

From Animal Handling to Data: Imaging Facilities in Preclinical Research 2026

Program

Time	Day 1, Tuesday 8.9.2026
8:30	Registration and coffee
9:00	Opening and practical information
	Session I - Available services for intravital imaging
9:10	Aneta Rybová: Phenotyping of Energy Metabolism Service department of IPHYS
9:20	Eva Dražanová: Magnetic Resonance Group at the Institute of Scientific Instruments
9:30	Luděk Šefc: Multimodal in vivo Preclinical Imaging in CAPI, Prague
9:40	Daniel Hadraba: Bio-Imaging Facility of IPHYS
9:50	Štěpán Kortus: Service Laboratory of Intravital Imaging at IEM.
10:00	Hellen Ishikawa-Ankerhold, Štěpán Kortus: Introducing the GerBI IVMIC Team.
10:10	Coffee break
	Session II - Methods for intravital imaging
10.30	Aleš Benda: The Basics of Multi-photon Microscopy
10.50	Viktoria Kiss (Femtonics): Acousto-optical Solution for Neuroscience
11.20	Štěpán Kortus: 3P Microscopy - To See Deeper
11:40	Ondřej Macíček: DCE-MRI: Principles, Fundamentals, and Modern Methods
12:00	Petr Páral: Ultrasound and Photoacoustics for Preclinical In Vivo Imaging
12.20	Marek Baxa (Animal Lab): Partner in Preclinical Research
12.30	Lunch
	Session III - Practical and legal aspects of using animals for intravital imaging
13.20	Daniel Hadraba: Experimental Design for Reproducibility in Preclinical Imaging

13.50	Eva Dražanová: Ethics, Regulation & the 3Rs in Facility-based Imaging Experiment
14.15	Viktoria Kiss (Femtonics): Building the Window: Surgical Approaches for Two-Photon Imaging
14.50	Short coffee break
	Invited speakers
15:00	Liam Shields: Imaging Glioblastoma: Insights from Our Preclinical Research
15:30	Hellen Ishikawa-Ankerhold: Platelets in Motion: Intravital Imaging of Biogenesis, Migration, and Immune Function
16.00	Coffee break
	Session IV - Application/project talks
16:20	Martin Hlaváč (SvenBiolabs): Evident FLUOVIEW FV5000MPE - The Advantage of Fiber Coupled Lasers for Multi-photon Microscopy
16.35	Ondřej Vaňátko: Correlative 2P and MR Imaging of Glioblastoma
16.50	Kristýna Kárová: Establishing a Long-term in vivo Spinal Window Imaging Model
18.00	Dinner

Day 2, Wednesday 9. 9. 2026	9:00-11:30	12:30-15:00
Group 1	2P microscopy (Atlas)	Anesthesia/ experimental design
Group 2	2P microscopy (Bruker)	
Group 3	Anesthesia/ experimental design	2P microscopy (Atlas)
Group 4		2P microscopy (Bruker)

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