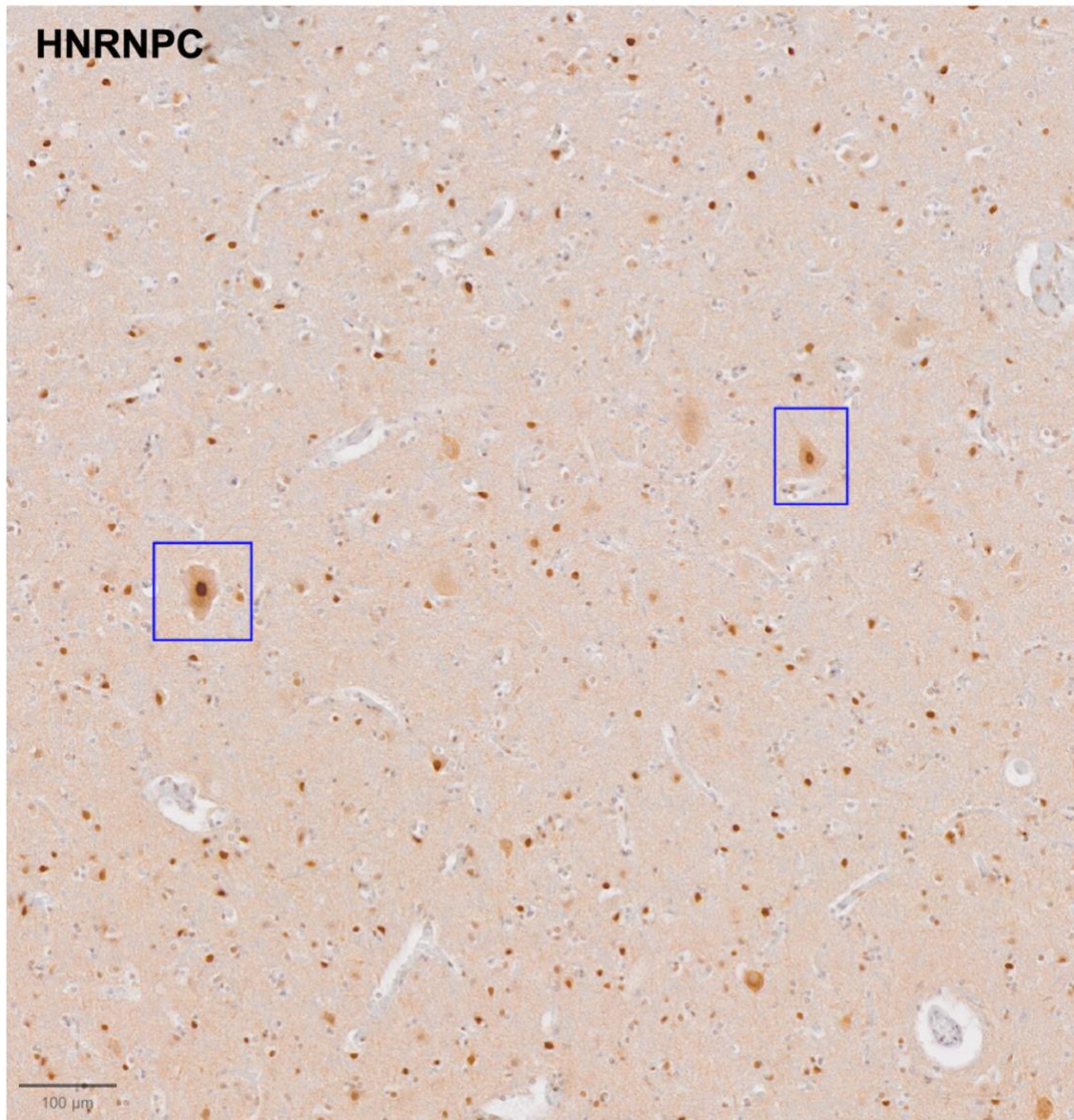
