

Heterozygous knockout of Synaptotagmin13 phenocopies ALS features and TP53 activation in human motor neurons

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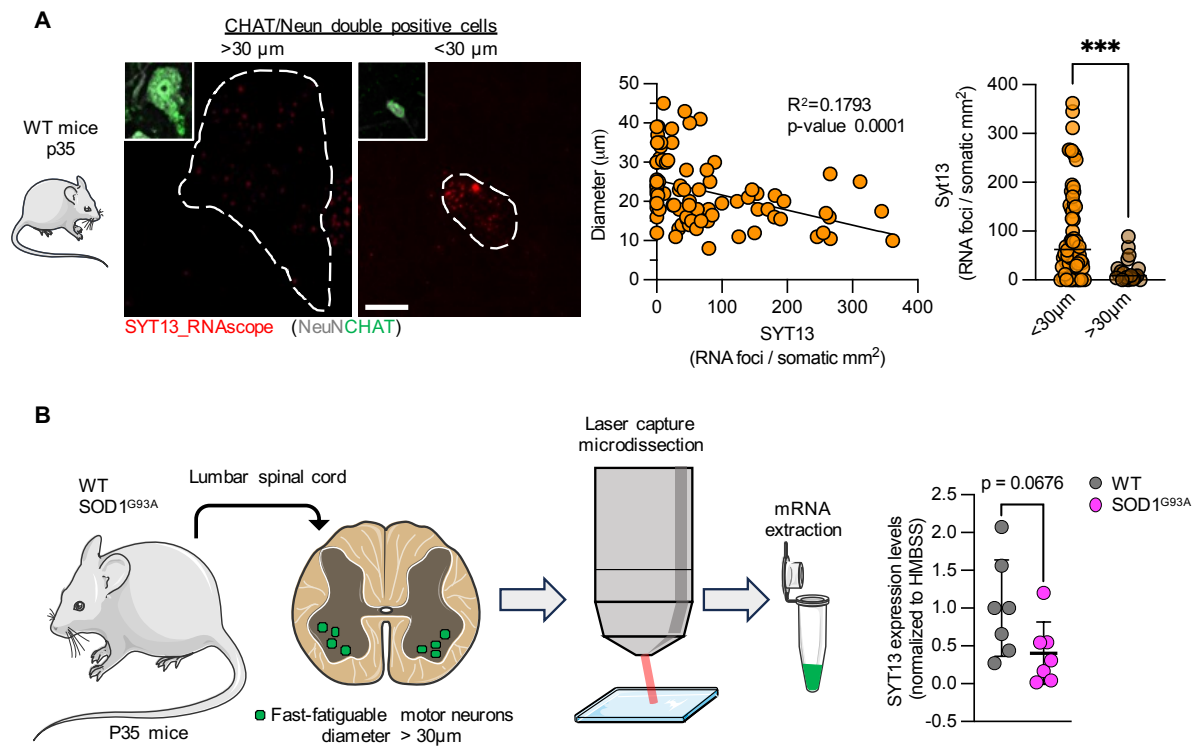
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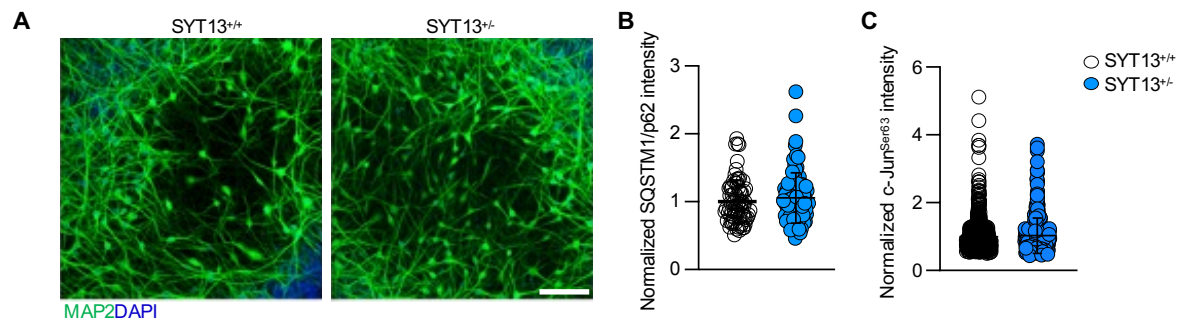
This file contains 2 Supplementary Figures



Supplementary Figure 1

(A) Representative confocal images of large (diameter > 30 μm) and small (diameter < 30 μm) motor neurons in the ventral horn of lumbar spinal cord sections of p35 WT mice. The larger (presumably FF) MNs have reduced SYT13 foci than smaller ones. Scale bar 10 μm . N = 87 MNs from 2 mice. * $p < 0.001$.

(B) Schematic representation of the workflow to isolate mRNA from FF MNs of WT and SOD1^{G93A} mice through laser microdissection. N = 7. $p = 0.0676$.



Supplementary Figure 2

(A) Representative confocal images of SYT13^{+/+} and SYT13^{+/-} cultures positively stained against MAP2 at DIV21. Scale bar 50 μ m.

(B) 3-weeks old SYT13^{+/-} MNs do not show accumulation of SQSTM1/p62.

(C) The levels of phospho-cJun are comparable in DIV21 SYT13^{+/+} and SYT13^{+/-} MNs.