The Biological and Biomedical Joint Seminar Series

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

"TDP-43 homeostasis is regulated by RNA binding"

Yuna Ayala, PhD

Associate Professor, Doisy Department of Biochemistry & Molecular Biology
Saint Louis University School of Medicine

Tuesday April 6th, 2021
Zoom Meeting @ 11AM

Hosted By: Daniela Zarnescu (MCB)

TDP-43 is an essential RNA binding protein regulating gene expression. Alterations in TDP-43 homeostasis are tied to neurodegeneration, as TDP-43 aggregation and dysfunction characterize amyotrophic lateral sclerosis (ALS) and frontotemporal dementia (FTD). We find that RNA binding strongly regulates TDP-43 solubility and self-assembly in a sequence-specific manner. Our results indicate that RNA binding plays a central role in TDP-43 proteostasis and that disruption of these interactions may underpin pathogenesis.

Zoom Link: https://arizona.zoom.us/j/85848818129

To see all upcoming seminars, please visit mcb.arizona.edu/events or join the MCB Seminar Listserv (listname: mcbjointseminar) at list.arizona.edu.

UA SCIENCE
Molecular & Cellular Biology