



Welcome to the Symposium On Advanced Preclinical Imaging: High Speed Multiphoton Imaging of Dynamic Processes *In Vivo*

Date: 12th March 2025

Place: Lecture hall P224, NPQ-huset, Svante Arrhenius väg 20, **Stockholm University**.
The main entrance is on the south side of the building.

Program

- 09:30- 10:15 **Nikita Mikhailov, PhD (Femtonics): High-Speed Acousto-Optic Scanning in Optical Imaging.** Foundations of advanced scanning technologies enabling rapid, precise imaging.
- 10:15- 11:00 **Štěpan Kortus, PhD (Institute of Experimental Medicine, Czech Academy of Sciences, Prague): Applications of Multiphoton Microscopy in Biomedical Research.** Insights into leveraging 3D random-access imaging from a research infrastructure's perspective.
- 11:00-11:15 **Coffee break**
- 11:15- 12:00 **Michael Lin, PhD, Prof (Wu Tsai Neurosciences Institute, Stanford University) Case Study: Tba.** Voltage Imaging with Genetically Encoded Indicators. Zoom lecture
- 12:00-12:45 **Lunch break**
- 12:45-13:30 **tba: Data Analysis for High-Speed Optical Imaging.** Strategies and pipelines for analyzing large-scale, dynamic datasets acquired with advanced imaging tools.
- 13:45-17:00 **Demonstration: Live Imaging with the FEMTO3D Atlas Microscope.** Real-time neuronal activity imaging using a mouse model with genetically encoded calcium indicators. **Group-wise visit to IVMSU***

For registration, please email to: IVMSU@su.se

Deadline: 3rd March 2025

*Please indicate if you like to attend the demonstration. Change into sterilized clothes is required for entering IVMSU. Please indicate if special clothing sizes are required. Extra sizes can be ordered if necessary.