

Research Assistant Position

Harvard Medical School
Brigham and Women's Hospital
June 11, 2021



A research assistant position is available in the Division of Cardiovascular Medicine at Brigham and Women's Hospital and Harvard Medical School in the laboratory of Dr. Paul B. Yu.

Our laboratory performs translational research with the goal of understanding how context-sensitive bone morphogenetic protein (BMP) and transforming growth factor- β (TGF- β) signals are transduced by target cells, and how abnormalities of signal transduction and downstream regulation may lead to abnormal vascular cell function, pulmonary arterial hypertension, and musculoskeletal disease. Our work lies at the nexus of progenitor cell biology, chemical biology, cardiovascular physiology, and experimental pharmacology.

We have developed novel animal models of disease, chemical probes and experimental therapeutics geared towards understanding mechanisms of BMP and TGF- β signaling and treating vascular and musculoskeletal disease. More recently this work has incorporated **computational biology and bioinformatic techniques** for analyzing large datasets, or "big data." Our work has led to novel treatment strategies and diagnostic tests that have entered clinical testing. The candidate will be trained in **basic science and translational** study methods, and potentially work with patients in the context of 3 different clinical studies.

We welcome applications from highly motivated, independent and entrepreneurial-minded individuals with an interest in developing their skills in biology and science towards careers in the Health Sciences, Research, or Drug Development. Recent trainees have launched successful careers following their work in the laboratory with Medical School and Clinical training (M.D. and M.D./Ph.D. programs), Graduate School (Ph.D. programs), Medical and Research Faculty Positions, Biotech and Pharma Industry positions, and Venture Capital. Research assistants will contribute as authors to several publications during their tenure, with previous members publishing their work in **high-profile journals** including Science Translational Medicine, Nature Medicine, American Journal of Respiratory and Critical Care Medicine, Nature Chemical Biology, and Blood Journal.

A link to our published work:

<https://www.ncbi.nlm.nih.gov/myncbi/18S43cb7kFx/bibliography/public/>

REQUIRED SKILLS AND EXPERIENCE

A recent undergraduate degree in Biological Sciences, Chemistry or Physics

Excellent written and verbal communication skills in English

Some experience with tissue culture, and molecular biology is preferred.

Excellent organizational skills

Interested applicants should send a cover letter, curriculum vitae and the names and contact information of at least 3 references.