

## Workshop

<b>Title:</b>	<b>Course of Histology: Immunolabelling of Paraffin, Cryo-embedded Sections and Fixed Cells</b>
Date, duration:	On demand, 5 days (usually held in November)
Location:	DBMR LCI Core Facility, Murtenstrasse 50, 3008 Bern
Lecturer(s):	PD Dr. phil. Fabian Blank (DBMR) Carlos Wotzkow (DBMR) Selina Steiner (DBMR) Dr. Yury Belyaev (MIC)
Contact:	fabian.blank@unibe.ch
Number of participants:	Max. 6 students
Target audience:	Master and PhD students of the University of Bern. Attendees of the Lecture Series on Advanced Microscopy plus exam (KSL 9256)
Registration:	Send request to Fabian Blank (fabian.blank@unibe.ch)  Applicants for the course are kindly asked to provide a brief outline of their interest in the course (e.g. a project requiring methods performed in the course; problems with a current method/protocol, etc.). Due to limited number of participants, we will not accept requests from students not in real need of those techniques.
KSL:	454901
Reward:	2.5 ECTS
Costs:	CHF 400 per student of the University of Bern. - Other participants, please request quote. - PhD students enrolled in the Graduate School for Cellular and Biomedical Sciences ( <a href="#">GCB</a> ) can apply for refund at the PhD specialization program Cutting Edge Microscopy.
Learning goals:	Opportunities and pitfalls in histological procedures; Handling of required reagents in an optimized economic way.



Description:	Teaching of basics and advanced techniques
	<ol style="list-style-type: none"><li>1. Sample preparation<ol style="list-style-type: none"><li>a. Preparation and fixation of Tissue</li><li>b. Embedding in paraffin</li><li>c. Cutting and mounting of paraffin sections</li></ol></li><li>2. Labeling procedure<ol style="list-style-type: none"><li>a. Permeabilisation, antigen retrieval, blocking</li><li>b. Incubation with antibodies: Direct/Indirect labeling</li><li>c. Counterstaining, mounting of samples, bleaching protection</li></ol></li><li>3. Special<ol style="list-style-type: none"><li>a. Controls for proper tissue processing; controls for proper immunolabeling</li><li>b. Optimized imaging using bright field and fluorescence (conventional/LSM) microscopy</li><li>c. Optimization of labeling protocol for individual experiments</li></ol></li></ol>
Course structure:	Lectures and practical trainings
Assessment:	Poster or oral presentation or exam