Live Cell Imaging Core Facility    Department of BioMedical Research
Microscopy Imaging Center

Course of Histology
(Paraffin, Cryo and Cells Immunolabeling)
Murtenstrasse 24, Bern, Switzerland

Lecturers: PD Dr. Fabian Blank (DBMR), Dr. Yury Belyaev (MIC), Selina Steiner and Carlos Wotzkow (DBMR Lab Managers)
Duration: 5 days (from Monday 24th to Friday 28th October 2022)
Frequency: Once a year
Location: LCI Core Facility, DBMR, Murtenstrasse 24, Bern, Switzerland
Content: Teaching of basic and advanced technics for histology
Admissions: Minimum 4 students, maximum 6
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 Retrievals
   - Controls

2. Labelling procedures
   - Up to 11 different procedures for antigen retrieval (on sample’s demand)
   - 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
   - Apero 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 upon student matriculation so it will require candidates to contact Carlos Wotzkow to select your untested antibodies three weeks before the course starts