

Neurobiology of Sympathetic Neurons in Health and Trauma

April 9

Tuesday, 12:30 pm

**Billings Building
Rosedale Room**

SPEAKER:



Patricia Jillian Ward, Ph.D.

Assistant Professor

Department of Cell Biology
Emory University School of Medicine
Atlanta, GA

Hosts: Julia Kasier, Ph.D.

Vibhu Sahni, Ph.D.

For more information contact

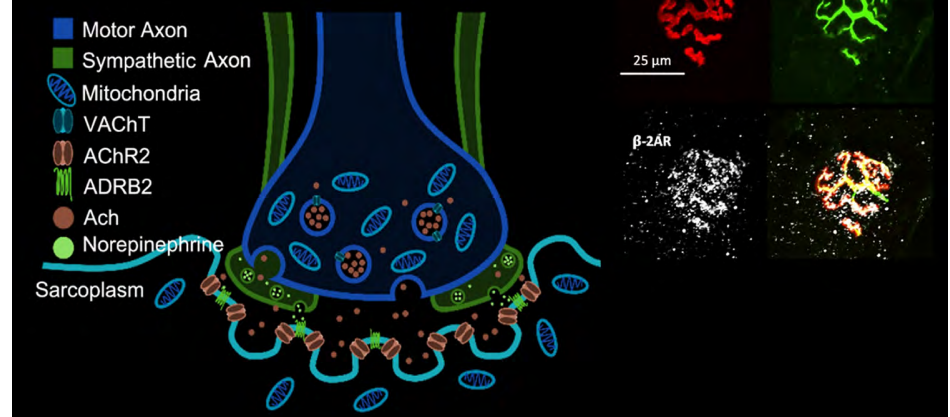
Darlene White

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Abstract

My research explores mechanisms of neuronal regeneration and plasticity following central or peripheral trauma with a recent emphasis on the regeneration of post-ganglionic sympathetic axons. I also examine how sympathetic innervation of skeletal muscle modulates behavior, function, and mitochondrial biology in normal and neural injury conditions, like spinal cord injury.

Sympathetic Signaling in the Neuromuscular Junction



Publications

1. Tian T, Moore A, Ghareeb PA, Boulis N, *Ward PJ. *A Perspective on Electrical Stimulation and Sympathetic Regeneration in Peripheral Nerve Injuries*. Neurotrauma Reports. 2024 *corresponding author.
2. Grlickova-Duzevik E, Michael M, McGrath-Conwell A, Neufeld P, Reimonn TM, Tian T, Owyong J, Molliver DC, *Ward PJ, *Harrison BJ. *Members of the CUGBP Elav-Like Family of RNA-Binding Proteins are Expressed in Distinct Populations of Primary Sensory Neurons*. DOI: 10.1002/cne.25520. Journal of Comparative Neurology. 2023 Aug;531(14):1425-1442; *Co-corresponding author.
3. Wariyar SS, Brown AD, Tian T, Pottorf T, Ward PJ*. *Angiogenesis is critical for the exercise-mediated enhancement of axon regeneration following peripheral nerve injury*. DOI: 10.1016/j.expneurol.2022.114029. Experimental Neurology. 2022 Mar 5;353:114029. *corresponding author.