

**KSL Nr. 103079-FS2022-0-Vascular Cell Biology
– Practical Course for GCB students**

Dates: April 17 – 21, 2023
Time: full days – full week participation required
Organizers/Tutors: Prof. Dr. Britta Engelhardt, Dr. Urban Deutsch,
Prof. Dr. Ruth Lyck, Dr. Steven Proulx
Venue: Theodor Kocher Institute, Freiestrasse 1, 3012 Bern

Course Description:

The weeklong laboratory course gives a practical and theoretical introduction into methods of vascular cell biology

- Analysis of vascular development by employing transgenic reporter mice
- Isolation and culture of primary vascular and lymphatic endothelial cells
- Phenotypic characterization of primary endothelial cell cultures: detection of contaminating cells etc. by immunofluorescence stainings and analysis by fluorescence microscopy and flow cytometry
- Determining functional alterations of endothelial cells in inflammation: phenotype, vascular permeability and adhesiveness for blood components *in vitro* and *in vivo*

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 active waiting list)

Registration Deadline: **Thursday, March 9, 2023**

Exam: Oral discussion on last day and written report