MIC training: **Fiji fundamentals**

Date:	February 15-16, 2021
Time:	9 am – 5 pm
Location:	Online in Zoom, using this meeting link.
Trainer:	Dr. Guillaume Witz, ScITS-MIC, Dr. Yury Belyaev, MIC, University of Bern (CH).
Organizer:	Dr. G. Witz, ScITS-MIC (www.scits.unibe.ch), Dr. Y. Belyaev (www.mic.unibe.ch) of the University of Bern. Supported by the PhD specialization Cutting Edge Microscopy.
Number of participants:	Minimum 10, maximum 25.
Registration:	until February 8, 2021, online here
Target audience:	Master, bachelor, PhD students and postdocs who plans to use FIJI for the presentation and analysis of own data. No previous knowledge of FIJI required.
Credits:	Certificate of attendance. The 1 ECTS can be awarded to CEM students after giving a presentation about the application of the course material in the participant research.
Background:	FIJI (https://imagej.net/Fiji) is a freeware image-processing package widely used in Academia for the analysis of multidimensional microscopy datasets.
Content:	Fundamentals of FIJI, see program below.
Learning outcome:	Participants will be able to use basic features of FIJI and write simple macros.
Schedule:	See next page.

FIJI fundamentals, February 15-16, 2021

Schedule

Time	Day 1, 15.02.21	Day 2, 16.02.21
9:00-12:00	Opening, converting, and saving images Intensities: values, histogram, and saturation Adjusting images: LUT, brightness/contrast Multiple dimensions: stacks, channels, time Annotating images Y. Belyaev, MIC	Setting up measurements Intensity profile Filtering of images Background subtraction Projections, z-axis profiles Managing ROIs Segmentation Y. Belyaev, MIC
12:00-13:30	Lunch	Lunch
13:30-17:00	Watching educational videos Exercising FIJI basics features Work with own or demo images Independent work of participants	Batch analysis in ImageJ Essentials of ImageJ macro programming Practice macro programming G.Witz SciITS-MIC