

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Kinematic analysis of a SOD1^{G93A} mouse at P112 at a speed of 10 cm/s (average phenotype of SOD1^{G93A} mice at this timepoint). Video was recorded at 150 frames/s, and it is shown at 30 frames/s.

File Name: Supplementary Movie 2

Description: Kinematic analysis of a SOD1^{G93A};En1^{cre} mouse at P112 at a speed of 15 cm/s (average phenotype of SOD1^{G93A};En1^{cre} mice at this timepoint), showing differences in hindlimb hyperflexion and in the angle of the mouse body from the belt. Video was recorded at 150 frames/s, and it is shown at 30 frames/s.