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UNIVERSITÄT
BERN

MIC training:	Bioimage analysis with QuPath
Date:	December 14, 2023.
Time:	9 am – 5 pm.
Location:	Hauptgebäude, Hochschulstrasse 4, room 331, 3012 Bern.
Trainers:	Olivier Burri, EPFL, Lausanne (CH) Dr. Ewelina Bartoszek-Kandler, University of Basel (CH)
Organizers:	MIC of the University of Bern (www.mic.unibe.ch). Dr. Guillaume Witz, DSL and MIC, University of Bern (CH) Dr. Yury Belyaev, MIC, University of Bern (CH) Supported by the PhD specialization Cutting Edge Microscopy.
Number of participants:	minimum 15, maximum 30.
Registration:	until December 7, 2023, here .
Target audience:	PhD students, postdocs, and everyone who needs image visualisation and measurement 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 for this course with presenting the learning outcome in the context of his/her project at a separate meeting.
Background:	QuPath (https://qupath.github.io/) is an open-source software for bioimage analysis. It offers a powerful set of tools for working with whole slide images and very large images in general but can be used as an image processing tool in general.
Content:	Basic and advanced methods of visualization and analysis using QuPath. Participants are invited to bring their own data sets for testing the presented methods during the training.
Learning outcome:	Participants will learn how to visualize images, annotate objects, create pixel classifiers, segment, and classify objects in order to extract quantitative data and present the results.
Course fee:	Free or charge. Cancellation after December 07, 2023 or no show – administrative fee of 100 CHF.
Schedule:	See next page.

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Time	Day 1 Thursday, 14.12.23
9:00-12:00	Basic functionalities of QuPath. Introduction to batch processing O.Burri, EPFL E. Bartoszek-Kandler, Uni BL
12:00-13:30	Lunch
13:30-17:00	Advanced functionalities of QuPath: Scripting, deep learning tools Work with participants data sets O.Burri, EPFL E. Bartoszek-Kandler, Uni BL