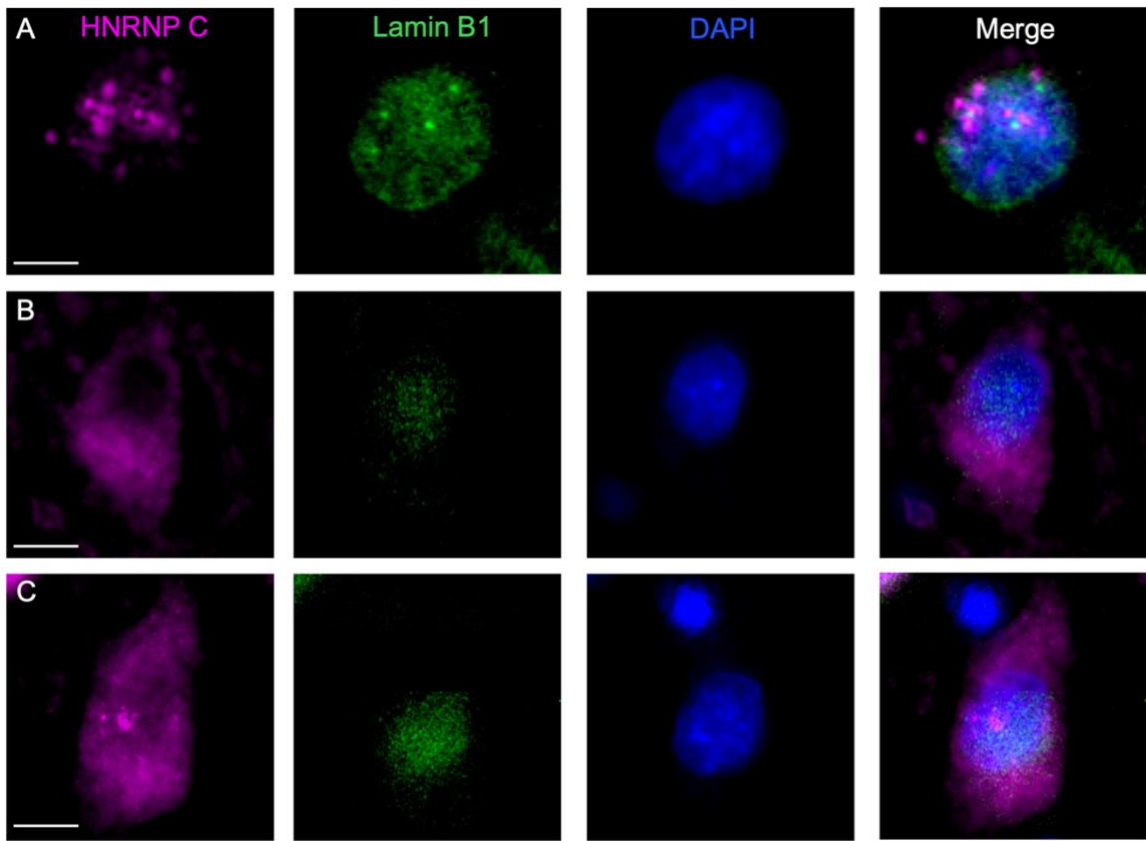


