

Resource Summary Report

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B6.Cg-Tg(SOD1*G93A)1Gur/J

RRID:IMSR_JAX:004435

Type: Organism

Proper Citation

RRID:IMSR_JAX:004435

Organism Information

URL: <https://www.jax.org/strain/004435>

Proper Citation: RRID:IMSR_JAX:004435

Description: Mus musculus with name B6.Cg-Tg(SOD1*G93A)1Gur/J from IMSR.

Species: Mus musculus

Synonyms: B6.Cg-Tg(SOD1-G93A)1Gur/J/J. B6.Cg-Tg(SOD1-G93A)1Gur/J

Notes: gene symbol note: superoxide dismutase 1|transgene insertion 1; Mark E Gurney; mutant strain|congenic strain: SOD1|Tg(SOD1*G93A)1Gur

Affected Gene: superoxide dismutase 1|transgene insertion 1; Mark E Gurney

Genomic Alteration: transgene insertion 1; Mark E Gurney

Catalog Number: JAX:004435

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.Cg-Tg(SOD1*G93A)1Gur/J

Record Creation Time: 20250513T053645+0000

Record Last Update: 20260725T044354+0000

Ratings and Alerts

No rating or validation information has been found for B6.Cg-Tg(SOD1*G93A)1Gur/J.

No alerts have been found for B6.Cg-Tg(SOD1*G93A)1Gur/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 145 mentions in open access literature.

Listed below are recent publications. The full list is available at [RRID](#) .

Lenoel I, et al. (2025) ALS/FTD-linked TBK1 deficiency in microglia induces an aged-like microglial signature and drives social recognition deficits in mice. *Nature communications*, 16(1), 7951.

Zelic M, et al. (2025) Single-cell transcriptomic and functional studies identify glial state changes and a role for inflammatory RIPK1 signaling in ALS pathogenesis. *Immunity*, 58(4), 961.

Cocozza G, et al. (2025) GDF15-GFRAL signaling drives weight loss and lipid metabolism in mouse model of amyotrophic lateral sclerosis. *Brain, behavior, and immunity*, 124, 280.

Thau-Habermann N, et al. (2025) Parthenolide regulates microglial and astrocyte function in primary cultures from ALS mice and has neuroprotective effects on primary motor neurons. *PloS one*, 20(3), e0319866.

Galloway DA, et al. (2025) miR-146a is a Pleiotropic Regulator of Motor Neuron Degeneration. *bioRxiv : the preprint server for biology*.

Lum JS, et al. (2025) A polytherapy approach demonstrates therapeutic efficacy for the treatment of SOD1 associated amyotrophic lateral sclerosis. *EBioMedicine*, 115, 105692.

Dogan EO, et al. (2025) Genetic Ablation of Sarm1 Mitigates Disease Acceleration after Traumatic Brain Injury in the SOD1G93A Transgenic Mouse Model of Amyotrophic Lateral Sclerosis. *Annals of neurology*, 97(5), 963.

Shelest O, et al. (2024) Delineating sex-dependent and anatomic decline of motor functions in the SOD1G93A mouse model of amyotrophic lateral sclerosis. *bioRxiv : the preprint server for biology*.

Bryson JB, et al. (2024) An optogenetic cell therapy to restore control of target muscles in an aggressive mouse model of amyotrophic lateral sclerosis. *eLife*, 12.

Nowicka N, et al. (2024) Novel insights into RAGE signaling pathways during the progression of amyotrophic lateral sclerosis in RAGE-deficient SOD1 G93A mice. *PloS one*, 19(3), e0299567.

Urban MW, et al. (2024) EphrinB2 knockdown in cervical spinal cord preserves diaphragm innervation in a mutant SOD1 mouse model of ALS. *eLife*, 12.

Hossain MA, et al. (2024) Evaluating protein cross-linking as a therapeutic strategy to stabilize SOD1 variants in a mouse model of familial ALS. *PLoS biology*, 22(1), e3002462.

Montañana-Rosell R, et al. (2024) Spinal inhibitory neurons degenerate before motor neurons and excitatory neurons in a mouse model of ALS. *Science advances*, 10(22), eadk3229.

Magri A, et al. (2024) AAV-mediated upregulation of VDAC1 rescues the mitochondrial respiration and sirtuins expression in a SOD1 mouse model of inherited ALS. *Cell death discovery*, 10(1), 178.

Hazell G, et al. (2024) Exercise, disease state and sex influence the beneficial effects of Fn14-depletion on survival and muscle pathology in the SOD1G93A amyotrophic lateral sclerosis (ALS) mouse model. *Skeletal muscle*, 14(1), 23.

Alfahel L, et al. (2024) Protocol for handling and using SOD1 mice for amyotrophic lateral sclerosis pre-clinical studies. *STAR protocols*, 5(4), 103459.

Watanabe S, et al. (2024) Ebselen analogues delay disease onset and its course in fALS by on-target SOD-1 engagement. *Scientific reports*, 14(1), 12118.

Komine O, et al. (2024) Genetic background variation impacts microglial heterogeneity and disease progression in amyotrophic lateral sclerosis model mice. *iScience*, 27(2), 108872.

Yan J, et al. (2024) TwinF interface inhibitor FP802 stops loss of motor neurons and mitigates disease progression in a mouse model of ALS. *Cell reports. Medicine*, 5(2), 101413.

Alfahel L, et al. (2024) Targeting low levels of MIF expression as a potential therapeutic strategy for ALS. *Cell reports. Medicine*, 5(5), 101546.