UNIVERSITÄT BERN

## MIC training: Writing your own ImageJ/Fiji macros

**Date:** December 7, 2022

**Time:** 9 am – 5 pm

**Location:** Hauptgebäude, room 331, Hochschulstrasse 4, 3012 Bern.

**Trainer:** Dr. G. Witz, DSL and MIC, University of Bern (CH)

**Organizers:** Dr. Y. Belyaev, MIC of the University of Bern (www.mic.unibe.ch).
Dr. G. Witz, DSL and MIC, University of Bern (www.dsl.unibe.ch).
Supported by the PhD specialization Cutting Edge Microscopy.

**Number of participants:** Minimum 10, maximum 24.

**Registration:** until December 7, 2022, online here.

**Target audience:** PhD students, postdocs, PIs who require the automation of their image processing tasks for analysis of microscopy data.
**Participants should have basic knowledge of ImageJ/FIJI and some experience of using it. Those without such experience should either read the Introduction to Bioimage Analysis by Pete Bankhead or follow the online EPFL MOOC course Image Processing and Analysis for Life Scientists.**

**Credits:** Certificate of attendance.
On request, PhD students of the Cutting Edge Microscopy program can obtain 0.5 ECTS for this course with presenting the learning outcome in the context of his/her project at a separate meeting.

**Background:** FIJI (https://imagej.net/Fiji) is a freeware image-processing package widely used in Academia for the analysis of 3D and 4D microscopy datasets. Macro writing allows automation of repetitive tasks, sharing of common procedures and documentation of processing workflows.

**Content:** Basics of ImageJ/FIJI macro programming language: variables, functions, loops, file handling etc. FIJI script editor. Work on own data sets.

**Learning outcome:** Participants will be able to write basic ImageJ/FIJI macros for the automation of their image analysis protocols.

**Schedule:**

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| 9:00-12:00 | Essentials of ImageJ macro programming |
| 12:00-13:30 | Lunch |
| 13:30-16:30 | Practice macro programming, work with your own data. |