

## **Genome Sciences Seminar**

Wednesday, 12.8.21 | 3:30

held remotely: https://depts.washington.edu/gsrestrc/remote.htm



**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

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