



Course of Histology

(Immunolabeling of paraffin-sections, cryo-sections and cells)

Lecturers: PD Dr. Fabian Blank (DBMR), Dr. Yury Belyaev (MIC), Selina Steiner and Carlos Wotzkow (DBMR Lab Managers), and Martina Dzepic, Biomedical Scientist

Duration: 5 days (from **Monday 30th October to Friday 3th November 2023**)

Location: LCI Core Facility, DBMR, Murtenstrasse 24, Bern, Switzerland

Content: Teaching of basic and advanced technics for histology

Admissions: Minimum 5 students, maximum (exceptionally this year) 10 students

Credits: 2.5 ECTS

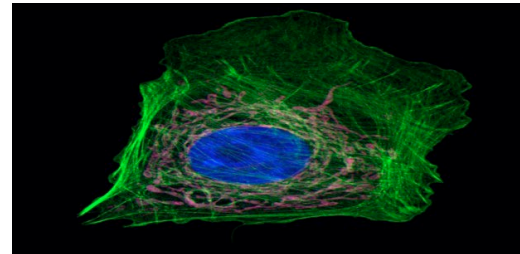
Costs: 500.- CHF, to be reimbursed by the GCB for their PhD students

1. Sample preparation

- Collection
- Fixation
- Embedding
- Sectioning
- Antigen retrieval
- Controls

2. Labelling procedures

- Up to 11 different procedures for antigen retrieval (depending on sample)
- Direct and indirect labeling of antigens (ABs of interest provided by the students)
- Counterstain, mounting, and storage procedures (customized)



3. Specials

- Visualization employing conventional bright field, fluorescence and laser scanning microscopy
- Optimization of protocols, image processing and analysis of results
- Poster preparation and individual evaluation
- Apéro on Friday afternoon

Prerequisites:

MSc Students: Attendance of “Advanced Microscopy” lectures recommended.

PhD Students: preferably within first or second year of their doctorate.

Lab technicians: in need of advanced knowledge in histology.

All participants should provide a brief outline of their needs and current issues they have with histology in their projects.

Important! This course is fully personalized and it will require candidates to contact Carlos Wotzkow to select your untested antibodies before the beginning of the course.

For registration, please contact Carlos Wotzkow: carlos.wotzkow@unibe.ch