CZECH BIOIMAGING

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 Nanoplatform 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

P-25 **Plant Paparazzi - Multi-modal Light Microscopy of Plant Samples**
Kateřina Malínská, Institute of Experimental Botany of the Czech Academy of Sciences