

Vascular inflammation and thrombosis

Organizers: Dr R Koenen (Biochemistry) & Dr M Donners (Pathology)

Content:

Cardiovascular research is increasingly developing into a multidisciplinary effort, and true breakthrough science is often positioned at the interface of two flanking research fields. This PhD course focuses on technologies frequently used in basic vascular biology research. This course will help to increase the PhD student's horizon, not only to understand basic concepts and techniques (in vitro and in vivo) in vascular inflammation and thrombosis research, but also to get hand-on experience with the technologies. Besides practical workshops, students will prepare a group assignment to explore the options to employ such knowledge to the benefit of ongoing research efforts of the PhD student.

At the end, the student will not only be acquainted with available facilities and technologies in our atherothrombosis cluster (e.g. primary cell isolations, extracellular vesicle analyses, high content analysis functional screenings, flow chamber studies, impedance measurements, animal models, atherosclerotic lesion analysis using conventional and sophisticated imaging techniques etc), but also know how to implement this technology in their current research.