# Resource Summary Report

Generated by kravitz2 on Sep 19, 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:** 20260919T054807+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 kravitz2 .


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.

Gosselin MRF, et al. (2022) Loss of full-length dystrophin expression results in major cell-autonomous abnormalities in proliferating myoblasts. eLife, 11.

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).

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).