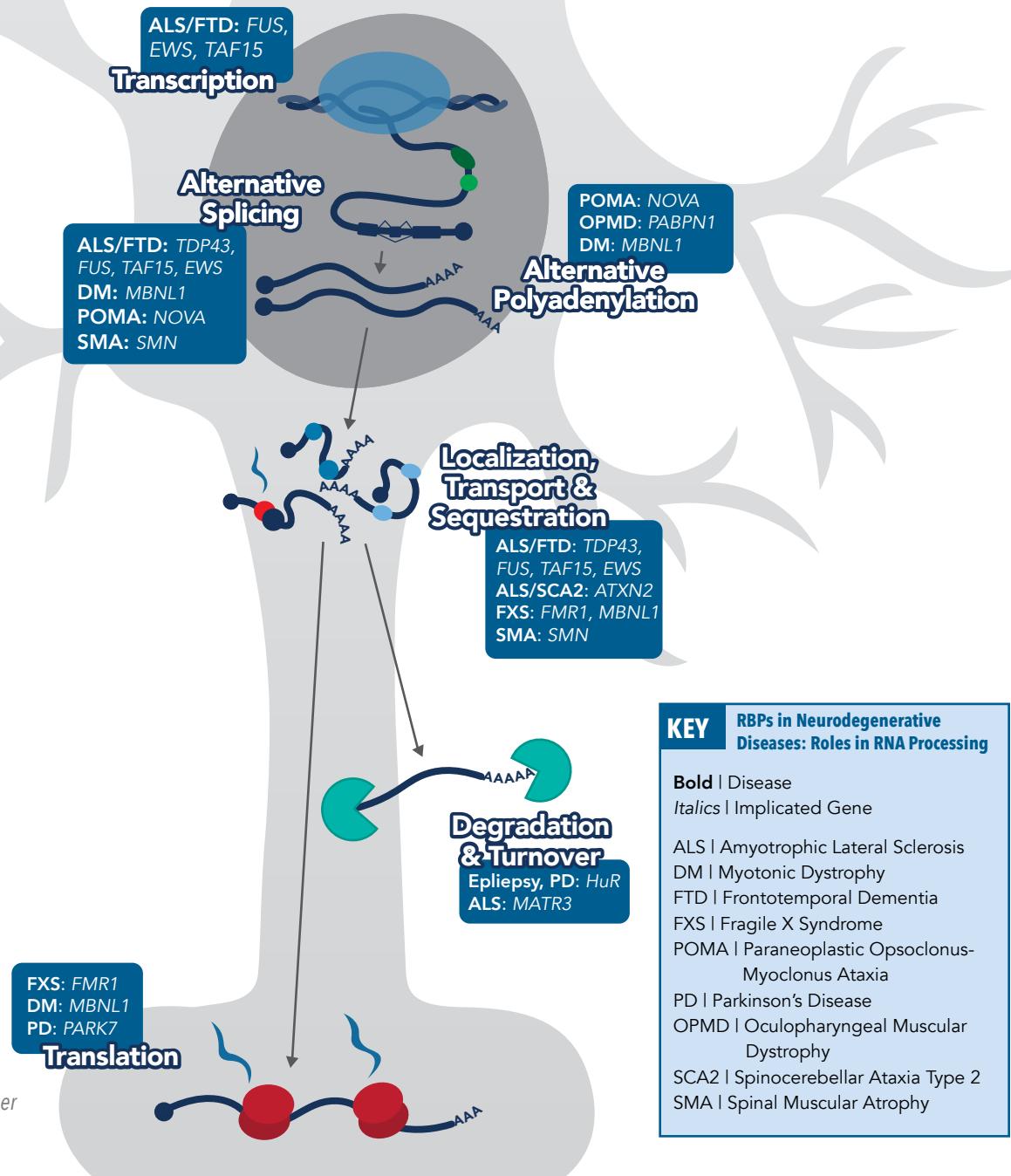


RNA Binding Proteins in Neurodegenerative Diseases

Dysregulation of RNA-binding proteins (RBPs) is a hallmark of neurodegeneration:

- RBP aggregation
- Mutant RBP toxic gain of function
- Sequestration and loss of function of RBPs



