Dr. Kaela Singleton  
Postdoctoral Fellow, Emory University  
Adjunct Professor, Agnes Scott College  
Co-Founder and President-Elect, Black In Neuro  

“Systems Biology approach to cellular and molecular phenotypes in neurodevelopmental disorders”

My postdoc research focuses on a Menkes disease, a progressive form of childhood neurodegeneration that is triggered by dysregulation of copper. Importantly, Menkes disease shares pathogenic mechanisms with both neurodevelopmental and neurodegenerative disorders. I am testing the hypothesis that deficits in ATP7A, a chief transporter required for copper homeostasis, activates the pink-parkin mitophagy pathway in order to trap damaged mitochondria within the soma, thus preventing mitochondria delivery to the synapse in patients with Menkes disease.

https://www.kaelasingleton.com/

Questions? Contact Brian Giebel at bgiebel@uw.edu or visit the Seminar website at http://www.gs.washington.edu/news/seminars.htm

The University of Washington is committed to providing access, equal opportunity and reasonable accommodations in its services, programs, activities, education and employment of individuals with disabilities. To request disability accommodations contact the Disability Services Office at least ten days in advance at: 206.543.6450/V, 206.543.6452/TTY, 206.685.7264 (FAX), or e-mail at dso@u.washington.edu