The Biological and Biomedical Joint Seminar Series

(Hosted by the departments of Molecular & Cellular Biology, Chemistry & Biochemistry, Cellular & Molecular Medicine, and Plant Sciences)

"Activity-dependent dysregulation of RNA binding proteins in ALS"

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Tuesday December 3rd, 2019
ENR2 Room S107 @ 11AM

Hosted By: MCB Grad Students

Amytrophic lateral sclerosis (ALS) is a progressive and lethal disorder marked by the loss of motor neurons. The vast majority of individuals with ALS show mislocalization of TDP43, an essential RNA binding protein. Here, I discuss data suggesting that TDP43 pathology in ALS is mechanistically linked to neuronal hyperactivity, another conserved feature of ALS. I also discuss new results indicating that neuronal hyperactivity may broadly disrupt RNA binding protein metabolism in ALS and related neurodegenerative disorders.

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