

# Bioimage Analysis for Quantitative Microscopy

Course program  
30.9-4.10.2024

**Trainers:**  
Hanna Grobe  
Elnaz Fazeli  
Joanna Pylvänäinen  
Sujan Ghimire  
Stéphane Rigaud

\*open to all interested

**Locations:**  
Auditorium Biokemi,  
Biocity 3<sup>rd</sup> floor  
Auditorium Biologi,  
Biocity 2<sup>nd</sup> floor  
Putous Auditorium, Joki  
Conference Center

	Mon	Tue	Wed	Thu	Fri
9:00-10:00	Intro + Fiji Basics Hanna Grobe	DL lecture Joanna Pylvänäinen	QuPath Stéphane Rigaud	TrackMate + CellTracks Colab lecture Joanna Pylvänäinen	
10:00-10:15					Presentation: TBI image data team Pasi Kankaanpää
10:15-10:30	break	break	break	break	Project presentations
10:30-11:45	Fiji Basics Hanna Grobe	DL demo annotation and training Sujan Ghimire	QuPath Stéphane Rigaud	Cell tracking with TrackMate Joanna Pylvänäinen	
12-13	Lunch (at own cost)	Lunch (at own cost)	Lunch (at own cost)	Lunch (at own cost)	Lunch (at own cost)
13:00-13:15	Presentation: Euro-Biolmaging Jiri Funda, Susanne Vainio	Science talk *: Deep Learning in Microscopy Guillaume Jacquemet	Science talk *: Deep Learning in Histopathology Pekka Ruusuvuori	Keynote talk *: How to not lie with charts - better data visualisations for life sciences Helena Jambor	Science talk *: Next-generation file formats, version control, and publishing your data Junel Solis
13:15-14:00	Fiji Macros Elnaz Fazeli				
14:00-15:15		DL demo quality control Joanna Pylvänäinen	QuPath Stéphane Rigaud	Track Analysis using CellTracksColab Hanna Grobe	Work with your own data
15:15-15:30	break	break	break	break	break
15:30-16:45	Fiji Macros Elnaz Fazeli	DL demo apply to own data Joanna Pylvänäinen	QuPath Stéphane Rigaud	GPU accelerated Fiji image processing Stéphane Rigaud	Work with your own data Goodbye and farewell
17:00-21:00				Course dinner in Mauno	