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MIC training: Analysis on microscopy images with CellProfiler

- Date:** November 8, 2019
- Time:** 9 am – 5 pm
- Location:** University of Bern, Lerchenweg 36, room F-112
- Trainers:** Dr. Romain Guet, EPFL, Lausanne (CH)
Dr. Maciej Dobrzynski, University of Bern (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:** Maximum 25
- Registration:** until November 1, 2019, [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.
CEM PhD students can gain 0.5 ECTS by giving a presentation on application of course learning outcome. The date of presentation will be agreed on mutually.
- Background:** CellProfiler (https://cellprofiler.org/getting_started/) is free, open-source software for quantitative analysis of biological images. No prior experience in programming is required, although some basic knowledge of image analysis is advisable.
- 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, 08.11.2019
9:00-12:00	Introduction to basics features of CellProfiler R. Guet, EPFL, Lausanne
12:00-13:30	Lunch
13:30-17:00	Introduction to advanced features of CellProfiler. Introduction to CellProfiler Analyst. Work with own microscope images. R. Guet, EPFL, Lausanne M. Dobrzynski, Uni Bern