



CONFERENCE PROGRAM

Thursday February 16th 2017

12:00-13:00	registration
13:00-13:20	conference opening
13:20-14:20	keynote lecture 1 <i>Pavel Plevka: Genome release of non-enveloped viruses</i>
13:20-18:40	lectures 1 - 10
13:20-14:40	<i>Zora Mělková: Role of heme-induced redox stress in HIV-1 latency reversal and cure</i>
14:40-15:00	<i>David Přikryl: Retroviral envelope glycoprotein: key or picklock?</i>
15:00-15:20	<i>Klára Labská: Frequent HHV6 DNA positivity in children with severe burn injury</i>
15:20-15:50	coffee break
15:50-16:10	<i>Jana Tomášková: Identification of host proteins modulated during persistent lymphocytic choriomeningitis virus infection in human cell line</i>
16:10-16:30	<i>Daniel Růžek: Novel insights into tick-borne encephalitis neuropathogenesis.</i>
16:30-16:50	<i>Luděk Eyer: Nucleoside analogues as anti-Flavivirus agents</i>
16:50-17:10	<i>Robert Szabó: Antiviral and Anticancer Activity of Aryl-Piperazine Derivates</i>
17:10-17:40	coffee break
17:40-18:00	<i>Tibor Füzik: Cryo-EM study of Tick-borne encephalitis virus interacting with a neutralizing antibody</i>
18:00-18:20	<i>Tomáš Kroupa: The interactions of the Mason-Pfizer monkey virus matrix protein and its budding deficient mutants with membrane phospholipids</i>

18:20-18:40	<i>Jiří Černý: A long, long time ago in a galaxy not so far away... (what can structures of polymerases tell us about evolution of RNA viruses)</i>
18:40-19:20	poster session – odd numbers
19:20-20:00	poster session – even numbers
20:00-forever	conference dinner

Friday February 17th 2017

08:30-12:40	lectures 11-21
08:30-08:50	<i>Alžběta Dostálková: Basic region of the Mason-Pfizer monkey virus nucleocapsid protein plays a critical role in NC-RNA interactions</i>
08:50-09:10	<i>Michaela Procházková: Structure of sacbrood virus of honeybee reveals evolution of minor capsid protein attached to the virion surface</i>
09:10-09:30	<i>Yevgen Levdansky: Cryo-EM structure of human echovirus 18 at 3.1Å-resolution</i>
09:30-09:50	<i>Dominik Hrebik: Structure and genome release mechanism of podovirus P68 infecting Staphylococcus aureus</i>
09:50-10:10	<i>Bio-Rad: Digital PCR and its application in virological research</i>
10:10-10:30	<i>Tomas Moravec: Versatile toolbox for transient plant expression based on DNA and RNA plant viruses</i>
10:30-10:50	<i>Jana Fránová: New rhabdoviruses infecting red clover</i>
10:50-11:20	coffee break
11:20-11:40	<i>Tomáš Csank: Tribeč virus (Great Island virus serogroup; genus Orbivirus) in ruminants and rodents in Slovakia</i>
11:40-12:00	<i>Jiří Černý: Cool viruses from cold climate areas –viral zoonoses in Arctic</i>
12:00-12:20	<i>Petra Straková: Hantaviruses in Europe – still surprises!</i>
12:20-12:40	<i>Boris Klempa: Hantaviruses Got Wings: Bat-Borne Hantaviruses in Africa</i>
12:40-13:40	keynote lecture 2 <i>Debby van Riel - Influenza virus-associated CNS disease: Virus or immune-mediated?</i>
13:40-14:00	conference closing

