

POSTER SESSION

Thursday, 1 October 2026, 10:15 – 11:10

- P-1 Multiple Flavors of FLIM in One Package**
Aleš Benda, Faculty of Science, Charles University
- P-2 Navigating imaging challenges: case studies from a light microscopy core facility**
Matea Brezak. Masaryk University, CEITEC
- P-3 Development and validation of a deep learning-based pipeline for quantification of neurodegeneration from 3D images of whole-mount *Drosophila melanogaster* brains**
David Erbert
- P-4 Label-free metabolic study on venom-induced paralysis in insect host**
Daniel Hadraba, Institute of Physiology of the Czech Academy of Sciences
- P-5 MINDR: Multimodal Imaging & Data Repository**
Jan Fousek, Masaryk University
- P-6 From viruses to tissues: low-voltage electron microscopy across biological systems**
Vendula Hrabalová, Delong Instruments, a.s.
- P-7 High-Resolution Hyperspectral Microscopy for Efficient Analysis of Biological Systems**
Kamila Hrubanová, Institute of Scientific Instruments of the Czech Academy of Sciences

- P-8 Beyond phenotyping: Functional and in- situ imaging with X-ray microCT**
Markéta Kaiser, CEITEC Brno University of Technology
- P-9 What information can we extract from microscopic data – Anatomical parameters and mesophyll conductance of leaves of plants inhabiting wide range of altitudes**
Martin Král, Biology Centre of the Czech Academy of Sciences
- P-10 Advancing Life Science Research: Quantitative and Comprehensive Imaging Solutions at the CEITEC Biophotonics Core Facility**
Aneta Křížová, CEITEC Brno University of Technology
- P-11 Advanced cryo-workflows at the IMG Electron Microscopy Core Facility**
Pavla Molínová, Institute of Molecular Genetics of the Czech Academy of Sciences
- P-12 Accelerating 3D Modelling of Lepidopteran Silk Glands Using Interactive AI-Assisted Segmentation**
Šárka Podlahová, Biology Centre of the Czech Academy of Sciences
- P-13 Optical microscopy at Imaging Methods Core Facility BIOCEV**
Petra Prokšová, Faculty of Science, Charles University
- P-14 IMG Electron Microscopy Core Facility**
Aneta Przybeková, Institute of Molecular Genetics of the Czech Academy of Sciences
- P-15 A GO@Au@Carborane Hybrid Framework as an Advanced Boron Theranostic Nanoplatfrom for Targeted Delivery**
Václav Ranc, Institute of Molecular and Translational Medicine, Palacký University Olomouc
- P-16 RNA-FISH using RNAscope™ system – benefits and limitations**
Lenka Rouhová, Biology Centre of the Czech Academy of Sciences
- P-17 Current research projects requiring the expertise and technical support of the Light Microscopy Core Facility, Biology Centre CAS**
Hana Sehadová, Biology Centre of the Czech Academy of Sciences

- P-18 Scaling Expertise Across Europe: Measuring the Impact of the EVOLVE Training Framework**
Markéta Schmidt Černohorská, University of Jan Evangelista in Ústí nad Labem
- P-19 3D visualization of individual muscle fibers using Cryogenic contrast-enhanced microCT**
Petr Sysel, CEITEC Brno University of Technology
- P-20 Label-Free Multimodal Imaging of Living Samples: Brillouin, SHG and CARS**
Šimon Vrana, Institute of Physiology of the Czech Academy of Sciences
- P-21 Count-Aware Slot-Based Instance Segmentation of Human Embryonic Cells with Elliptical Representation**
Martin Čapek, Institute of Molecular Genetics of the Czech Academy of Sciences
- P-22 Cell wall biomechanical properties of *Physcomitrium patens* EXPANSIN mutants**
Vít Řezáč, Masaryk University
- P-23 Histological and immunohistochemical analysis of structural and chemical changes in the silk produced by the silk glands of the Mediterranean flour moth, *Ephestia kuehniella***
Ivo Šauman, Biology Centre of the Czech Academy of Sciences
- P-24 Volume Electron Microscopy Methods for Investigating Nitrogen Handling and Cellular Vision in Microscopic Algae**
Jiří Mikšátko, Faculty of Science, Charles University, BIOCEV