Postdoctoral Positions in Cardiopulmonary Organ-on-a-Chip Bioengineering

A postdoctoral position is available through a collaboration between the laboratories of Dr. Stephen Chan, M.D., Ph.D., a physician-scientist and Director of the Center for Pulmonary Vascular Biology and Medicine at the University of Pittsburgh and Dr. Warren Ruder, Ph.D., a synthetic biologist and Assistant Professor of Bioengineering at the University of Pittsburgh. The postdoctoral associate will develop an arteriole-on-a-chip system to recapitulate pulmonary arteriole vasculature in vitro for the purpose of studying pulmonary hypertension (PH). The system will integrate air-perfused airway epithelial cells with a liquid-perfused co-culture of pulmonary artery endothelial cells, smooth muscle cells, and adventitial fibroblasts in a synthetic biology-enhanced microfluidic model to study the effects of microRNAs on PH.

A PhD, MD or MD/PhD is required. The successful candidate will be highly motivated, with excellent written and verbal English communication skills, experience and expertise in cell culture, molecular biology, and microfluidic systems, and a proven track record of their ability to develop high impact research projects in the field of bioengineering. Particular consideration will be given to candidates with demonstrated experience in synthetic biology, and experience developing organ-on-a-chip systems. The University of Pittsburgh is an Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

Interested applicants should forward their CV, statement of research interests, and references to:

Warren Ruder, Ph.D. (warrenr@pitt.edu)  
Assistant Professor  
Department of Bioengineering  
University of Pittsburgh

Stephen Chan, M.D., Ph.D. (chansy@upmc.edu)  
Associate Professor and Director, Center for Pulmonary Vascular Biology and Medicine  
University of Pittsburgh and UPMC

The Department of Bioengineering and the Center for Pulmonary Vascular Biology and Medicine are strongly committed to a diverse academic environment and places high priority on attracting female and underrepresented minority candidates. We strongly encourage candidates from these groups to apply for the position.

The University of Pittsburgh affirms and actively promotes the rights of all individuals to equal opportunity in education and employment without regard to race, color, sex, national origin, age, religion, marital status, disability, veteran status, sexual orientation, gender identity, gender expression, or any other protected class.