

Molecular Functions and Co-dependencies of Extrachromosomal DNA in Cancer

Postdoctoral positions are available in the [Sihan Wu](#) lab at Children's Medical Center Research Institute (CRI) at UT Southwestern. We study the molecular function and molecular basis of extrachromosomal DNA (ecDNA) in human cancer, including its replication, transcription, and repair, and try to develop effective approaches to tackle these mechanisms to eliminate ecDNA in cancer as therapeutic strategies. Applicants who are intellectually curious and interested in science that bridges cancer genetics, genomics, epigenetics, metabolism, and signal transduction, are encouraged to apply.

Postdoctoral scientist in the lab will conduct cutting-edge research in a protected, interactive, highly collaborative, and well-funded environment, with access to shared facilities including sequencing, bioinformatics, imaging, metabolomics, flow cytometry, molecular pathology, mouse genome engineering, and beyond.

Qualifications for these positions include Ph.D. or M.D. degree(s) (or anticipate receiving their degree in the near future) with less than 2 years of postdoctoral experience. Candidates with relevant training involving DNA and chromatin biology, genetics, genomics, epigenetics, signal transduction, cancer metabolism, and bioinformatics, especially with both wet-lab and dry-lab experience, are particularly encouraged to apply.

Interested applicants should submit the following documents assembled into one PDF file to Sihan.Wu@UTSouthwestern.edu.

1. A Cover Letter describing your interest in this position.
2. A CV listing your education, training background, publications, and skill set.
3. One to two Reference Letter(s), including from your current mentor(s).
4. *A 2-page Research Statement/Proposal summarizing your current research achievement and / or future research interest. (* Optional item. You can submit it later upon request.)

For more information about our lab, please visit our [lab website](#) and [GitHub page](#).

UT Southwestern Medical Center is committed to an educational and working environment that provides equal opportunity to all members of the University community. In accordance with federal and state law, the University prohibits unlawful discrimination, including harassment, on the basis of: race; color; religion; national origin; sex; including sexual harassment; age; disability; genetic information; citizenship status; and protected veteran status. In addition, it is UT Southwestern policy to prohibit discrimination on the basis of sexual orientation, gender identity, or gender expression.