

CZECH-BIOIMAGING CONFERENCE
Imaging Principles of Life 2025

POSTER SESSION

- P-1 Bibiána Baďurová, Biomedical Centre Martin, Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia**
Development of 3D dental stem cell organoids and optimization of culture parameters for bone tissue applications
- P-2 Barbora Burýšková, Telight Brno s.r.o.**
Upgrade your microscope for gentle super-resolution
- P-3 Eva Dražanová, Institute of Scientific Instruments of the Czech Academy of Sciences, Brno**
Characterization of Ultra-High Frequency Oscillations Following Acute Intrahippocampal Administration of Kainic Acid in Mice
- P-4 Eva Ďurinová, BIOCEV, Faculty of Science, Charles University, Vestec**
IMCF at BIOCEV: Advanced Microscopy for Everyone
- P-5 Berwini Endaya, Institute of Biotechnology of the Czech Academy of Sciences, Vestec**
Imaging Liver: From Regeneration to Pathology
- P-6 Martina Nešpor Dadejová and Michal Franek, CEITEC, Masaryk University, Brno**
Adapting laser microirradiation and time-lapse imaging for in vivo analysis of DNA repair in plants
- P-7 Tomáš Groušl, Institute of Microbiology of the Czech Academy of Sciences, Prague**
Super-resolved yeast as a model of protein aggregation
- P-8 Daniel Hadraba, BioImaging Facility, Institute of Physiology of the Czech Academy of Sciences, Prague**
IPHYS Bioimaging facility and new hardware
- P-9 Iveta Haraštová, Institute of Scientific Instruments of the Czech Academy of Sciences, Brno**
¹H MRS reveals depression model, and chronic and acute pharmacological manipulation effects on the rat brain neurochemical profile
- P-10 Amir Hashemi, Brno University of Technology, Brno**
Imaging-Guided Evaluation of Metal Oxide Nanoparticle-Enhanced Scaffolds for Bone Regeneration
- P-11 Anna Havlíčková, Institute of Scientific Instruments of the Czech Academy of Sciences, Brno,**

Electron Microscopy of Cryo-Fixed *Azotobacter vinelandii* Encapsulated in Alginate Hydrogel: Effects of Crosslinking Agents

- P-12 Piotr Jurkiewicz, BIOCEV, Faculty of Science, Charles University, Vestec**
How Do Lipid Membranes Freeze? Cryogenic Fluorescence Lifetime Sensing of Membrane Structure
- P-13 Aneta Křížová, CEITEC, Brno University of Technology, Brno**
Diffraction Limits in Quantitative Phase Imaging
- P-14 Petra Kubišová, Telight Brno s.r.o.**
From Light to Life Through Quantitative Phase Imaging
- P-15 Ajay Modi, Faculty of Medicine, Masaryk University, Brno,**
Diffusion Kurtosis Imaging Detects Early Microstructural Changes in a Novel Intranasal Rotenone-Induced Parkinson's Disease Mouse Model
- P-16 Pavla Molínová, Institute of Molecular Genetics of the Czech Academy of Sciences, Prague**
IMG Electron Microscopy Core Facility
- P-17 Jiří Navrátil, Faculty of Medicine, Masaryk University, Brno**
BioSilk 3D Invasivity Assay: Caveolin-1 Influences Invasion of Prostate Cancer Cells
- P-18 Kateřina Malínská, Institute of Experimental Botany of the Czech Academy of Sciences, Prague**
Plant paparazzi - Multi-modal Light Microscopy of Plant Samples
- P-19 Ivan Novotny, Institute of Molecular Genetics of the Czech Academy of Sciences, Prague**
New Light Microscopy Technologies at IMG: Expanding Capabilities for Bioimaging Research
- P-20 Dominik Pinkas, Institute of Molecular Genetics of the Czech Academy of Sciences, Prague**
Solutions for preparation and visualization of vitrified biological samples at IMG Electron Microscopy Core Facility
- P-21 Šárka Podlahová, Biology Centre of the Czech Academy of Sciences, České Budějovice**
Comparative MicroCT Analysis of Silk Gland Morphology in Lepidopteran Caterpillars
- P-22 Daniela Popelková, BIOCEV, Faculty of Science, Charles University, Vestec**
Imaging Liver: From Regeneration to Pathology
- P-23 Petra Prokšová, BIOCEV, Faculty of Science, Charles University, Vestec**
Optical microscopy at Imaging Methods Core Facility BIOCEV
- P-24 Lenka Rouhová, Biology Centre of the Czech Academy of Sciences, České Budějovice**
Use of ultrastructural expansion microscopy to determine the number of cells in the corpora allata of *Aedes aegypti*

- P-25 Ivo Šauman, Biology Centre of the Czech Academy of Sciences, České Budějovice**
A Macrocope in the Microscopy Facility: To Be or Not to Be?
- P-26 Hana Sehadová, Biology Centre of the Czech Academy of Sciences, České Budějovice**
Introducing the Laboratory of Microscopy and Histology, Biology Centre CAS, the Czech-BioImaging research infrastructure observer
- P-27 Henrieta Škovierová, Biomedical Centre Martin, Jessenius Faculty of Medicine in Martin, Comenius University in Bratislava, Martin, Slovakia**
From Waste to Healing: Unlocking the Regenerative Ability of Extracted Teeth
- P-28 František Špoutil, Institute of Molecular Genetics of the Czech Academy of Sciences, Prague**
Preclinical in-vivo imaging at CCP
- P-29 Tereza Švestková, CEITEC, Masaryk University, Brno**
Evaluation of feature selection for classification of BOLD signal and artifacts in fMRI data
- P-30 Nikol Volfová, First Faculty of Medicine, Charles University, Prague**
Analysis of mitochondrial ultrastructure and morphology of mitochondrial cristae in relation to the type of mitochondrial dysfunction