

Lena Claesson-Welsh - Regulation of vascular function

Vessels serve to keep the homeostasis of the healthy vasculature. On the other hand, many diseases are accompanied by a poorly functioning vasculature that aggravates the disease process. The family of vascular endothelial growth factors (VEGFs) and their receptors, VEGFR1, - 2 and -3, are main regulator of vascular function in health and disease. Lena Claesson Welsh's group is particularly interested in how these factors/receptors induce vascular permeability and how excess vessel leakage in disease impairs the condition of the afflicted tissue.