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Education

Ph.D., Ohio University

Research Interest

Cardiovascular disease is an important global health problem. Vascular Biology is the major research interest in my lab. Thrombomodulin is a transmembrane protein in vascular endothelial cells and keratinocytes. It can regulate blood coagulation by activating protein C, which in turn inhibits blood coagulation by inactivation of factors Va and VIIIa. Thrombomodulin also plays an important role in cell-cell adhesion. It can regulate the distribution of plasminogen and migration of endothelial cells. Recently we also demonstrated that it can regulate inflammation responses by association with CD14 and monocyte adhesion to inflammatory endothelial cells. We also interested in the role of thrombomodulin in wound healing and in vascular diseases including atherosclerosis and aortic aneurysm using tissue specific gene knockout mice and recombinant proteins.