

ALS



SOD1-G93A Transgenic Mouse Model

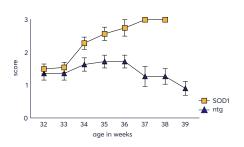
This Amyotrophic Lateral Sclerosis (ALS) mouse model overexpresses the human SOD1 (superoxide dismutase 1) with G93A mutation under the regulatory control of the human SOD1 promoter.

- 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

Figure 1:
RotaRod and Wire
hanging test of 12 - 18
weeks old SOD1-G93A
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 ± SEM; n =
12 - 18; *p<0.05, **p<0.01,
***p<0.001.

RotaRod

Figure 1: A



Wire Hanging

Figure 1: B

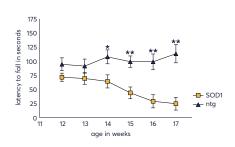
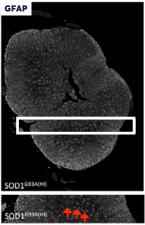


Figure 2:
A: SOD1 expression and neuronal loss in the spinal cord of SOD1G93A mice.
B: Astrocytosis in the spinal cord of SOD1-G93A mice.

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

Figure 2: B



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Discovery

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