Postdoctoral Position

There is an immediate opening for a post-doctoral fellow interested in cancer research in the Department of Surgery at Thomas Jefferson University. We are located in Center City, Philadelphia, PA. The Dang lab is looking for postdoctoral fellows interested in genetic, molecular, or biochemical mechanisms of tumor development. Candidates should have experience in molecular biology techniques, such as cloning, cell culture, qPCR, immunoblotting, etc. We are interested in identifying disease-acquired functions of RNA binding proteins, and in parallel, exploit such mechanisms as actionable biomarkers or drug targets to improve diagnosis for liver cancer patients. Our lab utilizes bioinformatics and bench science spanning from functional genomics, translational science, molecular epidemiology, RNA biology, cancer biology, and animal models to investigate the roles of RBPs in primary liver cancer (PLC). Our main focuses are as follows:

Our central focus of our research is investigating the dysregulation of mRNA binding proteins (mRBPs) in hepatocellular carcinoma (HCC). Our recent work identified Negative Elongation Factor E as an oncogenic RBP that is associated with poor clinical outcome in more than 1200 clinical specimens. We identified the novel mechanisms in which NELFE enhances the oncogene MYC to promote tumorigenesis. We are currently interested in (1) how NELFE interact and regulate their RNA targets through modular domains such as low complexity sequences (LCS) and RNA recognition motifs (RRMs) (2), NELFE regulates MYC signaling to enhance HCC, (3) the regulation of NELFE through splicing, and (4) genome-wide CRISPR/cas9 screening to identify targets against NELFE/MYC tumors.

The candidate should have a PhD or MD/PhD degree with a strong publication background. The candidate should be able to work independently and have strong team working skills. The position further requires excellent organizational capacity, outstanding troubleshooting skills, and the ability to communicate effectively. Our lab is diverse and inclusive. We collaborate with many folks, including clinicians and surgeons and work as a team quite often.

Detailed information about our research program and publications can be accessed:

https://danglabscience.chilledfire.com/
https://research.jefferson.edu/labs/researcher/dang-laboratory.html

To apply, go to www.jefferson.edu/hr and reference job id# 9255100. Each application should consist of a cover letter describing your research experience and interests, curriculum vitae, bibliography, and contact information of three references.