



## Zhuoran Li

Postdoctoral Scholar, Pathology

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### Bio

#### HONORS AND AWARDS

- The Joseph R. McMicking Fellowship in Biological Sciences, Stanford University

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , BIO-PHD (2026)
- B.S., Peking University , Integrated Science (2019)

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### Publications

#### PUBLICATIONS

- **Reciprocal repulsions enforce heterotypic dendrite segregation in an olfactory circuit.** *bioRxiv : the preprint server for biology*  
Ji, H., Li, J., Xu, Y., Wong, K. K., Wu, Y., Luginbuhl, D. J., Zhang, Y., Li, Z., Lee, J., Jones, R. C., Quake, S. R., Araç, D., Özkan, et al  
2026
- **Endocytome profiling uncovers cell-surface protein dynamics underlying neuronal connectivity.** *Neuron*  
McLaughlin, C. N., Ji, H., Dong, K. X., Xu, C., Wong, K. K., Li, Z., Luginbuhl, D. J., Xu, C., Lyu, C., Qin, W., Li, J., Udeshi, N. D., Carr, et al  
2026
- **Author Correction: Repulsions instruct synaptic partner matching in an olfactory circuit.** *Nature*  
Li, Z., Lyu, C., Xu, C., Hu, Y., Luginbuhl, D. J., Caspi-Lebovic, A. B., Priest, J. M., Özkan, E., Luo, L.  
2026
- **Author Correction: Rewiring an olfactory circuit by altering cell-surface combinatorial code.** *Nature*  
Lyu, C., Li, Z., Xu, C., Kalai, J., Luo, L.  
2026
- **Rewiring an olfactory circuit by altering cell-surface combinatorial code.** *Nature*  
Lyu, C., Li, Z., Xu, C., Kalai, J., Luo, L.  
2025
- **Repulsions instruct synaptic partner matching in an olfactory circuit.** *Nature*  
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2025
- **Endocytome profiling uncovers cell-surface protein dynamics underlying neuronal connectivity.** *bioRxiv : the preprint server for biology*  
McLaughlin, C. N., Ji, H., Dong, K. X., Xu, C., Lam Wong, K. K., Li, Z., Luginbuhl, D. J., Xu, C., Lyu, C., Qin, W., Li, J., Udeshi, N. D., Carr, et al  
2025
- **Rewiring an olfactory circuit by altering the combinatorial code of cell-surface proteins.** *bioRxiv : the preprint server for biology*  
Lyu, C., Li, Z., Xu, C., Kalai, J., Luo, L.

2025

- **Dimensionality reduction simplifies synaptic partner matching in an olfactory circuit.** *Science (New York, N.Y.)*  
Lyu, C., Li, Z., Xu, C., Wong, K. K., Luginbuhl, D. J., McLaughlin, C. N., Xie, Q., Li, T., Li, H., Luo, L.  
2025; 388 (6746): 538-544
- **Repulsive interactions instruct synaptic partner matching in an olfactory circuit.** *Research square*  
Li, Z., Lyu, C., Xu, C., Hu, Y., Luginbuhl, D. J., Lehovic, A. B., Priest, J. M., Özkan, E., Luo, L.  
2025
- **Rewiring an olfactory circuit by altering the combinatorial code of cell-surface proteins.** *Research square*  
Lyu, C., Li, Z., Xu, C., Kalai, J., Luo, L.  
2025
- **Protocol for cell-type-specific single-cell labeling and manipulation in Drosophila using a sparse driver system.** *STAR protocols*  
Xu, C., Li, Z., Luo, L.  
2025; 6 (1): 103694
- **Repulsive interactions instruct synaptic partner matching in an olfactory circuit.** *bioRxiv : the preprint server for biology*  
Li, Z., Lyu, C., Xu, C., Hu, Y., Luginbuhl, D. J., Caspi-Lebovic, A. B., Priest, J. M., Ozkan, E., Luo, L.  
2025
- **Dimensionality reduction simplifies synaptic partner matching in an olfactory circuit.** *bioRxiv : the preprint server for biology*  
Lyu, C., Li, Z., Xu, C., Wong, K. K., Luginbuhl, D. J., McLaughlin, C. N., Xie, Q., Li, T., Li, H., Luo, L.  
2024
- **Molecular mechanisms of proteoglycan-mediated semaphorin signaling in axon guidance.** *Proceedings of the National Academy of Sciences of the United States of America*  
Nourisanami, F., Sobol, M., Li, Z., Horvath, M., Kowalska, K., Kumar, A., Vlasak, J., Koupilova, N., Luginbuhl, D. J., Luo, L., Rozbesky, D.  
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- **Molecular and cellular mechanisms of teneurin signaling in synaptic partner matching.** *Cell*  
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2024
- **Toward building a library of cell type-specific drivers across developmental stages.** *Proceedings of the National Academy of Sciences of the United States of America*  
Lyu, C., Li, Z., Luo, L.  
2023; 120 (35): e2312196120
- **Temporal evolution of single-cell transcriptomes of Drosophila olfactory projection neurons.** *eLife*  
Xie, Q., Brbic, M., Horns, F., Kolluru, S. S., Jones, R. C., Li, J., Reddy, A. R., Xie, A., Kohani, S., Li, Z., McLaughlin, C. N., Li, T., Xu, et al  
2021; 10
- **Live cell fluorescence imaging reveals dynamic production and loss of bacterial flagella.** *Molecular microbiology*  
Zhuang, X. Y., Guo, S., Li, Z., Zhao, Z., Kojima, S., Homma, M., Wang, P., Lo, C. J., Bai, F.  
2020
- **Transgenic Eimeria mitis expressing chicken interleukin 2 stimulated higher cellular immune response in chickens compared with the wild-type parasites** *FRONTIERS IN MICROBIOLOGY*  
Li, Z., Tang, X., Suo, J., Qin, M., Yin, G., Liu, X., Suo, X.  
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