

Stanford



Yingyue Zhou

Postdoctoral Scholar, Biochemistry

Bio

HONORS AND AWARDS

- School of Medicine Dean's Postdoctoral Fellowship, Stanford University (2024)

PROFESSIONAL EDUCATION

- PhD, Washington University in St. Louis (2021)
- BS, Cornell University , Biological Sciences (2015)
- BS, China Agricultural University , Biological Sciences (2015)

STANFORD ADVISORS

- Mark Krasnow, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Mutations in the human CSF1R gene impact microglia's maintenance of brain white matter integrity.** *Nature immunology*
Du, S., Zhou, Y., Li, D., Lier, J., Cella, M., Tada, M., Hamasaki, H., Wu, J., Cai, Z., Orthmann-Murphy, J. L., Kakita, A., Kipnis, J., Bergner, et al
2025
- **Loss of ATG7 in microglia impairs UPR, triggers ferroptosis, and weakens amyloid pathology control.** *The Journal of experimental medicine*
Cai, Z., Wang, S., Cao, S., Chen, Y., Penati, S., Peng, V., Yuede, C. M., Beatty, W. L., Lin, K., Zhu, Y., Zhou, Y., Colonna, M.
2025; 222 (4)
- **Targeting TREM2 signaling shows limited impact on cerebrovascular calcification** *LIFE SCIENCE ALLIANCE*
Sridhar, S., Zhou, Y., Ibrahim, A., Bertazzo, S., Wyss, T., Swain, A., Maheshwari, U., Huang, S., Colonna, M., Keller, A.
2024; 8 (1)
- **Antibody-mediated targeting of human microglial leukocyte Ig-like receptor B4 attenuates amyloid pathology in a mouse model** *SCIENCE TRANSLATIONAL MEDICINE*
Hou, J., Chen, Y., Cai, Z., Heo, G., Yuede, C. M., Wang, Z., Lin, K., Saadi, F., Trsan, T., Nguyen, A. T., Constantopoulos, E., Larsen, R. A., Zhu, et al
2024; 16 (741): eadj9052
- **Transcriptomic atlas and interaction networks of brain cells in mouse CNS demyelination and remyelination.** *Cell reports*
Hou, J., Zhou, Y., Cai, Z., Terekhova, M., Swain, A., Andhey, P. S., Guimaraes, R. M., Ulezko Antonova, A., Qiu, T., Sviben, S., Strout, G., Fitzpatrick, J. A., Chen, et al
2023; 42 (4): 112293
- **Human early-onset dementia caused by DAP12 deficiency reveals a unique signature of dysregulated microglia.** *Nature immunology*
Zhou, Y., Tada, M., Cai, Z., Andhey, P. S., Swain, A., Miller, K. R., Gilfillan, S., Artyomov, M. N., Takao, M., Kakita, A., Colonna, M.
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- **TREM2 sustains macrophage-hepatocyte metabolic coordination in nonalcoholic fatty liver disease and sepsis** *JOURNAL OF CLINICAL INVESTIGATION*
Hou, J., Zhang, J., Cui, P., Zhou, Y., Liu, C., Wu, X., Ji, Y., Wang, S., Cheng, B., Ye, H., Shu, L., Zhang, K., Wang, et al
2021; 131 (4)
- **Human and mouse single-nucleus transcriptomics reveal TREM2-dependent and TREM2-independent cellular responses in Alzheimer's disease.** *Nature medicine*
Zhou, Y., Song, W. M., Andhey, P. S., Swain, A., Levy, T., Miller, K. R., Poliani, P. L., Cominelli, M., Grover, S., Gilfillan, S., Cella, M., Ulland, T. K., Zaitsev, et al
2020; 26 (1): 131-142
- **ApoE facilitates the microglial response to amyloid plaque pathology** *JOURNAL OF EXPERIMENTAL MEDICINE*
Ulrich, J. D., Ulland, T. K., Mahan, T. E., Nystrom, S., Nilsson, K., Song, W. M., Zhou, Y., Reinartz, M., Choi, S., Jiang, H., Stewart, F. R., Anderson, E., Wang, et al
2018; 215 (4): 1047-1058
- **TREM2 Maintains Microglial Metabolic Fitness in Alzheimer's Disease** *CELL*
Ulland, T. K., Song, W. M., Huang, S., Ulrich, J. D., Sergushichev, A., Beatty, W. L., Loboda, A. A., Zhou, Y., Cairns, N. J., Kambal, A., Loginicheva, E., Gilfillan, S., Cella, et al
2017; 170 (4): 649+