



## Caitlin Taylor

Basic Life Res Scientist

Biology

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### Bio

#### ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, Biology

#### Publications

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#### PUBLICATIONS

- **Stochastic growth and ligand-receptor interaction-mediated stabilization generate stereotyped dendritic arbors.** *Nature neuroscience*  
Shi, R., Ho, X. Y., Tao, L., Bayless-Edwards, L., Taylor, C. A., Zhao, T., Zou, W., Lizzappi, M., Eichel, K., Mao, T., Shen, K.  
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
- **Histone deacetylase inhibition expands cellular proteostasis repertoires to enhance neuronal stress resilience.** *bioRxiv : the preprint server for biology*  
Taylor, C. A., Maor-Nof, M., Metzli-Raz, E., Hidalgo, A., Yee, C., Gitler, A. D., Shen, K.  
2024
- **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
- **Endocytosis in the axon initial segment maintains neuronal polarity.** *Nature*  
Eichel, K., Uenaka, T., Belapurkar, V., Lu, R., Cheng, S., Pak, J. S., Taylor, C. A., Sudhof, T. C., Malenka, R., Wernig, M., Ozkan, E., Perrais, D., Shen, et al  
2022
- **A Myt1 family transcription factor defines neuronal fate by repressing non-neuronal genes.** *eLife*  
Lee, J., Taylor, C. A., Barnes, K. M., Shen, A., Stewart, E. V., Chen, A., Xiang, Y. K., Bao, Z., Shen, K.  
2019; 8
- **RAB-10 Regulates Dendritic Branching by Balancing Dendritic Transport.** *PLoS genetics*  
Taylor, C. A., Yan, J., Howell, A. S., Dong, X., Shen, K.  
2015; 11 (12): e1005695
- **The unfolded protein response is required for dendrite morphogenesis** *ELIFE*  
Wei, X., Howell, A. S., Dong, X., Taylor, C. A., Cooper, R. C., Zhang, J., Zou, W., Sherwood, D. R., Shen, K.  
2015; 4