Postdoctoral Fellowship in Genomic Instability and Cancer Genetics

A postdoctoral training position is available in the laboratory of Dr. Peter Ly, Ph.D., in the Department of Pathology at UT Southwestern Medical Center to study the mechanistic causes and consequences of genomic instability in cancer. Our laboratory is pursuing several exciting projects related to how cell cycle errors and mitotic chromosome segregation defects are linked to a diverse spectrum of genomic rearrangements and chromosomal alterations. These range from simple translocations and deletions to catastrophic forms of chromothripsis that ultimately shapes the complex mutational landscape of cancer genomes. We are also investigating how diverse DNA damage repair pathways respond to DNA double-strand breaks induced by mitotic errors, as well as their contribution to the maintenance of genome integrity. Our research program employs a number of state-of-the-art approaches, including CRISPR-based engineering/screening, live-cell microscopy, cytogenetics, and genomics.

Key publications:


Candidates must hold a Ph.D. and/or M.D. degree prior to starting. Experience in cell and molecular biology, genetics, biochemistry, microscopy, and/or computational biology leading to publication(s) in peer-reviewed journals and/or pre-prints is recommended. The successful applicant is expected to develop and lead an independent research project within the broad themes of the laboratory.

Information on our postdoctoral training program and benefits can be found in our Postdoc Handbook or at http://www.utsouthwestern.edu/postdocs.

Interested individuals should send a CV, statement of interest, and a list of three references to:

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