Stanford

Man Zhao

Postdoctoral Scholar, Radiation Biology

Bio

BIO

My research primarily focuses on the molecular mechanisms, signaling pathways, and therapeutic targets underlying cancer metabolism, particularly the m6A demethylase FTO. I am also actively exploring the interplay between tumor metabolism and tumor immunity, with the goal of identifying novel metabolic vulnerabilities for cancer treatment.

INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Stanford Postdoc JEDI Champion Awards, Stanford (2024)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Associate member, American Association for Cancer Research (2024 - present)

PROFESSIONAL EDUCATION

- PhD, Nankai University , Biochemistry and Molecular Biology (2020)

STANFORD ADVISORS

- Erinn Rankin, Postdoctoral Faculty Sponsor

COMMUNITY AND INTERNATIONAL WORK

- Board Member
- Co-chair

LINKS

- LinkedIn: https://www.linkedin.com/in/man-zhao-514a20288/
- Google Scholar: https://scholar.google.com/citations?user=DNn9OtMAAAAJ&hl=en&oi=ao

Publications

PUBLICATIONS

- **FTO inhibition attenuates renal fibrosis by downregulating ferroptosis activator ACSL4 and profibrotic factor TGFBI.** *iScience*
  Zhang, D., Chiu, C. L., Wen, R., Qiu, Z., Garcia-Marques, F., Bermudez, A., Zhao, M., Zhao, H., Dixon, S. J., Peehl, D. M., Rankin, E. B., Pitteri, S., Brooks, et al

2025; 28 (10): 113515

- **The RNA demethylase FTO promotes glutamine metabolism in clear cell renal cell carcinoma through the regulation of SLC1A5.** *Science advances*
  Zhao, M., Zhang, D., Jiang, H., Kuganesan, N., Natarajan, S., Pu, L., Thakkar, K. N., Zhao, H., Le, Q. T., Giaccia, A. J., Brooks, J. D., Peehl, D. M., Ye, et al
  2025; 11 (25): eadv2417

- **Tumour cell-expressed PD-L1 reprograms lipid metabolism via EGFR/ITGB4/SREBP1c signalling in liver cancer.** *JHEP reports : innovation in hepatology*
  Zhao, M., Yuan, H., Yang, G., Wang, Y., Bu, Y., Zhang, H., Zhao, L., Lv, P., Yun, H., Geng, Y., Feng, J., Hou, C., Wang, et al
  2024; 6 (4): 101009

- **HBx-Induced HSPA8 Stimulates HBV Replication and Suppresses Ferroptosis to Support Liver Cancer Progression.** *Cancer research*
  Wang, Y., Zhao, M., Zhao, L., Geng, Y., Li, G., Chen, L., Yu, J., Yuan, H., Zhang, H., Yun, H., Yuan, Y., Wang, G., Feng, et al
  2023; 83 (7): 1048-1061

- **Mitochondrial uncoupling induces epigenome remodeling and promotes differentiation in neuroblastoma.** *Cancer research*
  Jiang, H., Greathouse, R. L., Tiche, S. J., Zhao, M., He, B., Li, Y., Li, A. M., Forgo, B., Yip, M., Li, A., Shih, M., Banuelos, S., Zhou, et al
  2022

- **PRMT5 confers lipid metabolism reprogramming, tumour growth and metastasis depending on the SIRT7-mediated desuccinylation of PRMT5 K387 in tumours.** *Acta pharmacologica Sinica*
  Yuan, H. F., Zhao, M., Zhao, L. N., Yun, H. L., Yang, G., Geng, Y., Wang, Y. F., Zheng, W., Yuan, Y., Song, T. Q., Niu, J. Q., Zhang, X. D.
  2022; 43 (9): 2373-2385

- **SPIN1 triggers abnormal lipid metabolism and enhances tumor growth in liver cancer.** *Cancer letters*
  Zhao, M., Bu, Y., Feng, J., Zhang, H., Chen, Y., Yang, G., Liu, Z., Yuan, H., Yuan, Y., Liu, L., Yun, H., Wang, J., Zhang, et al
  2020; 470: 54-63