Vascular Cell Biology – Practical Course for GCB students
KSL Root Nr. 103079

Dates: 17. 5. 2020 – 21. 5. 2020
Time: full days – full week participation required
Organizers/Tutors: Prof. Dr. Britta Engelhardt, Dr. Urban Deutsch, PD 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 students (with waiting list)
Priority will be given to those students who have selected this course in agreement with their mentor

Prerequisites:
1. Must be listed it as «Mandatory» in student’s Doctoral Agreement
2. Supervisor’s signature on Confirmation form (available from info@gcb.unibe.ch) confirming all course costs will be paid by Supervisor’s institution in the case of late (too late to fill with wait-listed student) cancelation or no-show

Credits: 2.0 ECTS
Registration: KSL
Deadline for registration: April 16, 2021
Exam: Oral discussion on last day and written report