UNIVERSITÄT BERN

MIC training: Fundamentals of confocal microscopy

Date:	September 15-17, 2026.
Time:	9 am – 5 pm.
Location:	Institute of Cell Biology, room C159, Baltzerstr. 4, 3012 Bern.
Trainers:	Dr. Christine Strasser, Zeiss, Feldbach (CH); Dr. Sabine Reither, FMI, Basel (CH); Dr. Michael Jaeger, IAP, Dr. Tin Manh Ho, DBMR, Prof. Dr. Mattia Aime, Physiology, Dr. Mykhailo Vladymyrov, DSL, Dr. Yury Belyaev, MIC, Dr. Guillaume Witz, DSL-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 September 1, 2026 here.
Target audience:	PhD students, postdocs, and everyone who needs confocal 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 confocal, spinning disk and 2P microscopy. Lasers. Live cell imaging. Fundamentals of image visualisation and processing of confocal images. Deconvolution.
Learning outcome:	Participants will learn how to set up and optimally operate confocal microscopes and visualize and quantify confocal images.
Course fee:	Free or charge. Cancelation after September 1, 2026, or no show – administrative fee of 100 CHF.
Schedule:	See next page.

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Time	Day 1 Tuesday, 15.09.26	Day 2 Wednesday, 16.09.26	Day 3 Thursday, 17.09.26
9:00-12:00	Lectures Basics of confocal microscopy C. Strasser, Zeiss Lasers M. Jaeger, IAP	Lectures Spinning disk Y. Belyaev, MIC 2P microscopy applications M. Aime, Physiology Live cell imaging S. Reither, FMI	Hands-on Visualisation and analysis of confocal images with Napari G. Witz, MIC-DSL
12:00-13:30	Lunch	Lunch	Lunch
13:30-17:00	Hands-on Setting up microscope for confocal imaging T. Ho, DBMR C. Strasser, Zeiss Y. Belyaev, MIC	Hands-on Live cell imaging with confocal T. Ho, DBMR 2P microscopy M. Vladymyrov, DSL Spinning disk Y. Belyaev, MIC	Lecture/Hands-on Deconvolution microscopy Y. Belyaev, MIC Deconvolution of confocal images with HRM Y. Belyaev, MIC Work with own data using Napari and HRM G. Witz, MIC-DSL Y. Belyaev, MIC