Microvascular Dynamics Laboratory

Research Description:

The overall goal of our laboratory is to better understand the cellular dynamics involved in adult microvascular remodeling. We apply in vivo, in vitro, and computational bioengineering approaches to investigate the regulation of vascular patterning and the functional relationships between microvascular remodeling and other processes such as neurogenesis, lymphangiogenesis and inflammation. In general, our work will provide valuable insight for the engineering of functional vascularized tissues and for understanding vascular dysfunction associated with multiple pathological conditions, including hypertension, tumor growth, and wound healing.

Sample Publications:


Funding Support for our laboratory is provided through Louisiana Board of Regents RCS and NIH COBRE Grants.

For More Information:
http://www.tulane.edu/murfeelab/
http://tulane.edu/sse/bme/