

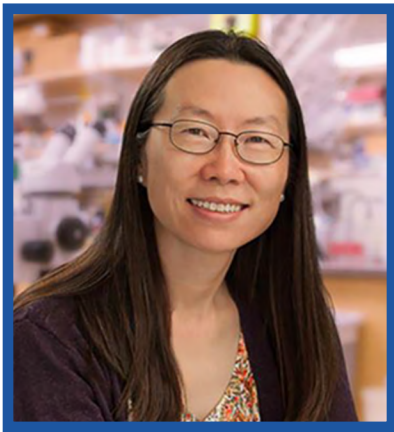
Mechanisms of Neuronal Injury and Stress Response

March 28

Tuesday, 12:30 pm

Billings Building—Rosedale Room and Zoom

SPEAKER:



Yishi Jin, Ph.D.

Distinguished Professor

Junior Seau Foundation Endowed Faculty Chair

Department of Neurobiology

School of Biological Sciences

Co-Director, Kavli Institute of Brain and Mind

Univ. Calif. San Diego

Host: Vibhu Sahni, Ph.D.

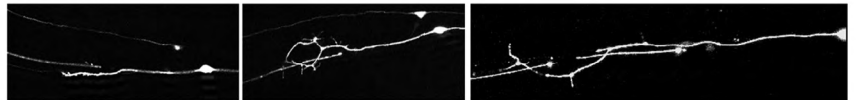
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Abstract

Using single axon injury assay in *C. elegans*, we systematically screened the function of >1500 *C. elegans* genes and identified numerous axon regeneration pathways. Among them, we have elucidated signaling pathways for the DLK-1 MAP kinase. In this talk, I will describe the findings and strategies to understand the context specificity of MAP kinase mediated signal transduction mechanisms.



Publications:

1. Chen, L., Wang, Z., Ghosh-Roy, A., Hubert, T., Yan, D., O'Rourke, S., Bowerman, B., Wu, Z., Jin, Y*, and Chisholm A.D.*. (2011). *Axon regeneration pathways identified by systematic genetic screening in C. elegans*. *Neuron* 71:1043-57. PMC3183436.
2. Kim, K. W., Tang, N. H., Piggott, C., Andrusiak, M., Park, S., Zhu, M., Kurup, N., Cherra, S., Wu, Z., Chisholm, A.D. and Jin, Y. (2018). *Expanded genetic screening in C. elegans identifies new regulators and an inhibitory role for NAD+ in axon regeneration*. *eLife*, Nov 21;7. pii: e39756. doi: 10.7554/eLife.39756. PMID:30461420. PMC62813183.
3. Andrusiak, M.G., Sharifnia, P., Lyu, X., Wang, Z., Dickey, A. M., Wu, Z., Chisholm A. D., and Jin, Y. (2019). *Inhibition of axon regeneration by liquid-like TIAR-2 granules*. *Neuron*, 104:290-304. PMC6813885