LIST OF POSTERS

- 1 Mário Benko: Cloning, isolation and expression of recombinant HCMV immunoevasin UL144 in BV-Sf9 insect cells
- 2 Olena Berehovska: Antiviral action of fluoride heterocyclic compounds on the EBV infection model
- 3 Tatiana Betáková: Expression of chemokines CCL2, CXCL1, and CXCL13 in the lungs of mice infected with human and avian influenza viruses
- 4 David Buchta: Structure of A-particle of Coxsackievirus B3 at 3.3Å resolution
- 5 Zuzana Cienikova: Structural investigation of viral genome release mechanism
- 6 Alžbeta Dikunová: Expression of RNA-dependent-RNA-polymerase of chronic bee paralysis virus using bacterial and baculovirus expression systems
- 7 Petra Drzewnioková: Molecular detection of Tick-borne encephalitis virus and Tribeč virus from ticks in Eastern Slovakia.
- 8 Jana Fránová: Investigation of phytoplasma diseases and its vectors in the Czech Republic
- 9 Jitka Frölichová: Fecal samples for PRRS virus diagnostics
- 10 Mária Gondová: Structural studies of 3D polymerase and its precursor protein 3CD of Acute bee paralysis virus
- 11 Joëlle Goüy de Bellocq: The importance of the host phylogeographic structure in the spatial spread of viruses: *Mastomys natalensis* arenaviruses in Tanzania.
- 12 Jakub Hejdánek: Development and optimization of the assay for screening the compounds disrupting protein-protein interaction in influenza A polymerase
- 13 Lenka Hrabáková: First report of viral infection in holomorphic alkaliphilic fungus
- 14 Johana Hrnková: Genetic characterization of parvoviruses isolated from biological samples of Arctic foxes and Eurasian wolves
- 15 Lucia Jakubcová: Luciferase assay: A method for determination of fusion activity of influenza hemagglutinin
- 16 Helena Jiřincová: Sequence Tracer: a simple web-based tool for nucleic acid sequence alignment stratification: The example of its utility in the re-assessment of an universal diagnostic qPCR assay for Influenza A viruses
- 17 Elena Karlukova: Development and optimization of the assay for screening the compounds inhibiting endonuclease activity and disrupting cap-binding of influenza A polymerase
- 18 Natalia Kornienko: Inhibition of *Serratia marcescens* on *Tulipa* scales and *Geranium* plants by lytic bacteriophage
- 19 Marcela Kúdelová: Murine herpesvirus 68, a newfound pathogen identified in ticks collected in Slovakia
- 20 Veronika Lachová: Expression of chemoattractants CXCL10, CCL3 and CCL5 are regulated by NS1 protein of influenza A virus
- 21 Hana Langerová: Retroviral trafficking and membrane targeting
- 22 Katarína Lapošová: Hypoxia regulates acute lymphocytic choriomeningitis virus infection
- 23 Dana Lobová: Introduction of modern methods in diagnostics of cat respiratory pathogens and their prevalence
- 24 Barbora Lubyová: Role of protein arginine N-methyltransferases (PRMTs) in Hepatitis B virus replication
- 25 Michaela Madlenakova: Correlation of plasma and cell-associated viremia with heme metabolism and redox state and in HIV-1-infected patients
- 26 Radka Matúšková: Site-directed mutagenesis of the chemokine binding M3 protein of MHV-68 reveals mutations that increase the potency of CC chemokine blockade
- 27 Jana Moravcová: Structural studies of human enterovirus 70
- 28 Liya Mukhamedova: Virion structure of Kashmir bee virus and identification of its receptor
- 29 Jana Müllerová: Detection of Arboviruses from Thousands of Mosquitoes from Svalbard and Greenland
- 30 Ivana Nemčovičová: Molecular binding characteristics of recombinant NK cell receptor CD160 and the crystal structure of the herpesvirus entry mediator HVEM
- 31 Martin Palus: Changes in human blood brain barrier cells during tick-borne encephalitis virus infection
- 32 Anastasia Panchenko: Bacteriophages of phytopathogenic bacteria of greenhouse orchids as candidates for creating active biologicals
- 33 Karel Petrzik: Viruses detected in skin-associated fungi in dogs
- 34 Růžena Píchalová: Effect of cysteine mutations in Mason-Pfizer monkey virus capsid protein on the assembly and the morphology of retroviral particle
- 35 Hana Pilná: Effects of Interferon Regulatory Factor-3 expression on responses towards vaccinia virus in the atopic Nc/Nga and control Balb/c mice
- 36 Jana Pokorná: H1N1 2009 Pandemic Influenza Virus: Kinetic, Structural and Thermodynamic Analysis of the H275Y, I223V and S247N Neuraminidase Resistant Mutants

- 37 Karolína Pokorná: Innate immune recognition of mouse polyomavirus
- 38 Barbora Pokrývková: Characteristics of tonsillar tumors with extrachromosomal and integrated human papillomavirus
- 39 Martin Polak: Molecular architecture and life cycle of Potato virus X
- 40 Katarína Polčicová: Differential immune response to persistent infection with different LCMV strains in vitro.
- 41 Veronika Prančlová: Comparison of tick-borne encephalitis virus replication cycle in tick and mammalian host cell.
- 42 Jan Prchal: Interaction of Mason-Pfizer Monkey Virus Matrix Protein with its Env Protein
- 43 Dorota Rousová: Characterization of Deformed wing virus 3C protease and 3CD polymerase
- 44 Lenka Sácká: Role of HIV fitness in patients without antiretroviral therapy
- 45 Jiří Salát: Tick-Borne Encephalitis in small ruminants in the Czech Republic
- 46 Alžběta Sekavová: Virus-like particles as a tool for type-specific diagnostics of BK virus infections
- 47 Martin Selinger: Transcriptome analysis of neuronal cells infected with tick-borne encephalitis virus reveals strong induction of host response-associated genes that exclude type I interferons.
- 48 Abdoallah Sharaf: Complete genome sequence of new virulent actinophages belonging to *Streptomyces flavovirens*
- 49 Nina Sihelská: Improving the polyvalence of RT-PCR detection of cherry viruses based on updated molecular data
- 50 Roksolana Sovinska: Development of ecology-friendly bacteriophage-based agents protecting potatoes against bacterial diseases
- 51 Marta Šiborová: Structural studies of *E.coli* attacking bacteriophage SU10 - potential phage therapy agents
- 52 Karel Škubník: Structure of deformed wing virus, a honeybee pathogen
- 53 Jana Těšíková: Tigray virus - hantavirus from the Ethiopian white-footed mouse (*Stenocephalemys albipes*)
- 54 Karolína Tomčíková: Mechanism of antiviral action of F(ab)₂ and Fc fragments of anti-HA2 monoclonal antibody on lethal influenza infection in vivo
- 55 Lucia Turianová: Influence of hypoxia on replication of NS1 deletion mutants of influenza A viruses.
- 56 Mária Vozárová: The method for determination of infectivity of influenza A virus at acidic environment.
- 57 Zuzana Vozárová: Cherry virus A (CVA) reveals a high intra-isolate heterogeneity
- 58 Michaela Vrbová: By hypoxia and chemically induced virus reactivation in mouse lymphoblastoid B cell line (S11E) transformed by Murine herpesvirus 68