Stanford

Jianxiu Zhang

Postdoctoral Scholar, Molecular and Cellular Physiology

Bio

HONORS AND AWARDS

- NIH Pathway to Independence Award, National Institutes of Health (2026)
- Alzheimer's Association Research Fellowship, Alzheimer's Association (2022-2025)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Institute of Biophysics, Chinese Academy of Sciences , Biochemistry and Molecular Biology (2021)
- Bachelor of Engineering, Jilin University , Bioengineering (2015)
- Exchange student, Peking University , Biology (2013)

STANFORD ADVISORS

- Liang Feng, Postdoctoral Faculty Sponsor

LINKS

- Google Scholar: https://scholar.google.com/citations?user=RHhfqMoAAAAJ&hl=en
- Twitter: https://twitter.com/jxzhang8

Publications

PUBLICATIONS

- **Diverse bacterial pattern recognition receptors sense the core phage proteome.** *Nature*
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- **A genetically encoded sensor of ionic stress links cellular proton dynamics to sleep.** *Science advances*
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- **Molecular insights into mitochondrial calcium extrusion**
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- **Proteolytic activation of diverse antiviral defense modules in prokaryotes.** *bioRxiv : the preprint server for biology*
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- **Structure and mechanism of the mitochondrial calcium transporter NCLX.** *Nature*
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- **Molecular mechanisms of thiazide-like diuretics-mediated inhibition of the human Na-Cl cotransporter.** *Nature communications*
  Lee, C. L., Zhang, J., Feng, L.

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- **Structure of mitochondrial pyruvate carrier and its inhibition mechanism** *NATURE*
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- **Structural duality enables a single protein to act as a toxin-antidote pair for meiotic drive.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Structure and mechanism of the alkane-oxidizing enzyme AlkB.** *Nature communications*
  Guo, X., Zhang, J., Han, L., Lee, J., Williams, S. C., Forsberg, A., Xu, Y., Austin, R. N., Feng, L.
  2023; 14 (1): 2180
- **Structure and thiazide inhibition mechanism of the human Na-Cl cotransporter.** *Nature*
  Fan, M., Zhang, J., Lee, C. L., Zhang, J., Feng, L.
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- **Bridge-Like Lipid Transfer Proteins (BLTPs) in C. elegans: From Genetics to Structures and Functions.** *Contact (Thousand Oaks (Ventura County, Calif.))*
  Pandey, T., Zhang, J., Wang, B., Ma, D. K.
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- **A conserved megaprotein-based molecular bridge critical for lipid trafficking and cold resilience.** *Nature communications*
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- **Structural mechanism of protein recognition by the FW domain of autophagy receptor Nbr1.** *Nature communications*
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  Wang, Y., Zhang, J., Liu, X., Li, Y., Sui, J., Dong, M., Ye, K., Du, L.
  2021; 40 (15): e107497
- **Cryo-EM structure of fission yeast tetrameric alpha-mannosidase Ams1** *FEBS OPEN BIO*
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