Contact Information

The Vascular Biology Center Office and laboratories are located on the 14th floor of the Phillips-Wangensteen Building on the Medical School campus.

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WE STRONGLY ENCOURAGE APPLICATIONS FROM MINORITIES

Website:
www.vbc.umn.edu

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Mission
To conduct cutting-edge, world-leading research, and to translate new insights into new therapies for patients with vascular disease.
What are Vascular Diseases

Vascular diseases encompass the leading causes of death and disability. This category of clinical disease includes:

- Vascular disease risk factor states such as hyper-cholesterolemia, hypertension, and diabetes;
- Effects of atherosclerosis, such as coronary and peripheral artery disease, and cerebrovascular disease and stroke;
- Angiogenesis contributing to cancer and to disease of the retina (eye);
- Disorders of endothelial function, as occurs in shock, sepsis, Raynaud’s disease, and migraine;
- Primary and secondary pulmonary hypertension
- The sickling disorders;
- Abnormal blood clotting complications such as stroke, arterial or venous thrombosis, fetal loss during pregnancy, and pulmonary embolism;
- Abnormal bleeding due to inherited or acquired states such as hemophilia and disseminated intravascular coagulation.

Ongoing Center Research Areas

Yvonne Datta, MD
Associate Professor
- Platelet function defects
- Platelet interactions with vascular endothelium
- Hemostasis and thrombosis

Kalpna Gupta, PhD
Associate Professor
- Pharmaceutical manipulation of angiogenesis for wound healing
- Mechanisms of endothelial cell regulation

Robert P. Hebbel, MD
Regents Professor and George Clark Professor
Director, Vascular Biology Center
- Genetic determinants of individual variation in vascular disease risk
- Endothelial cell based gene therapy for vascular disease
- Mechanism of blood clotting activation in sickle cell disease
- Development of vascular therapies targeting the endothelial cell

Mark Reding, MD
Associate Professor
- Mechanism of immune response to coagulation factors

Arne Slungaard, MD
Professor
- Biology and pathology of eosinophil peroxidase-mediated oxidant tissue damage
- Interactions of cationic proteins such as platelet factor 4 with the thrombomodulin/protein C natural anticoagulant system

Gregory Vercellotti, MD
Professor
- Inflammation and endothelial cell biology
- Role of inflammation in vaso-oclusion in sickle cell anemia
- Role of infection in atherosclerosis and vascular disease
- Oxidative stress and vascular disease

Ying-Jie Chen, MD, PhD
Assistant Professor
- Myocardial hypertrophy
- Congestive heart failure
- Exercise-induced muscle fatigue