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MIC training: Analysis on microscopy images with CellProfiler

Date: October 29, 2021.

Time: 9 am – 5 pm.

Location: University of Bern, Mittelstrasse 43, room 120, 3012 Bern.

Trainer: Olivier Burri, EPFL, Lausanne (CH).

Organizers: Dr. Guillaume Witz, [SciTS-MIC](#) of the University of Bern;
Dr. Yury Belyaev, [MIC](#) of the University of Bern.
Supported by the PhD specialization Cutting Edge Microscopy.

Number of participants: Minimum 10, maximum 25.

Registration: until October 25, 2021 [here](#).

Target audience: PhD students, postdocs, and everyone who needs analysis of microscopy images on single cell level in their research. Participants of Cutting Edge Microscopy specialization program are particularly invited.

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

Background: CellProfiler (<https://cellprofiler.org>) is free, open-source software for quantitative analysis of biological images. No prior experience in programming or computer vision is required.

Content: High content screening workflow; image processing: image enhancement, cell segmentation, feature extraction. Basic and advanced features of CellProfiler. Work with own data sets.

Learning outcome: Participants will learn how to use CellProfiler for analysis of biological images.

Schedule:

Time	Friday 29.10.2021
9:00-12:00	Introduction to basics features of CellProfiler O. Burri, EPFL, Lausanne
12:00-13:30	Lunch
13:30-17:00	Introduction to advanced features of CellProfiler. Introduction to Cell Profiler Analyst. Work with own microscope images. O. Burri, EPFL, Lausanne