

Dear Colleagues,

the Institute of Molecular Genetics of the Czech Academy of Sciences would like to invite you to the 5-day course "**Processing and analysis of microscopic images in biomedicine (PAMIB23)**" intended for PhD students and junior researchers.

The course will cover the basics in image data acquisition, processing and analysis including methods of stereology. Apart from a theoretical background, the emphasis will be put on practical experience. The participants will learn how to use free software package **Fiji** (<http://fiji.sc/>) for basic or more advanced analyses, how to evaluate co-localizations, analyse data from FRAP and electron microscopy data, how to track particles in images or segment objects, methods of artificial intelligence for image segmentation will be presented as well. They will learn how to improve data by deconvolution in **Huygens** (<http://svi.nl/>) software. We will have a lesson with **Imaris** (<https://imaris.oxinst.com/>) software together with practical exercises. Stand-alone practical tasks using Fiji and Huygens will be an important part of the course as well.

The course will be held at the Institute of Molecular Genetics of the CAS in Prague in **April 17-21, 2023**.

For more information and link to the registration form, please, visit the course website (<https://course.img.cas.cz/pamib/>). **The registration deadline is April 3, 2023.**

The course follows the **Microscopy methods in biomedicine** (<https://course.img.cas.cz/mmib/>), the previous attendance of this course, however, is not necessary.

The course will be taught in English.

On behalf of the organizers,

Michaela Blažíková and Martin Čapek



IMARIS