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**UNIVERSITÄT
BERN**

MIC training:

Fiji fundamentals

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| Date: | January 18-19, 2022 |
| Time: | 9 am – 5 pm |
| Location: | University of Bern, Unitobler, Lerchenweg 36, room F -123, 3000 Bern. |
| Trainers: | Dr. Guillaume Witz, ScITS-MIC, Dr. Yury Belyaev, MIC, University of Bern (CH). |
| Organizers: | 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 20. |
| Registration: | until January 20, 2022, 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. |

MIC training: FIJI fundamentals

January 18-19, 2022

Schedule

| Time | Day 1, Tuesday 18.01.22 | Day 2, Wednesday 19.01.22 |
|-------------|---|---|
| 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 ScilTS-MIC |