


# DIAGNOSTIC TOOLS FOR IMAGING ANIMAL MODELS

- IN VIVO IMAGING OF NEURONAL ACTIVITY
  - IN VIVO IMAGING OF BRAIN BLOOD PERFUSION
  - HOLOGRAPHIC ENDOSCOPY
  - ANIMAL MODELS FOR IN VIVO IMAGING
  - FUTURE AND VISIONS OF ANIMAL MICROSCOPY
  - SUPER-RESOLUTION MICROSCOPY OF MITOCHONDRIA AND LEUCOCYTES
- 

**1.12.2021 • 9:00**

**KINOSÁL FGU • VÍDEŇSKÁ 1083 • PRAGUE**





# DIAGNOSTIC TOOLS FOR IMAGING ANIMAL MODELS

9:00–9:30 Opening talk  
*Jakub Otáhal*

9:30–11:00 Cranial window and optophysiology to decipher pathological circuits in highly realistic model of child epilepsy  
*Ondřej Novák*

Insight into glioblastoma multiforme  
*Salome Kylarova*

11:00–11:15 Coffee break

11:15–12:45 Deposition of tracers in mice cerebral vasculature  
*Jan Svoboda*

Complex media photonics  
*Tomáš Čížmár*

12:45–13:30 Lunch break

13:30–15:00 Holographic endoscopy: principles and technology  
*Hana Uhlířová*

Holographic endoscopy: applications in neuroscience and beyond  
*Petra Ondráčková*

15:00–15:15 Coffee break

15:15–16:45 Diabetic research: Understanding of pancreatic  $\beta$  cell function by islet imaging  
*Lydie Plecítá*

Imaging the immune system  
*Miroslav Hons*

16:45–17:15 Insight to the mystery of digital twins  
*Daniel Hadraba and his guests*

