



Jason Meyer Sheltzer

Assistant Professor of Radiation Oncology (Radiation and Cancer Biology)
Radiation Oncology - Radiation and Cancer Biology

Bio

ACADEMIC APPOINTMENTS

- Assistant Professor, Radiation Oncology - Radiation and Cancer Biology
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Faculty Fellow, Sarafan ChEM-H

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Yi Bei, Debanjan Bhattacharjee, Gregory Gauthier-Coles, Jessica Zhao

Publications

PUBLICATIONS

- **Protein buffering of aneuploidy is driven by coordinated factors identified through machine learning.** *Molecular systems biology*
Heller, E. M., Barthel, K., Räschle, M., Schukken, K. M., Sheltzer, J. M., Storchová, Z.
2026
- **An elevated rate of whole-genome duplications in cancers from Black patients.** *Nature communications*
Brown, L. M., Hagenson, R. A., Koklič, T., Urbančič, I., Qiao, L., Strancar, J., Sheltzer, J. M.
2024; 15 (1): 8218
- **Oncogene-like addiction to aneuploidy in human cancers.** *Science (New York, N.Y.)*
Girish, V., Lakhani, A. A., Thompson, S. L., Scaduto, C. M., Brown, L. M., Hagenson, R. A., Sausville, E. L., Mendelson, B. E., Kandikuppa, P. K., Lukow, D. A., Yuan, M. L., Stevens, E. C., Lee, et al
2023; 381 (6660): eadg4521
- **Synthesis and Structure-Activity relationships of cyclin-dependent kinase 11 inhibitors based on a diaminothiazole scaffold.** *European journal of medicinal chemistry*
Li, Z., Ishida, R., Liu, Y., Wang, J., Li, Y., Gao, Y., Jiang, J., Che, J., Sheltzer, J. M., Robers, M. B., Zhang, T., Westover, K. D., Nabet, et al
2022; 238: 114433
- **Discovering and validating cancer genetic dependencies: approaches and pitfalls.** *Nature reviews. Genetics*
Lin, A. n., Sheltzer, J. M.
2020
- **Increasing gender diversity in the STEM research workforce** *SCIENCE*

Greider, C. W., Sheltzer, J. M., Cantalupo, N. C., Copeland, W. B., Dasgupta, N., Hopkins, N., Jansen, J. M., Joshua-Tor, L., McDowell, G. S., Metcalf, J. L., McLaughlin, B., Olivarius, A., O'Shea, et al
2019; 366 (6466): 692-+

● **Off-target toxicity is a common mechanism of action of cancer drugs undergoing clinical trials.** *Science translational medicine*

Lin, A., Giuliano, C. J., Palladino, A., John, K. M., Abramowicz, C., Yuan, M. L., Sausville, E. L., Lukow, D. A., Liu, L., Chait, A. R., Galluzzo, Z. C., Tucker, C., Sheltzer, et al
2019; 11 (509)

● **Aneuploidy drives genomic instability in yeast.** *Science (New York, N.Y.)*

Sheltzer, J. M., Blank, H. M., Pfau, S. J., Tange, Y., George, B. M., Humpton, T. J., Brito, I. L., Hiraoka, Y., Niwa, O., Amon, A.
2011; 333 (6045): 1026-30