Table S2   Mating scheme for cell-specific expression of SOD1

CELL TYPE	STATUS	MATING SCHEME	REPLICATES	AGES
Motoneuron	Control	D42-Gal4 X UAS-dSOD1^{wt}	3	5d, 45d
Motoneuron	Experimental	D42-Gal4 X UAS-hSOD1^{G85R}	3	5d, 45d
Glia	Control	M1B-Gal4 X UAS-dSOD1^{wt}	3	5d, 45d
Glia	Experimental	M1B-Gal4 X UAS-hSOD1^{G85R}	3	5d, 45d
Motoneuron + Glia	Control	D42-Gal4, M1B-Gal4 X UAS-dSOD1^{wt}	3	5d, 45d
Motoneuron + Glia	Experimental	D42-Gal4, M1B-Gal4 X UAS-hSOD1^{G85R}	3	5d, 45d

Mating scheme for cell-specific expression of SOD1. The UAS-Gal4 system in was used to drive cell specific expression of SOD1. To drive expression of SOD1 in motoneurons, flies containing the D42-Gal4 driver were crossed to flies containing UAS-dSOD1^{wt} and UAS-hSOD1^{G85R}. To drive expression of SOD1 in glia, flies containing the M1B-Gal4 driver were crossed to flies containing UAS-dSOD1^{wt} and UAS-hSOD1^{G85R}. To drive expression of SOD1 in motoneurons,and glia, flies containing both the D42-Gal4, M1B-Gal4 drivers were crossed to flies containing UAS-dSOD1^{wt} and UAS-hSOD1^{G85R}. Three biological replicates consisting of 40 adult male flies were harvested at 5 days and 45 days post eclosion.