

Post-Doctoral Positions Available in Angiogenesis Research Laboratory

Postdoctoral positions are available for scientists interested in studying growth regulation of the vascular system at the whole animal, cellular, and molecular levels. The work will be carried out under the direction of Dr. Thomas Adair and Dr. Jian-Wei Gu.

The goal of our research is to better understand the basic physiological mechanisms that control angiogenesis and vascular regression with the long-term intent to develop reliable angiogenic therapies. We utilize an integrative approach employing multiple animal models of angiogenesis as well as various types of cells in conjunction with immunohistochemistry, morphometry, stereology, and molecular biology techniques. We have demonstrated that metabolic factors, such as hypoxia and adenosine are important triggers for expression of vascular endothelial growth factor (VEGF) and possibly endostatin under physiological conditions. If we can understand how adenosine, VEGF, endostatin, and their receptors are regulated in the skeletal muscles and heart during normoxic and hypoxic conditions, we can then hope to control vascularity to the benefit of mankind.

Applications are invited for a Postdoctoral/Research Associate position to study growth regulation of the vascular system at the whole animal, cellular, and molecular levels. Candidates must have a PhD and/or MD degree with training in one or more of the following areas: small animal surgery, chronic instrumentation of animals, basic cellular methods, or molecular biology techniques (isolation and detection of mRNA and proteins, etc.). Opportunities are available to learn various angiogenesis / antiangiogenesis models (chronic electrical stimulation of skeletal muscle, chick CAM preparation, tumor angiogenesis models, models of muscle disuse), various methods for quantitating vascularity (stereological, morphometric, and immunohistochemical techniques), and basic cellular and molecular techniques. This is an excellent opportunity for someone interested in learning multidisciplinary approaches to study regulation of angiogenesis. Salary will be commensurate with experience and credentials.

Applicants with PhD and/or MD should send a CV indicating their area of expertise, professional intentions, and the names and addresses of three references to:

Thomas H. Adair, Ph.D.
Angiogenesis Research Laboratories
Department of Physiology
University of Mississippi Medical Center
2500 North State Street
Jackson, Mississippi 39216

E-mail inquiries are encouraged: tadair@physiology.umsmed.edu