

12:30 - 12:45 **Opening Ceremony**

Pavel Martásek / Scientific Director, BIOCEV

Announcement of the BIOCEV's PhD Student Publication Awards

Cellular Biology and Virology

Chair: Jan Tachezy / Head of Research Programme

12:45 - 13:35	Cell entry of non-enveloped viruses Pavel Plevka / Laboratory of Structural Virology, CEITEC, Masaryk University, Brno
13:35 - 14:10	Semaphorins and Plexins - Orchestrating Signalling in Time and Space Daniel Rozbeský / Faculty of Science, Charles University
14:10 - 14:30	Coffee Break - Foyer at the Conference Hall
14:30 - 15:05	Search for New Components of IL-17 Receptor Regulating Autoimmune Pathology Peter Dráber / First Faculty of Medicine, Charles University
15:05 - 15:20	Tumour-Associated Macrophages - an Insight in Their Cytotoxic Potential in tumourswith Reduced MHC-I Expression
	Adriana Piataková / Faculty of Science, Charles University
15:20 - 15:35	Enzyme Catalysis Prior to Aromatic Residues: Reverse Engineering of a Dephospho-CoA Kinase Mikhail Makarov / Faculty of Science, Charles University
15:35	Poster Session (with commentary and drink)
	May continue during a buffet dinner / Light refreshment
17:00 - 20:00	Buffet & Barbecue Dinner - Perfect Canteen BIOCEV



















BIOCEV, Průmyslová 595, Vestec 252 50 · Czech Republic Main Coference Hall (Room No. U2.012)

Monday October 10

Tuesday October 11

Wednesday October 12

Functional Genomics

Chair: Radislav Sedláček / Head of Research Programme

	Chair. Radislav Gediacek / Flead of Research Hogranime
09:00 - 09:50	Development of Nonviral Vectors: Parallel Approaches Using Cell Derived Therapy Saara Laitinen / Finnish Red Cross Blood Service, Finland
09:50 - 10:25	The Effect of CDK13 Deficiency on Embryogenesis Marcela Buchtová / Institute of Animal Physiology and Genetics, Czech Academy of Sciences + Masaryk University, Brno
10:25 - 10:45	Coffee Break - Foyer at the Conference Hall
10:45 - 11:20	Regulation of Mammary Epithelial Morphogenesis by Fibroblasts Zuzana Sumbalová Koledová / Masaryk University, Brno
11:20 - 11:35	Loss of Wiz Function Affects Methylation Pattern in Palate Development and Leads to Cleft Palate Ivana Buková / Institute of Molecular Genetics, Czech Academy of Sciences
11:35 - 11:50	Posttranscriptional Regulation of Amelogenin by Non Canonical Poly A PolymeraseTent5a is Essential for Enamel Formation
	Goretti Aranaz Novaliches / Institute of Molecular Genetics, Czech Academy of Sciences
11:50 - 13:00	Lunch Break - Perfect Canteen BIOCEV · Not covered by the organizers
	Structural Biology and Protein Engineering
	Chair: Bohdan Schneider/ Head of Research Programme
13:00 - 13:50	Explosive Studies of Biological Macromolecules

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13:00 - 13:50	Explosive Studies of Biological Macromolecules
	Janos Hajdu / Uppsala University, Sweden + ELI Beamlines, Institute of Physics, Czech Academy of Sciences
13:50 - 14:25	May the Light be with You: Monitoring Photoinduced Structural Dynamics of the Transcription Factor EL222 with the Aid of Genetic Code Engineering
	Gustavo Fuertes Vives / Institute of Biotechnology, Czech Academy of Sciences
14:25 - 14:50	Coffee Break - Foyer at the Conference Hall
14:50 - 15:05	Fast Fluoralkylation of Proteins Uncovers the Structure and Dynamics of Biological Macromolecules.
	Lukáš Fojtík / Institute of Microbiology, Czech Academy of Sciences
15:05 - 15:20	Structural glimpse into 14-3-3 protein dependent regulation of ubiquitin ligase Nedd4-2
	Pavel Pohl / Institute of Physiology, Czech Academy of Sciences
15:20 - 15:35	Structural Characterization of Protein-DNA Complexes by Hydroxyl Radicals
	Marek Polák / Institute of Microbiology, Czech Academy of Sciences
15:35 - 15:50	Exploiting the Non-Canonical Amino Acid 4-Cyanophenylalanine for Time-Resolved Infrared
	Structural Biology of a Photosensitive DNA-Binding Protein
	Chaudhari Aditya Suresh / Institute of Biotechnology, Czech Academy of Sciences

15:50 Closing Remarks



















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Monday October 10

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Wednesdav October 12

Biomaterials and Tissue Engineering

Chair: Tomáš Etrych / Head of Research Programme

09:00 - 09:50	The Role of Extracelullar Matrix in Nervous System Regeneration Jessica Kwok / University of Leeds, United Kingdom
09:50 - 10:25	Fibroblasts in Perspective of Modern Cell/Molecular Biology Karel Smetana / First Faculty of Medicine, Charles University
10:25 - 10:45	Coffee Break - Foyer at the Conference Hall
10:45 - 11:20	Polymer Particles as Contrast Agents for Photoacoustic Tomography
	Monika Paúrová / Institute of Macromolecular Chemistry, Czech Academy of Sciences
11:20 - 11:35	MicroRNA in Spinal Cord Injury: Potential Role and Therapeutic Significance
	Ivan Arzhanov / Institute of Experimental Medicine, Czech Academy of Sciences
11:35 - 11:50	Exosomes Influence Biological Activity of Fibroblasts in Vitro
	Strnadová Karolína / First Faculty of Medicine, Charles University
11:50 - 13:00	Lunch Break - Perfect Canteen BIOCEV · Not covered by the organizers

Development of Diagnostics and Therapeutic Procedures

Chair: Stanislav Kmoch / Head of Research Programme

13:00 - 13:50	Are We There Yet? The Journey of Proteins to their Cellular Destination Moran Dvela Levitt / The Mina and Everard Goodman Faculty of Life Sciences, Bar-Ilan University, Israel
13:50 - 14:25	New Paradigma in Cell Biology: From Horizontal Mitochondrial Transfer to Tissue Regeneration Jiří Neužil / Institute of Biotechnology, Czech Academy of Sciences
14:25 - 14:45	Coffee Break - Foyer at the Conference Hall
14:45 - 15:20	Regeneration Initiation Studied by Single Cell and Spatial Transcriptomics
	Radek Šindelka / Institute of Biotechnology, Czech Academy of Sciences
15:20 - 15:35	The Role of Intrinsic Disorder in Sate-Wise Assembly of Functional Mitochondrial Complex II
	Soňa Bálintová / Institute of Biotechnology, Czech Academy of Sciences
15:35 - 15:50	Use of Genomic Analyses in Identification of Molecular Basis of Rare Diseases of Peadiatric Onset
	Lenka Nosková / Research Unit for Rare Disease, Department of Pediatrics and Metabolic Disorder
	/ First Faculty of Medicine, Charles University



15:50

Official Closing













