liblice Foyer
8:00 am – 8:00 pm	Speaker presentation uploads in Lecture Hall
7:30 am – 8:30 am	Breakfast in Chateau Liblice Restaurant
7:30 am – 8:30 am	Poster set up in Marble Hall
8:30 am – 9:15 am	Keynote Lecture 1 – Marc Sitbon: Retroviral envelopes and metabolic receptors: A fairy tale of humans, koalas and other mammals
SESSION 1 – VIRAL LIFE CYCLE (PART ONE, EARLY EVENTS). Session chairs: Karen Beemon and Hung Fan	
9:20 am – 9:40 am	Norbert Bannert: Identification of a receptor binding site of the human endogenous retrovirus HERV-K(HML-2)
9:40 am – 10:00 am	Monica Roth: Structural and sequencing studies involving gammaretroviral p12 chromatin tethering domain, integrase and human BET domains
10:00 am – 10:20 am	Li Wu: N6-methyladenosine of HIV-1 RNA regulates viral replication: mechanisms and implications
10:20 am – 10:30 am	David Prikryl: Superinfection interference and receptor usage of the newly emerging subgroup of avian leukosis virus. Short talk selected from abstracts
10:30 am – 11:00 am	Break in Marble Hall Foyer
SESSION 1 – VIRAL LIFE CYCLE (PART TWO, LATE EVENTS, EXPRESSION AND LATENCY). Session chairs: Karen Beemon and Hung Fan	
11:00 am – 11:20 am	Jun-ichi Sakuragi: The analysis of HIV-1 genome packaging by comparison of subtype sequences.
11:20 am – 11:40 am	Dalibor Miklík: Accumulation of long-term transcriptionally active vectors in active promoters and enhancers.

11:40 am – 12:00 am	Michaela Rumlová: Basic region of the M-PMV nucleocapsid protein plays a critical role in NC-RNA interactions.
12:00 am – 12:20 pm	Jana Blažková: Effect of analytical treatment interruption of antiretroviral therapy on HIV reservoirs and immunological parameters
12:30 pm – 2:00 pm	Lunch Buffet in Chateau Liblice Restaurant
SESSION 2 – ENDOGENOUS RETROVIRUSES.	
Session Chairs: Joachim Denner and Mary Poss	
2:00 pm – 2:20 pm	Christine A. Kozak: Modification of mouse and human endogenous retroviruses by deletions of coding region segments flanked by short direct repeats
2:20 pm – 2:40 pm	Daniel Elleder: Discovery of rare endogenous retroviruses
2:40 pm – 3:00 pm	Robert Gifford: Genomic and evolutionary characteristics of novel retroviral lineages identified by phylogenetic screening of 234 vertebrate genomes
3:00 pm – 3:20 pm	Petr Svoboda: LTR-driven evolution of genes and gene expression programs in mammalian oocytes and zygotes
3:20 pm – 3:40 pm	Tongguang Wang: RNA-seq reveals molecular events regulated by HERV-K in human stem cells
3:40 pm – 4:15 pm	Break in Marble Hall Foyer
4:15 pm – 6:00 pm	Poster Session in Marble Hall
6:00 pm – 7:30 pm	Dinner in Chateau Liblice Restaurant
8:00 pm – 9:30 pm	Wine Tasting in Chateau Liblice Wine Cellar