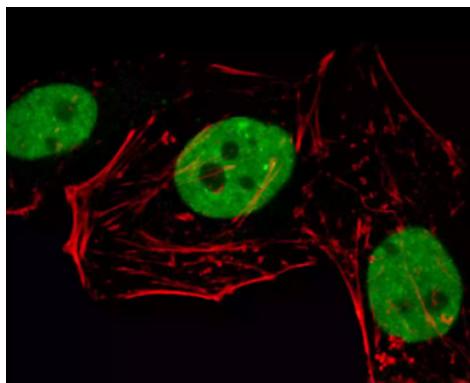
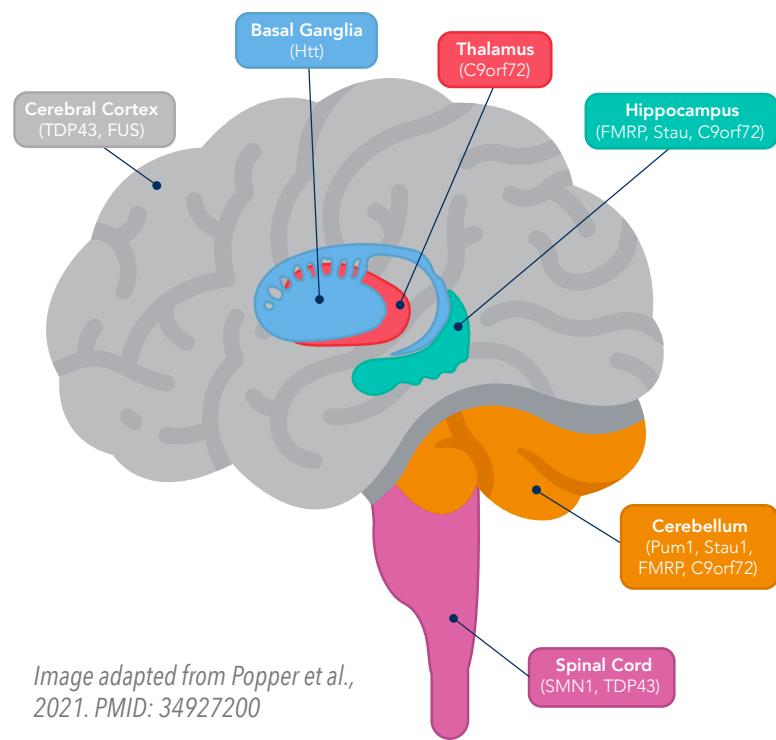
RNA Binding Protein Loss- and Gain-of-Function in Neurodegeneration

Loss-of-function

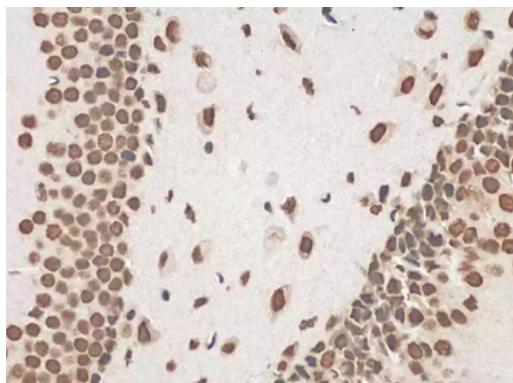
- FMRP
- FUS
- Hu proteins
- PTB1
- PUM1

Toxic gain-of-function

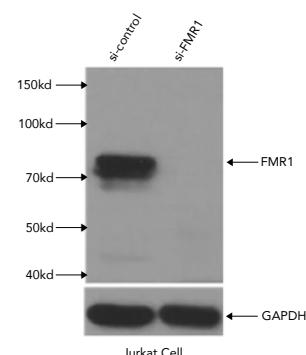
- ATXN2
- C9orf72 Di-peptide repeats
 - Poly-GP
 - Poly-PA
 - Poly-GR
 - Poly-PR
 - Poly-GA
- FUS
- TDP43



▲ **TDP-43 recombinant antibody:** IF of HepG2 cells using 80002-1-RR (green) and CoraLite555-phalloidin (red).



▲ **FUS/TLS monoclonal antibody:** IHC of mouse brain using 68262-1-Ig. Paraffin embedded. Tris-EDTA antigen retrieval.



▲ **FMR1 polyclonal antibody:** WB with 13755-1-AP. Knockdown validation in Jurkat cells.

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