

# Postdoctoral Fellow - University of Pittsburgh

Postdoctoral Fellow-zebrafish vascular development

An NIH R01-funded postdoctoral position is available in the laboratory of Dr. Beth Roman in the Department of Human Genetics at the University of Pittsburgh. We use dynamic imaging of zebrafish and cell culture models to study the interplay between molecular and biomechanical pathways in the control of endothelial cell behavior in vascular development and disease. Our primary focus is on endothelial bone morphogenetic protein (BMP)/ALK1 signaling, which is disrupted in the genetic vascular disorder, hereditary hemorrhagic telangiectasia (HHT). We are looking for a productive, motivated scientist to determine how BMP/ALK1 signaling and mechanical force interact to control endothelial cell migration and prevent development of vascular malformations.

Qualified candidates must have a PhD in biology or other relevant field, a strong publication record, and excellent oral and written English communication skills. Expertise in confocal and/or two-photon imaging and quantitative image analysis is strongly preferred. Previous experience with zebrafish and some understanding of biomechanics is desired. Interested candidates should send a brief cover letter (maximum 1-page) summarizing scientific accomplishments and outlining motivation for this position, a CV, and full contact information for three professional references to Dr. Beth Roman at [romanb@pitt.edu](mailto:romanb@pitt.edu).

The University of Pittsburgh is a collaborative, collegial environment for biomedical research. Our laboratory is part of a large, interactive zebrafish community, and we are affiliated with the Heart, Lung, and Blood Vascular Medicine Institute (VMI), which houses numerous laboratories focused on basic and translational cardiovascular research. Our laboratory is also integral to the UPMC/Pitt HHT Center of Excellence, affording the opportunity to translate research findings to a clinical care setting.

For more information, please see

<http://www.publichealth.pitt.edu/home/directory/beth-l-roman>

<http://www.upmc.com/Services/hht/Pages/default.aspx>

<http://www.vmi.pitt.edu/>