Tuesday, August 29

8:00 am – 8:00 pm	Registration in Chateau Liblice Foyer
8:00 am – 8:00 pm	Speaker presentation uploads in Lecture Hall
7:30 am – 8:30 am	Breakfast in Chateau Liblice Restaurant
SESSION 3 – RESTRICTION FACTORS AND ACCESSORY PROTEINS.	
Session Chairs: Patrick Green and Luigi Chieco-Bianchi	
8:30 am – 8:50 am	Donna D'Agostino: Small noncoding RNAs in HTLV-1-infected cells
8:50 am – 9:10 am	Jaquelin M. Dudley: In vivo retroviral replication suggests interactions with multiple APOBEC family members
9:10 am – 9:30 am	Masaaki Miyazawa: Mouse APOBEC3 disrupts proteolytic autoprocessing of retroviral gag-pol precursors through direct binding to the protease domain
9:30 am – 9:50 am	Stanislav Indik: Reverse transcriptase of mouse mammary tumor virus does not allow a high level of deamination by APOBEC3 proteins
9:50 am – 10:00 am	Saina Beitari: HIV-1 antagonizes SERINC5. Short talk selected from abstracts.
10:00 am – 10:30 am	Break in Marble Hall Foyer
10:30 am – 10:50 am	Yoshinao Kubo: Rab3A, a small GTP-binding protein, is required for virion formation of murine leukemia virus
10:50 am – 11:10 am	David Rekosh: REV-RRE functional activity differs substantially among primary HIV-1 isolates

11:10 am - 11:30 am	Carsten Münk: Human APOBEC3H forms a barrier for cross species transmission of SIV of chimpanzee to humans
11:30 am – 11:50 am	Anna Maria Passos-Castilho: nucleophosmin and nucleolin interact with bovine immunodeficiency virus rev protein and facilitate viral replication
11:50 am – 12:10 pm	Amanda Panfil: Stability of the HTLV-1 antisense-derived protein, HBZ, is regulated by the E3 ubiquitin ligase Ubr5. Short talk selected from abstracts
12:10 pm – 1:30 pm	Lunch Buffet in Chateau Liblice Restaurant
1:30 pm – 7:00 pm	Free afternoon, trips (Škoda Cars in Mladá Boleslav, Antonín Dvořák in Nelahozeves, Brewery in Lobeč, Castle Bezděz)
7:00 pm – 8:30 pm	Dinner in Chateau Liblice Restaurant
8:30 pm – 9:15 pm	Keynote Lecture 2 – Karen Beemon: Avian retroviruses. RNA processing and cancer

Wednesday, August 30

8:00 am – 8:00 pm	Registration in Chateau Liblice Foyer
8:00 am – 8:00 pm	Speaker presentation uploads in Lecture Hall
7:30 am – 8:30 am	Breakfast in Chateau Liblice Restaurant
8:30 am – 9:15 am	Keynote lecture 3 – Charles R.M. Bangham: HTLV-1: persistence and pathogenesis

SESSION 4 – IMMUNOLOGY.

Session Chairs: Kim Hasenkrug and Ivan Hirsch

9:20 am – 9:40 am	Ulf Dittmer: The dose of retroviral infection determines the induction of anti-viral NK cell responses
9:40 am – 10:00 am	Susan R. Ross: The Alr locus and its role in sensing retroviruses and retroelements
10:00 am – 10:10 am	Joachim Denner: Retroviruses are immunosuppressive: role of the transmembrane envelope proteins
10:10 am – 10:30 am	Kathrin Sutter: Improved effector functions of Friend Retrovirus-specific CD8+ T cells mediated by IFN α subtypes-activated DCs
10:30 am – 10:50 am	Shin-nosuke Takeshima: CNTN3 rs110616206, MHC class III rs29026690 and MHC class I rs17872126 associated with the development of BLV infection determined by a GWAS
10:50 am – 11:30 am	Break in Marble Hall Foyer

SESSION 5 – PATHOGENESIS.

Session Chairs: Charles Bangham and Masaki Miyazawa

11:30 am – 11:50 am	James C. Neil. Targeting the runx genes: from retroviral mutagenesis to allosteric inhibitors
11:50 am – 12:10 pm	Mary Poss: Do endogenous retroviruses contribute to LGL leukemia?
12:10 pm – 12:30 pm	Mario L. Santiago: Unraveling HIV-1, microbe and host interactions in primary intestinal CD4+ T cells by transcriptomic profiling
12:30 pm – 12:50 pm	Marta Garcia-Montojo: Human endogenous retrovirus K is more active in the blood of amyotrophic lateral sclerosis patients and can be targeted by antiretroviral therapy
12:50 pm – 1:10 pm	Myoung-Hwa Lee: Transgenic mouse model of human endogenous retrovirus-K for studying the pathogenesis of amyotrophic lateral sclerosis
1:10 pm – 2:30 pm	Lunch Buffet in Chateau Liblice Restaurant

SESSION 6 – VACCINES, THERAPEUTICS, AND NEW TECHNOLOGIES.

