Stanford



Yuxiang Chen

Postdoctoral Scholar, Genetics

Bio

HONORS AND AWARDS

- American Cancer Society Postdoc Fellowship, American Cancer Society (2025-2026)
- Stanford Dean's Postdoc Fellowship, Stanford School Of Medicine (2023-2024)
- Keystone Symposia Scholarship, Keystone meeting (2017)
- Excellent New Graduate Award, Tsinghua University (2013)
- Outstanding Graduate award, Sichuan University (2013)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Tsinghua University (2020)
- Bachelor of Science, Sichuan University (2013)
- PhD, Tsinghua University , Microbiology, Molecular Biology (2020)
- BS, Sichuan University , Biology (2013)

STANFORD ADVISORS

- Maria Barna, Postdoctoral Faculty Sponsor

Research & Scholarship

LAB AFFILIATIONS

- Maria Barna (2/16/2023)

Publications

PUBLICATIONS

- **Ribo-Tweezer: Rapid removal of ribosomal proteins reveals additional layers of post-transcriptional gene regulation.** *Molecular cell*
  Chen, Y., Cheng, C. P., Cates, K., Marinov, G. K., Lantz, T. C., Yang, H., Liu, I., Genuth, N. R., Andronescu, C., Hung, V., Bermudez, A., Rothschild, D., Georgeson, et al
  2026

- **Ribosomal RNA methylation by GidB modulates discrimination of mischarged tRNA.** *bioRxiv : the preprint server for biology*
  Bi, Z., Chen, Y. X., Young, I. D., Dandan, M. T., Joshi, H., Su, H. W., Chen, Y., Hong, J. Y., Fraser, J. S., Javid, B.
  2026

- **A subcellular map of translational machinery composition and regulation at the single-molecule level.** *Science (New York, N.Y.)*

Zhang, Z., Xu, A., Bai, Y., Chen, Y., Cates, K., Kerr, C., Bermudez, A., Susanto, T. T., Wysong, K., García Marqués, F. J., Nolan, G. P., Pitteri, S., Barna, et al

2025; 387 (6738): eadn2623

- **RAPIDASH: Tag-free enrichment of ribosome-associated proteins reveals composition dynamics in embryonic tissue, cancer cells, and macrophages.** *Molecular cell*

  Susanto, T. T., Hung, V., Levine, A. G., Chen, Y., Kerr, C. H., Yoo, Y., Oses-Prieto, J. A., Fromm, L., Zhang, Z., Lantz, T. C., Fujii, K., Wernig, M., Burlingame, et al

  2024

- **Mechanical morphotype switching as an adaptive response in mycobacteria.** *Science advances*

  Eskandarian, H. A., Chen, Y., Toniolo, C., Belardinelli, J. M., Palcekova, Z., Hom, L., Ashby, P. D., Fantner, G. E., Jackson, M., McKinney, J. D., Javid, B.

  2024; 10 (1): eadh7957

- **Selective translation by alternative bacterial ribosomes.** *Proceedings of the National Academy of Sciences of the United States of America*

  Chen, Y. X., Xu, Z. Y., Ge, X., Sanyal, S., Lu, Z. J., Javid, B.

  2020; 117 (32): 19487-19496

- **Measurement of Specific Mycobacterial Mistranslation Rates with Gain-of-function Reporter Systems.** *Journal of visualized experiments : JoVE*

  Chen, Y. X., Pan, M., Chen, Y. M., Javid, B.

  2019

- **More than merely drug resistance.** *Nature microbiology*

  Chen, Y. X., Javid, B.

  2018; 3 (10): 1078-1079

- **Kasugamycin potentiates rifampicin and limits emergence of resistance in Mycobacterium tuberculosis by specifically decreasing mycobacterial mistranslation.** *eLife*

  Chaudhuri, S., Li, L., Zimmerman, M., Chen, Y., Chen, Y. X., Toosky, M. N., Gardner, M., Pan, M., Li, Y. Y., Kawaji, Q., Zhu, J. H., Su, H. W., Martinot, et al

  2018; 7

- **The essential mycobacterial amidotransferase GatCAB is a modulator of specific translational fidelity.** *Nature microbiology*

  Su, H. W., Zhu, J. H., Li, H., Cai, R. J., Ealand, C., Wang, X., Chen, Y. X., Kayani, M. U., Zhu, T. F., Moradigaravand, D., Huang, H., Kana, B. D., Javid, et al

  2016; 1 (11): 16147