Vascular Cell Biology – Practical Course
CTS/KSL 103079

Dates: Spring: April 23 to 27, 2018
Time: whole days (one week)
Organizers/Tutors: Prof. Dr. Britta Engelhardt, Dr. Urban Deutsch, PD Dr. Ruth Lyck
Venue: Theodor Kocher Institute, Freiestrasse 1, 3012 Bern

Course Description:
- Isolation and primary culture of endothelial cells and epithelial cells
- Comparison of endothelial cells and epithelial cells – tight junctions versus adherens junctions
- Phenotypic characterization of primary endothelial and epithelial cell culture – purity etc. – immunofluorescence/FACS
- Functional alterations of endothelial cells and epithelial cells in inflammation: phenotype, permeability, adhesiveness for blood components
- Analysis of vascular development in transgenic mice

Limitations: 6-8 students (with waiting list)
Priority will be given to those students who have selected this course in agreement with their mentor, within the framework of the GCB and have listed it as «mandatory requirement» in their Doctoral Agreement

Credits: 2.0 ECTS
Registration: via CTS/KSL, root no. 103079 (with waiting list)
Registration open from: December 2017
Deadline for registration: Thursday, April 19, 2018
Exam: Written report