Session Chairs: Susan Ross and James Neil

2:30 pm – 2:50 pm	Yoko Aida: Development of a bovine leukemia virus vaccine targeting susceptible cattle
2:50 pm – 3:10 pm	Joachim Denner: Do porcine endogenous retroviruses (PERVs) pose a risk for xenotransplantation?
3:10 pm – 3:30 pm	Marie-Luise Hammarskjöld: Studies of lentiviral vector mediated antisense RNA inhibition reveals specific interactions between the rev/irre pathway and the adar editing machinery
3:30 pm – 3:50 pm	Wibke Bayer: Advanced flow cytometric analysis of Friend virus infected target cells in mice
3:50 pm – 4:10 pm	Closing remarks
4:10 pm – 4:20 pm	Masaki Miyazawa: 30th International Workshop on Retroviral Pathogenesis in Kobe
4:20 pm – 6:00 pm	Free Time, Discussions
6:00 pm – 7:30 pm	Gala Dinner in Chateau Liblice Restaurant
7:30 pm – ??	Beer, Wine and Barbecue on the Terrace

Thursday, August 31

6:30 am – 10:00 am	Breakfast in Chateau Liblice Restaurant
6:30 am – 12:00 am	Departure. Schedule of shuttle buses will be provided soon

Posters (Monday, August 28, 4:00 pm – 6:00 pm, Marble Hall)

Norbert Bannert	No significant HTLV seroprevalence in german people who inject drugs
Saina Beitari	HIV-1 Env antagonizes SERINC5
Vicenzo Ciminale	Effects of Rex and cell division on HTLV-1 expression
Joachim Denner	Characterisation of koala retroviruses (KoRV) in European zoos and generation of a vaccine
Tara Doucet-O'Hare	Activation of a human endogenous retrovirus in a neurodevelopmental tumor and modulation by ouabain
Laurie Gray	HERV-K RcRE-like RNA elements present within some human genes function with HIV-1 Rev
Tomáš Hron	Insight into the epigenetic landscape of currently endogenizing gammaretrovirus present in the mule deer (<i>Odocoileus hemionus</i>) genome
Hongping Jin	Establish a humanized mouse model for testing a potent anti-HIV agent, nullbasic, <i>in vivo</i>
Anna Koslová	Rous sarcoma virus host range extension is coupled with Env-activating mutations
Michaela Madleňáková	Role of heme-induced redox stress in HIV-1 latency and cure
Claude Marchand	Identification of the nuclear/nucleolar import and nuclear export signals of the jembrana disease virus rev protein
Amanda R. Panfil	Stability of the HTLV-1 antisense derived protein, HBZ, is regulated by the E3 ubiquitin ligase, UBR5
Vladimír Pečenka	HRAS, EGFR, RON and MET are recurrent targets of insertional mutagenesis in MAV-2 retrovirus-induced hepatocellular carcinomas, intrahepatic cholangiocarcinomas and hepatic hemangiosarcomas
David Příklad	Superinfection interference and receptor usage of the newly emerging subgroup of avian leukosis virus
Filip Šenigl	Mapping somatic hypermutation susceptibility across the genome

Kateřina Trejbalov	DNA hypomethylation and aberrant expression of the human endogenous retrovirus ERVWE1/syncytin-1 in seminomas
Anne-Marie W. Turner	Profiling the chromatin state of HIV latency
Girish N. Vyas	Immune tolerance at the B cell level may underlie the pathogenesis of universally persistent HIV infection, a provocative concept