Postdoctoral fellow in mechanobiology

A postdoctoral training position is available in the laboratory of Shang Ma in Children’s Medical Center Research Institute (CRI) at UT Southwestern Medical Center. Our laboratory focuses on the research field of mechanotransduction, a fundamental process by which cells convert mechanical stimulus into biochemical signaling pathways. The goal of our lab is to understand how cells sense and process mechanical stimuli in human diseases. We will apply cutting-edge techniques such as humanized mouse models, gene editing, calcium imaging, bioengineering, and advanced microscopy. In the era of big data, we are also passionate about exploiting human genomics resources to identify new areas of research on mechanotransduction.

Before starting his own lab at UT Southwestern, Dr. Ma has laid strong groundwork for multiple projects studying the role of mechanotransduction in diseases that involve hematopoietic or neural systems. These projects are at promising stages for highly motivated postdoctoral researchers to take over and work towards publication. Successful candidates will have the unique opportunity to shape a new research group and grow with it. Further, you will take full advantage of working in a stimulating, diverse and collaborative community of scientists at CRI.

We will provide:

- A competitive salary and benefits package including health, welfare, and relocation fees
- A diverse and collaborative research environment
- State-of-the-art shared facilities including a mouse genome engineering core, flow cytometry, sequencing core, computational power, proteomics and metabolomics cores
- Opportunities for professional growth including the potential to take ownership of your projects and establish your independent career in future

We expect you to have:

- PhD and/or MD/PhD degree in life science or anticipate receiving your degree in the near future
- Solid publication record in peer-reviewed journals or preprint
- Effective communication skills (oral and written)
- Ability to work independently and a strong sense of collegiality
- Willingness to learn and master new technologies required for your projects
- Background in computational biology is a plus

Information on our postdoctoral training program, benefits, and a virtual tour can be found at http://www.utsouthwestern.edu/postdocs.

Interested candidates should send a cover letter, their CV and a list of 2 or 3 references to:

Shang Ma, Ph.D.
Assistant Professor, Children’s Research Institute
Email: Shang.Ma@UTSouthwestern.edu
Shang Ma, Ph.D. - Faculty Profile - UT Southwestern
Shang Ma Laboratory | Children’s Research Institute | Dallas Texas (utsw.edu)