



Postdoctoral position in genomic instability at Yale University

The Sheltzer Lab at Yale University is seeking postdoctoral researchers for a funded project studying aneuploidy and genomic instability.

Aneuploidy is the most common cause of developmental disabilities and is found in 90% of human cancers. However, very little is known about why these alterations arise or how they influence cellular physiology. The Sheltzer Lab is pioneering new CRISPR-based chromosome-engineering methods to generate and interrogate large-scale gene dosage imbalances. These approaches are shedding light on multiple unexpected ways that aneuploidy can affect organismal biology and indicate that aneuploidy plays a central role in driving malignant growth. We are seeking postdocs who are interested in building on this research to develop new approaches to model aneuploidy and then use these techniques to study how aneuploidy influences development and disease.

More information on our research can be found in our lab's publications, including:

Lukow, D.A., Sausville, E.L., Suri, P., Chunduri, N.K., Wieland, A., Leu, J., Smith, J.C., Girish, V., Kumar, A.A., Kendall, J., Wang, Z., Storchova, Z., **Sheltzer, J.M.** (2021). [Chromosomal instability accelerates the evolution of resistance to anti-cancer therapies](https://doi.org/10.1016/j.devcel.2021.07.009). *Developmental Cell*. doi.org/10.1016/j.devcel.2021.07.009

Vasudevan, A., Schukken, K.M., Sausville, E.L., Girish, V., Adebambo, O.A., **Sheltzer, J.M.** (2021). [Aneuploidy as a promoter and suppressor of malignant growth](https://doi.org/10.1038/s41568-020-00321-1). *Nature Reviews Cancer* doi.org/10.1038/s41568-020-00321-1.

Vasudevan, A., Baruah, P.S., Smith, J.C., Wang, Z., Sayles, N.M., Andrews, P., Kendall, J., Leu, J., Chunduri, N.K., Levy, D., Wigler, M., Storchova, Z., **Sheltzer, J.M.** (2020). [Single-Chromosomal Gains Can Function as Metastasis Suppressors and Promoters in Colon Cancer](https://doi.org/10.1016/j.devcel.2020.09.011). *Developmental Cell* 52, 413-428.e6.

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.