

Cellular Imaging Core Facility  
Ceitec MU

would like to invite you to a course

# Fundamentals of Light Microscopy

The course is intended for students/postdocs/staff who wants to learn about principles of light microscopy. During the course you will learn fundamentals of image formation, principle rules and laws applied in light microscopy, Abbe's resolution, what are principle parts of light microscope and how to properly acquire image using widefield or confocal microscope. Last part is dedicated to basics of image processing and analysis, where you will learn how to properly adjust and analyze your images using various software packages.

Registration fee: 600 CZK academic, 3 000 CZK commercial.

Coffee and refreshment is provided during the course.

## Tuesday, June 13

9:00 - 17:00

Theoretical part - principles of light microscopy, transmitted light microscopy, different contrasting techniques - DIC, dark field, phase contrast, fluorescence, widefield microscopy, optical sectioning methods, confocal microscopy.

## Wednesday, June 14

9:00 - 17:00

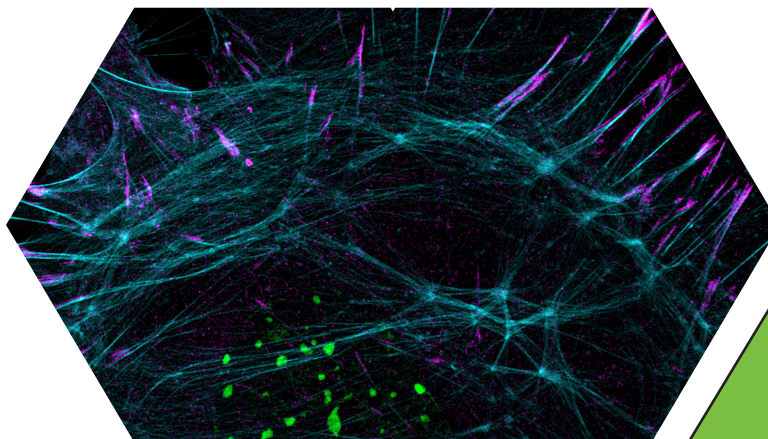
Practical part - image acquisition using different microscopy platforms - widefield and confocal systems.

## Thursday, June 15

9:00 - 17:00

Basics of image processing and analysis using different software packages - ZEN, FIJI, Cell Profiler, IMARIS

Registration here: <https://www.ceitec.eu/fundamentals-of-light-microscopy/a4471>



**START**

June 13, 2023

CELLIM

Building C02