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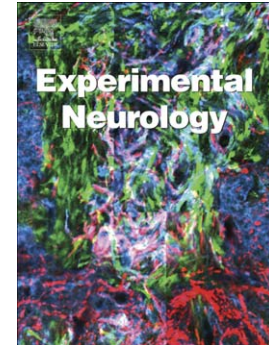
Overexpression of human mutated G93A SOD1 changes dynamics of the ER mitochondria calcium cycle specifically in mouse embryonic motor neurons

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Running title: G93A hSOD1 changes ERMCC dynamics in motor neurons

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²Abbreviations

ALS - amyotrophic lateral sclerosis, AMPA - α -amino-5-methyl-3-hydroxyisoxazolone-4-propionat, CaBP - calcium binding proteins, CPA - cyclopiazonic acid, CsA - cyclosporine A, eIF2 α - eukaryotic translation initiation factor 2 α , EMD - earth mover's distance, ERMCC - ER mitochondria calcium cycle, FUS/TLS - fused in sarcoma/translated in liposarcoma, hSOD1 - human superoxide dismutase 1, mNCE - mitochondrial sodium calcium exchanger, mPTP - mitochondrial permeability transition pore, mUP - mitochondrial uniporter, SERCA - sarco-/endoplasmic reticulum ATPase, TDP-43 - transactive response (TAR) DNA-binding protein-43, TTX - tetrodotoxin, UPR - unfolded protein response, VAPB - vesicle-associated membrane protein (VAMP)-associated protein B, VCP - valosin containing protein, VGCC - voltage gated calcium channels, XBP1 - X-box binding protein 1

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