

Multidimensional and Analytical Electron Microscopy for Life Scientists

March 3 - 7, 2025

Institute of Molecular Genetics of the Czech Academy of Sciences

PRACTICAL COURSE



- Experience electron microscopy in various flavours in one week
- Get a complex picture of the state-of-the-art approaches for life sciences
- Highly experienced tutors from the core facility and microscopy companies

Dear Colleagues,

We would like to invite you to the 5-day theoretical and practical course " [Multidimensional and Analytical Electron Microscopy for Life Scientists](#) ".

The course is designed for **users of electron microscopes** in biomedical field, both from **scientific laboratories** and from **core facilities**. The aim of the course is to provide an orientation to basic and advanced techniques in biomedical electron microscopy in an **application-oriented manner**. **Sample preparation** under room temperature and **cryo** conditions will be covered, including special workflows such as **cryo-sectioning, freeze-fracture replica, or cryo-CLEM workflow** on **FIB-milled lamella**. Besides basic imaging, special techniques such as **(cryo)FIB-SEM, STEM tomography and EDS** analysis will be demonstrated, with **introduction to data processing and interpretation**. Special emphasis will be placed on discussing **how to choose the appropriate methodology** for a specific scientific project. The course will be taught **in English**.

The course will be held at the Institute of Molecular Genetics ASCR in Prague on 3rd – 7th March 2025. Favorable registration fees are set due to the support by the Czech-BioImaging.

The registration deadline is February 10, 2025.

We look forward to your participation!

On behalf of the organizers,
Vlada Filimonenko

<https://course.img.cas.cz/memls/>

