Stanford



Xing Liang

Basic Life Res Scientist, Biology

Bio

ACADEMIC APPOINTMENTS

- Basic Life Res Scientist, Biology

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

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

Publications

PUBLICATIONS

- **Kinetochore proteins control microtubule dynamics in postmitotic neurons to regulate the formation of dendritic spines.** *Proceedings of the National Academy of Sciences of the United States of America*
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- **Katanin-mediated severing generates microtubules during neurite outgrowth.** *Research square*
  Shen, K., Kawano, D., Liang, X., Taylor, C., Yee, C.
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- **CRMP/UNC-33 maintains neuronal microtubule arrays by promoting individual microtubule rescue.** *Current biology : CB*
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- **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.
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- **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.
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- **The THO Complex Coordinates Transcripts for Synapse Development and Dopamine Neuron Survival** *CELL*
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- **The THO Complex Coordinates Transcripts for Synapse Development and Dopamine Neuron Survival.** *Cell*
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- **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.
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