UNIVERSITÄT BERN

MIC training: Fundamentals of wide field microscopy

Date:	May 19-21, 2026.
Time:	9 am – 5 pm.
Location:	Institute of Cell Biology, room C159/C161, Baltzerstr. 4, 3012 Bern.
Trainers:	Dr. Julien Toquant, Zeiss, Jena (DE); Dr. Mathias Pasche, Photometrics, Birmingham (UK); Dr. Michael Sommerauer, AHF, Tubingen (DE); Dr. Laure Plantard, FMI, Basel (CH); Dr. Ana Stojiljkovic, MIC-DSL, Lucien Hinderling, Alex Landolt, ICB, Dr. Yury Belyaev, MIC, University of Bern (CH).
Organizer:	Dr. Y. Belyaev, MIC of the University of Bern (www.mic.unibe.ch). Supported by the PhD specialization Cutting Edge Microscopy.
Number of participants:	Maximum 20 (lectures), 15 (hands-on).
Registration:	until May 5, 2026 here.
Target audience:	PhD students, postdocs, and everyone who needs wide field microscopy 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 1.5 ECTS upon presenting the learning outcome in the context of their project at a separate meeting.
Content:	Basics of wide field microscopy. Basics of fluorescence. Filters and light sources. Digital cameras and digital imaging. Basics of image visualisation and processing of wide field images. Deconvolution.
Learning outcome:	Participants will learn how to set up and optimally operate wide field microscope and visualize and quantify wide field images.
Course fee:	Free or charge. Cancelation after May 5, 2026 or no show – administrative fee of 100 CHF.
Schedule:	See next page.

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Time	Day 1 Tuesday, 19.05.26	Day 2 Wednesday, 20.05.26	Day 3 Thursday, 21.05.26
9:00-12:00	Lecture Basics of wide field microscopy L. Plantard, FMI	Lectures Basics of fluorescence Y. Belyaev, MIC Filters and light sources M. Sommerauer, AHF Digital cameras M. Pasche, Photometrics	Hands-on Visualisation and analysis of wide field images with FIJI A. Stojiljkovic, MIC-DSL
12:00-13:30	Lunch	Lunch	Lunch
13:30-17:00	Hands-on Setting up microscope for wide field imaging L. Plantard, FMI J. Toquant, Zeiss Y. Belyaev, MIC	Hands-on Digital imaging M. Pasche, Photometrics Filters for fluorescence M. Sommerauer, AHF Multicolour fluorescence imaging A. Landolt, ICB L. Hinderling, ICB	Lecture/Hands-on Deconvolution microscopy Y. Belyaev, MIC Deconvolution of wide field images with HRM Y. Belyaev, MIC Work with own data using FIJI and HRM A. Stojiljkovic, MIC-DSL Y. Belyaev, MIC