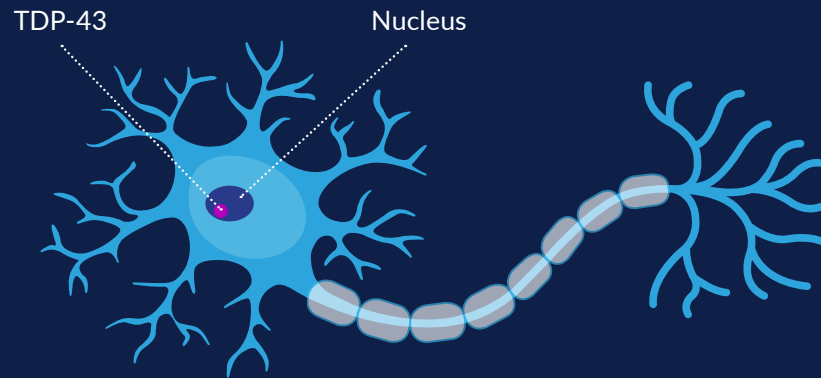


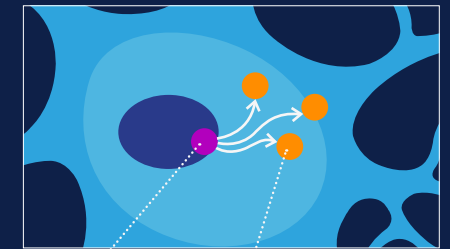
TDP-43

TDP-43 stands for: TAR DNA-BINDING PROTEIN 43

In healthy nerve cells, TDP-43 is normally found in the nucleus.



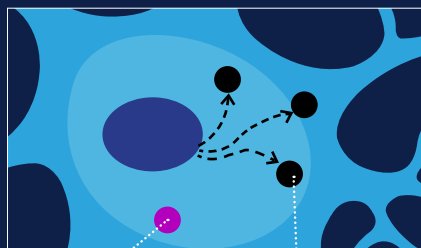
Here, it checks the quality of new proteins being made by the cell.



TDP-43

Healthy proteins,
checked by TDP-43

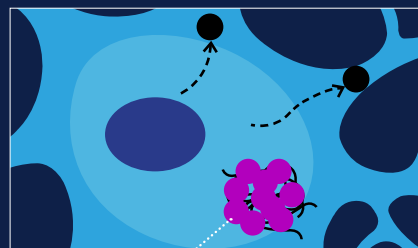
In MND, TDP-43 leaves the nucleus, losing its 'quality check' function, so the cell makes several faulty proteins...



TDP-43

Faulty proteins

...and when TDP-43 is outside the nucleus, it forms clumps that are toxic to the cell.



Toxic clumps of TDP-43

Over

90%

of MND cases are associated
with TDP-43 dysfunction.

OUR RESEARCHERS
ARE INVESTIGATING
WAYS TO STOP
& CLEAR THE
TOXIC BUILD-UP
OF TDP-43.