



## Xing Liang

Basic Life Res Scientist  
Biology

### Bio

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#### ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, Biology

### Research & Scholarship

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#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Mechanism of MT polarity establishment during PVD neuron dendrite outgrowing in *C. elegans*.

### Publications

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#### PUBLICATIONS

- **Katanin-mediated severing generates microtubules during neurite outgrowth.** *Research square*  
Shen, K., Kawano, D., Liang, X., Taylor, C., Yee, C.  
2026
- **CRMP/UNC-33 maintains neuronal microtubule arrays by promoting individual microtubule rescue.** *Current biology : CB*  
Liang, X., Agulto, R., Eichel, K., Taylor, C. A., Paat, V. A., Deng, H., Ori-McKenney, K., Shen, K.  
2025
- **Endoplasmic Reticulum Exit Sites scale with somato-dendritic size in neurons.** *Molecular biology of the cell*  
Land, R., Fetter, R., Liang, X., Tzeng, C. P., Taylor, C. A., Shen, K.  
2023: mbcE23030090
- **Proximity labeling reveals non-centrosomal microtubule-organizing center components required for microtubule growth and localization.** *Current biology : CB*  
Sanchez, A. D., Branon, T. C., Cote, L. E., Papagiannakis, A., Liang, X., Pickett, M. A., Shen, K., Jacobs-Wagner, C., Ting, A. Y., Feldman, J. L.  
2021
- **Growth cone-localized microtubule organizing center establishes microtubule orientation in dendrites.** *eLife*  
Liang, X., Kokes, M., Fetter, R. D., Sallee, M. D., Moore, A. W., Feldman, J. L., Shen, K.  
2020; 9
- **The THO Complex Coordinates Transcripts for Synapse Development and Dopamine Neuron Survival.** *Cell*  
Maeder, C. I., Kim, J., Liang, X., Kaganovsky, K., Shen, A., Li, Q., Li, Z., Wang, S., Xu, X. Z., Li, J. B., Xiang, Y. K., Ding, J. B., Shen, et al  
2018
- **A Dendritic Guidance Receptor Complex Brings Together Distinct Actin Regulators to Drive Efficient F-Actin Assembly and Branching** *DEVELOPMENTAL CELL*  
Zou, W., Dong, X., Broederdorf, T. R., Shen, A., Kramer, D. A., Shi, R., Liang, X., Miller, D. M., Xiang, Y. K., Yasuda, R., Chen, B., Shen, K.  
2018; 45 (3): 362-+

- **Dynein and EFF-1 control dendrite morphology by regulating the localization pattern of SAX-7 in epidermal cells** *JOURNAL OF CELL SCIENCE*  
Zhu, T., Liang, X., Wang, X., Shen, K.  
2017; 130 (23): 4063–71
- **Sarcomeres Pattern Proprioceptive Sensory Dendritic Endings through UNC-52/Perlecan in *C. elegans*** *DEVELOPMENTAL CELL*  
Liang, X., Dong, X., Moerman, D. G., Shen, K., Wang, X.  
2015; 33 (4): 388–400
- **Conditional targeted genome editing using somatically expressed TALENs in *C. elegans*.** *Nature biotechnology*  
Cheng, Z., Yi, P., Wang, X., Chai, Y., Feng, G., Yang, Y., Liang, X., Zhu, Z., Li, W., Ou, G.  
2013; 31 (10): 934–7