

Resource Summary Report

Generated by [NIF](#) on Sep 17, 2026

C57BL/10ScSnJ

RRID:IMSR_JAX:000476

Type: Organism

Proper Citation

RRID:IMSR_JAX:000476

Organism Information

URL: <https://www.jax.org/strain/000476>

Proper Citation: RRID:IMSR_JAX:000476

Description: Mus musculus with name C57BL/10ScSnJ from IMSR.

Species: Mus musculus

Synonyms: B10 Scotty Snell

Notes: gene symbol note: toll-like receptor 4; inbred strain: Tlr4

Affected Gene: toll-like receptor 4

Genomic Alteration: defective lipopolysaccharide response; deletion

Catalog Number: JAX:000476

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: C57BL/10ScSnJ

Record Creation Time: 20250513T053618+0000

Record Last Update: 20260912T060404+0000

Ratings and Alerts

No rating or validation information has been found for C57BL/10ScSnJ.

No alerts have been found for C57BL/10ScSnJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 114 mentions in open access literature.

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

Mastrostefano F, et al. (2025) Central Neurophysiological Alterations in Dystrophic mdx Mice Correlate With Reduced Hippocampal Levels of the Endogenous NMDA Receptor Ligand D-Aspartate. *Journal of neurochemistry*, 169(9), e70223.

Park SE, et al. (2024) Anti-necroptotic effects of human Wharton's jelly-derived mesenchymal stem cells in skeletal muscle cell death model via secretion of GRO-?. *PloS one*, 19(12), e0313693.

Matias-Valiente L, et al. (2024) Evaluation of pro-regenerative and anti-inflammatory effects of isolecanoric acid in the muscle: Potential treatment of Duchenne Muscular Dystrophy. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 170, 116056.

Hahn D, et al. (2023) Rapid restitution of contractile dysfunction by synthetic copolymers in dystrophin-deficient single live skeletal muscle fibers. *Skeletal muscle*, 13(1), 9.

Kalkan H, et al. (2023) Targeting gut dysbiosis against inflammation and impaired autophagy in Duchenne muscular dystrophy. *EMBO molecular medicine*, 15(3), e16225.

Mázala DAG, et al. (2023) Altered muscle niche contributes to myogenic deficit in the D2-mdx model of severe DMD. *Cell death discovery*, 9(1), 224.

Mázala DAG, et al. (2023) Altered muscle niche contributes to myogenic deficit in the D2-mdx model of severe DMD. *bioRxiv : the preprint server for biology*.

Morales ED, et al. (2023) Dwarf Open Reading Frame (DWORF) Gene Therapy Ameliorated Duchenne Muscular Dystrophy Cardiomyopathy in Aged mdx Mice. *Journal of the American Heart Association*, 12(3), e027480.

Acin-Perez R, et al. (2023) Inhibition of ATP synthase reverse activity restores energy homeostasis in mitochondrial pathologies. *The EMBO journal*, 42(10), e111699.

Boccanegra B, et al. (2023) Growth hormone secretagogues modulate inflammation and fibrosis in mdx mouse model of Duchenne muscular dystrophy. *Frontiers in immunology*, 14, 1119888.

Róg J, et al. (2023) Primary mouse myoblast metabotropic purinoceptor profiles and calcium signalling differ with their muscle origin and are altered in mdx dystrophinopathy. *Scientific reports*, 13(1), 9333.

G?owniak-Kwitek U, et al. (2023) Effect of heme oxygenase-1 on the differentiation of human myoblasts and the regeneration of murine skeletal muscles after acute and chronic injury. *Pharmacological reports* : PR, 75(2), 397.

Podkalicka P, et al. (2022) miR-378 affects metabolic disturbances in the mdx model of Duchenne muscular dystrophy. *Scientific reports*, 12(1), 3945.

Hart CC, et al. (2022) Evaluation of the DBA/2J mouse as a potential background strain for genetic models of cardiomyopathy. *Journal of molecular and cellular cardiology plus*, 1.

Kim SJ, et al. (2022) Wharton's Jelly-Derived Mesenchymal Stem Cells with High Aurora Kinase A Expression Show Improved Proliferation, Migration, and Therapeutic Potential. *Stem cells international*, 2022, 4711499.

Dubuisson N, et al. (2022) Inhibiting the inflammasome with MCC950 counteracts muscle pyroptosis and improves Duchenne muscular dystrophy. *Frontiers in immunology*, 13, 1049076.

Gan L, et al. (2022) A cell-penetrating peptide enhances delivery and efficacy of phosphorodiamidate morpholino oligomers in mdx mice. *Molecular therapy. Nucleic acids*, 30, 17.

Mortazavi M, et al. (2022) SNPs, short tandem repeats, and structural variants are responsible for differential gene expression across C57BL/6 and C57BL/10 substrains. *Cell genomics*, 2(3).

Dubuisson N, et al. (2022) Histological Methods to Assess Skeletal Muscle Degeneration and Regeneration in Duchenne Muscular Dystrophy. *International journal of molecular sciences*, 23(24).

Scripture-Adams DD, et al. (2022) Single nuclei transcriptomics of muscle reveals intra-muscular cell dynamics linked to dystrophin loss and rescue. *Communications biology*, 5(1), 989.