“TDP-43 homeostasis is regulated by RNA binding”

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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.

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