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 6th to Friday 10th December 2021)
Frequency: Once a year
Location: LCI Core Facility, DBMR, Murtenstrasse 24, Bern, Switzerland
Content: Teaching of basic and advanced techniques for histology
Admissions: Minimum 4 students, maximum 6
Credits: 2.5 ECTS
Costs: 500.- CHF, may be reimbursed by the Graduate School

1. Sample preparation
   - Collection
   - Fixation
   - Embedding
   - Sectioning
   - Antigen Retrieval
   - Controls

2. Labelling procedures
   - Up to 11 different procedures for antigen retrieval (depending on the nature of the 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

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.