



Postdoctoral Position
Program in Integrative Nutrition & Complex Diseases
Laboratory of Dr. Robert S. Chapkin

A post-doctoral position is open in Dr. Robert Chapkin's laboratory (NCI R35 Outstanding Investigator) at the CPRIT Regional Center of Excellence in Cancer Research, Texas A&M University and the NIH-funded Program in Integrative Nutrition & Complex Diseases. The laboratory is focused on environmental modulation of stem cell biology and its impact on chronic disease risk. Our lab infrastructure includes: Single cell RNA Seq, transcriptomics, and data science, flow cytometry single cell imaging, cell sorting and 3D mouse and human organoid cell culture, fluorescence microscopy (FLIM, FRET, TIRF), super-resolution microscopy (STED, STORM), among others. Signaling pathways of interest include Wnt/EGFR/Ras dependent networks.

Active projects in the lab include:

- Effects of cancer on proteolipid nanoclustering in model membranes and in vivo (transgenic *Drosophila*, mouse and human 3D-organoid) models.
- Effects of environmental/dietary agents on gut stem cell biology and cancer risk.
- Single-cell systems biology and predictive modeling of intracellular signaling responses.

The successful candidate must have a PhD degree in cell biology, biochemistry, chemistry, systems biology, nutrition, or a relevant field. The candidate must be highly motivated, comfortable with technical challenges and problem solving and able to work collaboratively. Experience with fluorescence microscopy is an asset. Competitive salary and benefits are available commensurate with experience. Fluent English, a track record of strong publications, and a cooperative attitude are a must for this position.

The Chapkin Lab has been continuously funded by NIH for the past 35 years. For more information about the lab see: <http://chapkinlab.tamu.edu>.

Please submit your CV and statement of current interests to:
Dr. Laurie A. Davidson at L-davidson@tamu.edu.