



Postdoctoral position in Mechanobiology – Henry De Belly Lab

A postdoctoral position is available for a highly motivated research fellow in the laboratory of Dr. Henry De Belly at the Children's Medical Center Research Institute (CRI) at UT Southwestern Medical Center, Dallas, USA.

Mechanical forces are fundamental drivers of cell behaviors from tissues development, cell migration, immune response and wound healing. Central to this process is the plasma membrane, a dynamic mechanical platform that integrates physical forces with signaling. Subtle changes in membrane tension regulate polarity, migration, trafficking, and cell fate, while mechanical dysregulation contributes to pathology in immunity, inflammation, and cancer. Our laboratory investigates how mechanical forces shape cell behavior within tissues, from immune cell migration to collective processes such as wound healing and metastasis.

We seek a highly motivated postdoctoral researcher with interests in cell biology, mechanobiology, imaging, or quantitative approaches. The position offers an opportunity to work a collaborative, interdisciplinary and intellectually stimulating environment.

More information here: <https://cri.utsw.edu/faculty/henry-de-belly/>

Relevant publications:

- **Long range mutual activation establishes Rho and Rac polarity during cell migration** (PMID: 40236007)
- **Cell protrusions and contractions generate long-range membrane tension propagation** (PMID: 37311454)

Candidates must hold a Ph.D. and/or M.D. degree and have a strong background in one or more of the following areas: cellular biology, biophysics, molecular biology or biochemistry. The ideal candidate will demonstrate scientific independence, creativity, and flexibility, along with a strong record of productivity. Prior experience with imaging is preferred.

Information on our postdoctoral training program and benefits can be found in our [Postdoc Handbook](#) or at [UT Southwestern's Postdoctoral Scholars page](#). Interested individuals should send a CV, a short summary of research interest and experience, and a list of three references to Henry.DeBelly@UTSouthwestern.edu.

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