Live Cell Imaging Core Facility    Department of BioMedical Research  
Murtenstrasse 35, 40, 50, Bern, Switzerland

Course of Histology  
(Paraffin, Cryo and Cells Immunolabeling)

Lecturers: PD Dr. Fabian Blank (DBMR), Dr. Yury Belyaev (MIC), Selina Steiner and Carlos Wotzkow (DBMR Lab Managers)  
Duration: 5 days (from Monday, 12. October 2020 to Friday, 16. October 2020)  
Frequency: Once a year  
Location: LCI Core Facility, DBMR, Murtenstrasse 35, 40, 50, 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 preparations  
   - 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 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 us minimum 2 weeks before the chosen date.