



Postdoctoral position in adhesion mechanobiology and 3D biomimetic culture models

An NIH-funded postdoctoral position is available in the Kutys laboratory (www.kutyslab.org) at UCSF melding engineered 3D biomimetic human tissues models with cell and molecular approaches to investigate new avenues of multicellular mechanobiology, tissue morphogenesis, and cell adhesion biology. A primary focus of the work is defining a new tumor suppressive role for Notch receptors through the regulation of cell-cell adhesion and cytoskeletal dynamics, mechanotransduction, and proliferative signaling. The research builds on our recent discovery (Polacheck* and Kutys* et al. *Nature* 2017) that physical stress can activate the Notch1 receptor in endothelial cells to control cadherin stability, cortical actin assembly, and vascular homeostasis. This position offers the opportunity to learn and apply advanced live cell microscopy, engineered microfluidic tissue platforms, novel molecular sensors and actuators, and classical biochemistry. Key experimental studies will be expanded to include in vivo work in pre-clinical models. We are looking for postdoctoral fellows with a Ph.D. in cell, molecular or developmental biology, biochemistry, or biomedical engineering to join our multidisciplinary team.

The Kutys Lab is located within the Department of Cell and Tissue Biology (CTB) at UCSF Parnassus Medical Campus. The postdoctoral fellow will work in a highly collaborative and interdisciplinary environment and enjoy access to world-class researchers, instrumentation, and expertise. Additional details on the Kutys laboratory can be found at: www.kutyslab.org.

Kutys Lab perks:

- Collaborative interactions and seminars with world class researchers and clinicians from UCSF CTB, Anatomy, Microbiology and Immunology, Cell and Molecular Pharmacology, and Bioengineering Departments.
- Access to advanced instrumentation and interdisciplinary expertise.
- Adaptive and supportive mentoring tailored toward individual career goals.
- A stimulating lab culture with the freedom to develop new research directions.
- An NIH-funded postdoctoral position with mentored support to pursue individual fellowship opportunities.
- Situated within the beautiful, unique, and diverse city of San Francisco, CA.

Start date: Immediate or upon mutual agreement.

Candidates should send the following application materials to Dr. Kutys at: matthew.kutys@ucsf.edu

- Cover letter detailing research experience and scientific interests
- CV containing contact information for references.