Supplementary Figure 1. Normal nuclear hnRNP A1, hnRNP A0, hnRNP A2B1, hnRNP C, hnRNP DL, hnRNP AB and hnRNP H2 were observed in the Betz cells and motor cortical neurons in the motor cortex with no significant difference in the proportion of neurons with normal nuclear hnRNPs identified between ALS and FTD cases (ANOVA $F(3,24) > 1.76$, $p > 0.1$). Scale bars 20 μm .

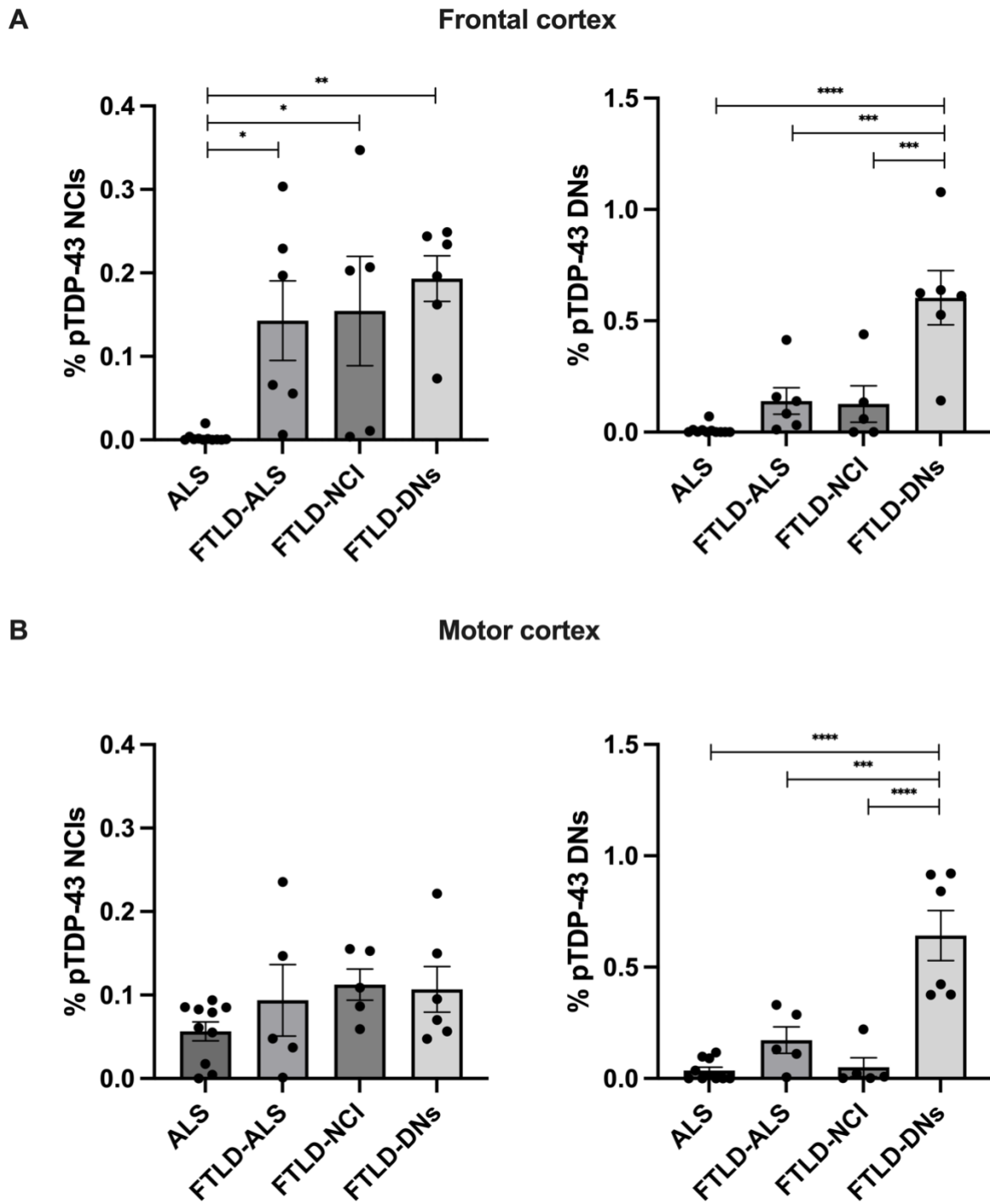
ALS Motor Cortex



Supplementary Figure 2. Betz cells were identified in the motor cortex by their large soma at lower magnification (10x) across the layer. Example of Betz cells with hnRNPC in the ALS motor cortex is shown. Scale bar 100 μm .



Supplementary Figure 3. Double-labelled immunofluorescence demonstrated Lamin-B1 in the nucleus of a neuron with normal hnRNP C from an ALS case (A) and mild loss of Lamin B1 in the nucleus of neurons with cytoplasmic hnRNP C from an FTL case (B, C). Scale bar 5 μ m.



Supplementary Figure 4. Percentage burden of pTDP-43 neuronal cytoplasmic inclusions (NCIs) and dystrophic neurites (DNs) in the frontal cortex (A) and motor cortex (B) of ALS, FTLD-ALS, FTLD-NCI and FTLD-DN cases. One-way ANOVA followed by Bonferonni test * $p < 0.05$, *** $p \leq 0.001$.