



SOD1-G93A Transgenic Mouse Model

This Amyotrophic Lateral Sclerosis (ALS) mouse model overexpresses the human SOD1 (superoxide dismutase 1) with C93A mutation under the regulatory control of the human SOD1 promoter.

- SOD1 accumulation in spinal cord, 

   brain stem and midbrain
- Motor neuron loss in spinal cord and brain regions such as the SN
- Neuron loss accompanied by neuroinflammation
- Strong involvement of astrocytes and microglia
- Severe motor deficits starting at 12 weeks and worsening over age

Wire Hanging

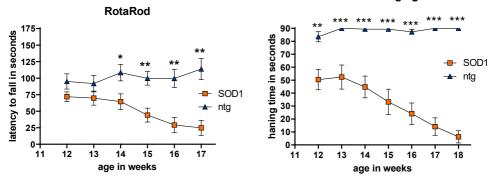


Figure 1: RotaRod and Wire hanging test of 12 - 18 weeks old SOD1-C93A mice compared to non-transgenic (ntg) mice. Time animals stay on the rod or keep hanging on the wire. Two-way ANOVA with Bonferroni's *post hoc* test. Mean  $\pm$  SEM; n = 12 - 18; \*p<0.05, \*\*p<0.01, \*\*\*p<0.001.

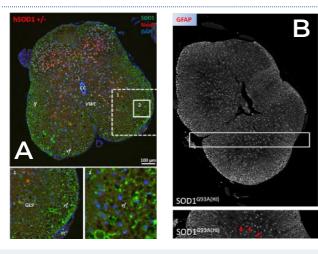


Figure 2A: SOD1 expression and neuronal loss in the spinal cord of SOD1G93A mice. B: Astrocytosis in the spinal cord of SOD1-G93A mice.

Gurney et al. Motor neuron degeneration in mice that express a human Cu, Zn superoxide dismutase mutation. Science 1994; 264 (5166):1772-5.



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