



Postdoctoral position in cancer therapeutics at Yale University

The Sheltzer Lab at Yale University is seeking postdoctoral researchers for a funded project researching and developing anti-cancer therapeutic strategies.

Our laboratory is applying a combination of techniques, including CRISPR screens, targeted mutagenesis, live-cell microscopy, and molecular pharmacology, to study cancer drugs. We have recently discovered the first selective inhibitor of the key cancer-driving kinase CDK11, and we are investigating the effects of ablating this enzyme in normal cells and in growing tumors. We have discovered roles for CDK11 in transcription, cell division, and splicing, and we are seeking to gain a molecular understanding of its various cellular functions. Additionally, we are uncovering and characterizing genomic biomarkers that confer increased sensitivity to CDK11 inhibition. Finally, we are interested in determining the consequences of combining CDK11 inhibition with other therapeutic approaches, including PARP inhibitors and immune checkpoint inhibitors. These findings will contribute to the development of CDK11 inhibitors as a novel therapeutic strategy in cancer.

This project is well-suited for scientists seeking to gain expertise in molecular pharmacology and translational cancer research. More information can be found in our publications, including:

Lin A., and Sheltzer J.M. (2020). [Discovering and validating cancer genetic dependencies: approaches and pitfalls](#). *Nature Reviews Genetics*. doi:10.1038/s41576-020-0247-7.

Lin, A., Giuliano, C.J., Palladino, A., John, K.M., Abramowicz, C., Yuan, M.L., Sausville, E.L., Lukow, D.A., Luwei, L., Chait, A.R., Galluzzo, Z.C., Tucker, C., Sheltzer, J.M. (2019). [Off-target toxicity is a common mechanism-of-action of cancer drugs undergoing clinical trials](#). *Science Translational Medicine*. 11, eaaw8412.

The Sheltzer Lab is a highly-collaborative environment that values rigorous experimental design and that welcomes scientists from all backgrounds. We are located at Yale University, an internationally-renowned research university located in the historic city of New Haven, Connecticut. Yale has long been recognized as an outstanding environment for nurturing young scientists, with postdoctoral researchers being an integral part of the discovery process.

Additional information on research in the Sheltzer Lab can be found on our website: www.sheltzerlab.org. Candidates who are interested in applying to this position should send a CV and cover letter to Dr. Sheltzer at Jason.Sheltzer@yale.edu.

Yale University is an EO/AA Employer. All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability or protected veteran status.