

The Jiang Laboratory (Division of Regenerative Medicine) is interested in the molecular mechanisms of RNA and DNA editing in cancer stem cells, how editase enzymes are regulated in different cellular contexts, and how to target these pathways in pre-clinical models of both solid tumor and blood malignancies (PMCID 33503434 and PMCID 30612940). The Jiang lab is pursuing these interests by studying the functions and molecular targets of DNA/RNA editing enzymes that specify normal stem cell development and maintain cancer stem cell in the T-cell lymphoblastic leukemia and ovarian cancer models. We employ a variety of genetic, molecular and cell biological tools, as well as xenograft mouse models and bioinformatic tools to address these questions.

The candidate is expected to learn and perform molecular assays and functional experiments using cell lines, patient-derived organoids, and xenograft mouse models. These will include gene regulation by lentiviral systems, live cell confocal imaging, single cell RNAseq of sorted cancer stem cells and sophisticated genetic manipulation using CRISPR/Cas. Collaborations with clinicians and bioinformatic experts are also expected.

Candidate's responsibilities:

- Independently design and perform experiments and procedures
- Demonstrate ability to adapt methods according to project priorities
- Provide independent experimental design and planning
- Be able to analyze and interpret data from different sources and draw relevant conclusions
- Be able to present results and accurately document experiments
- Contribute to writing of reports and manuscripts
- Work collaboratively across lab functions within the Jiang group and with collaborators.

The candidate is expected to have solid experimental and academic background (Ph.D. or M.D. degree(s) in molecular biology and experience with mouse models. Previous experience in bioinformatics and/or regulation of RNA processing is preferred but not required. Excellent written and oral communication is required in this collaborative environment. Competitive salary and benefits will be provided, commensurate with experience. Highly motivated and passionate applicants are encouraged to apply.

If interested, please email your CV along with a cover letter to Qingfei Jiang at [q1jiang@health.ucsd.edu](mailto:q1jiang@health.ucsd.edu).

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