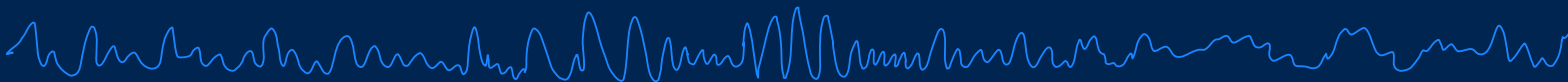
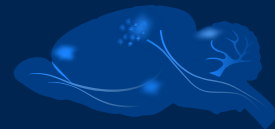




INSIDE THE LIVING BRAIN:



A MULTIMODAL WORKSHOP



9:00 – 9:15	Welcome
9:15 – 10:30	Talks - block 1
10:30 – 11:00	Coffee break
11:00 – 12:30	Talks - block 2
12:30 – 13:30	Lunch
13:30 – 14:45	Talks - block 3
14:45 – 15:15	Coffee break
15:30 – 16:30	Facility visit, networking



INSIDE THE LIVING BRAIN: A MULTIMODAL WORKSHOP

9:15 – 10:30 Block 1

9:15 - 9:30

1H single voxel spectroscopy in MDD rodent models

Iveta Harašťová

Institute of Scientific Instruments, Czech Academy of Sciences, Czechia - Brno

9:30 – 9:45

Between diffusion and perfusion

Jiří Kratochvíla

Institute of Scientific Instruments, Czech Academy of Sciences, Czechia - Brno

9:45 – 10:00

Mini-invasive endomicroscopy in vivo – functional and structural imaging in the brain of mouse models

Hana Uhlířová

Institute of Scientific Instruments, Czech Academy of Sciences, Czechia - Brno

10:00 – 10:15

Behavioral pharmacology and animal models of neuropsychiatric disorders

Jana Rudá

Faculty of Medicine, Masaryk University, Czechia - Brno

10:15 – 10:30

Nicotinic acetylcholine receptors in the control of ASD-associated behavior

Helena Janíčková

Institute of Physiology, Czech Academy of Sciences, Czechia - Prague



10:30 - 11:00 Coffee break



INSIDE THE LIVING BRAIN: A MULTIMODAL WORKSHOP

11:00 – 12:30 Block 2

11:00 – 11:15

Opportunities by Euro-BioImaging

Johanna Bischof

Euro-BioImaging Bio-Hub, Germany - Heidelberg

11:15 – 11:30

Opportunities by Czech-BioImaging

Czech-BioImaging hub team

Czech-BioImaging hub, Czechia - Prague

11:30 – 11:45

Establishing a multiphoton imaging service at IEM CAS

Štěpán Kortus

Institute of Experimental Medicine, Czech Academy of Sciences, Czechia - Prague

11:45 – 12:00

Multimodal in vivo assessment of pericyte-tumor interactions in a mouse model of glioblastoma

Ondřej Vaňátko

Institute of Experimental Medicine, Czech Academy of Sciences, Czechia - Prague

12:00 – 12:15

Establishing a long-term in vivo spinal window imaging model

Kristýna Kárová

Institute of Experimental Medicine, Czech Academy of Sciences, Czechia - Prague

12:15 – 12:30

Optical miniscopes for in vivo imaging in moving animals

Daniel Hadraba

Institute of Physiology, Czech Academy of Sciences, Czechia - Prague



12:30 - 13:30 Lunch



ISI CAS, Brno, 3 December 2025

INSIDE THE LIVING BRAIN: A MULTIMODAL WORKSHOP

13:30 – 14:45 Block 3

13:30 – 13:45

The Clinical approach to epilepsy surgery

Irena Doležalová

St. Anne's University Hospital Brno

13:45 – 14:00

Murine models of epilepsy due to focal cortical dysplasia type II

Přemysl Jiruška

Epilepsy Research Centre Prague, Czechia - Prague

14:00 – 14:15

Neuroelectrophysiology: study options at the cellular and tissue level

Markéta Bébarová

Faculty of Medicine, Masaryk University, Czechia - Brno

14:15 – 14:30

High throughput genetic mouse models screening

Marcel Bochin

National Institute of Mental Health, Czechia - Klecany

14:30 – 14:45

GPCR-Mediated Optogenetic Neuromodulation in Porcine Model of Epilepsy

Filip Mívald

Mayo Clinic, United States, Minnesota - Rochester



14:45 - 15:15 Coffee break



15:30 - 16:30

Tour de facility

Networking



ISI CAS, Brno, 3 December 2025