



Medical School
Department of Pediatric Surgery
Center for Stem Cell and Regenerative Medicine
The Brown Foundation Institute of Molecular Medicine (IMM)

POSTDOCTORAL FELLOW

Preferred Start Date: Flexible

A postdoctoral fellow position is available at the Brown Foundation Institute of Molecular Medicine, Center for Stem Cell and Regenerative Medicine, within the Department of Pediatric Surgery at the University of Texas Health Science Center at Houston, in the lab of Dr. Pamela Wenzel to study hematopoietic and mesenchymal stem cells, blood development, and the role of biomechanical force in shaping cellular potential and function.

The major research interests in the lab are: (1) to investigate the impact of biomechanical forces on stem cell self-renewal and activation of pro-hematopoietic genetic programs and; (2) to evaluate the regenerative effects of mechanical stress on mesenchymal stem cells used in the treatment of neural injury.

Projects rely upon in vitro methodologies for the exposure of stem cells to shear stress and cyclic strain, paired with in vivo functional analyses in animal models of blood development and neurological injury. Experiments involve classical cell and molecular biology techniques, fluorescence activated cell sorting, application of cellular mechanical stress, small molecule screens, and genetic manipulation in mice. Applicants with experience in mouse handling, FACS, survival surgery, hematopoietic stem cell transplantation, and/or chemical and mechanical engineering are highly encouraged to apply.

Qualifications:

Interested applicants should be highly motivated, have a Ph.D. degree, a strong background in molecular biology, cell biology, and mouse genetics. Prior publication in internationally recognized journals is required, and candidates should be fluent in spoken and written English.

To apply: Please send a cover letter, a brief description of research experience and interests, a curriculum vitae and contact information for three references in a single pdf file to: utpostdoc@gmail.com

Check us out at: <http://utsurg.uth.tmc.edu/pedisurgery> and <https://ww2.uthouston.edu/imm/centers/stem-cell-research.htm>

The University of Health Science Center at Houston is an EEO/AA Employer. M/F/D/V. This is a security sensitive position and thereby subject to Education Code §51.215. A background check will be required for the final candidate.