

Resource Summary Report

Generated by [kravitz2](#) on Aug 25, 2026

BALB/cNctr-Npc1^{m1N}/J

RRID:IMSR_JAX:003092

Type: Organism

Proper Citation

RRID:IMSR_JAX:003092

Organism Information

URL: <https://www.jax.org/strain/003092>

Proper Citation: RRID:IMSR_JAX:003092

Description: Mus musculus with name BALB/cNctr-Npc1^{m1N}/J from IMSR.

Species: Mus musculus

Synonyms: BALB/cNctr-Npc1/+

Notes: gene symbol note: NPC intracellular cholesterol transporter 1; mutant strain: Npc1

Affected Gene: NPC intracellular cholesterol transporter 1

Genomic Alteration: Niemann Pick type C1 NIH

Catalog Number: JAX:003092

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: BALB/cNctr-Npc1^{m1N}/J

Record Creation Time: 20250513T053637+0000

Record Last Update: 20260815T050546+0000

Ratings and Alerts

No rating or validation information has been found for BALB/cNctr-Npc1^{m1N}/J.

No alerts have been found for BALB/cNctr-Npc1^{m1N}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 61 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Javanshad R, et al. (2024) Endogenous Protein-Protein Interaction Network of the NPC Cholesterol Transporter 1 in the Cerebral Cortex. Journal of proteome research, 23(8), 3174.

Nguyen TTA, et al. (2024) Comparative Hippocampal Proteome and Phosphoproteome in a Niemann-Pick, Type C1 Mouse Model Reveal Insights into Disease Mechanisms. Journal of proteome research, 23(1), 84.

Han S, et al. (2023) Lithium ameliorates Niemann-Pick C1 disease phenotypes by impeding STING/SREBP2 activation. iScience, 26(5), 106613.

Cachón-González MB, et al. (2023) Upregulation of non-canonical and canonical inflammasome genes associates with pathological features in Krabbe disease and related disorders. Human molecular genetics, 32(8), 1361.

Khamidova N, et al. (2023) DBDA matrix increases ion abundance of fatty acids and sulfatides in MALDI-TOF and mass spectrometry imaging studies. bioRxiv : the preprint server for biology.

Yerger J, et al. (2022) Phenotype assessment for neurodegenerative murine models with ataxia and application to Niemann-Pick disease, type C1. Biology open, 11(4).

Rituper B, et al. (2022) Vesicle cholesterol controls exocytotic fusion pore. Cell calcium, 101, 102503.

Cawley NX, et al. (2022) Complex N-Linked Glycosylation: A Potential Modifier of Niemann-Pick Disease, Type C1 Pathology. International journal of molecular sciences, 23(9).

Gray J, et al. (2022) Heat shock protein amplification improves cerebellar myelination in the Npc1nih mouse model. EBioMedicine, 86, 104374.

Antipova V, et al. (2022) Organ Weights in NPC1 Mutant Mice Partly Normalized by Various Pharmacological Treatment Approaches. International journal of molecular sciences, 24(1).

Du J, et al. (2021) The Effects of Combined Therapy With Metformin and Hydroxypropyl- β -Cyclodextrin in a Mouse Model of Niemann-Pick Disease Type C1. Frontiers in pharmacology, 12, 825425.

Kaya E, et al. (2021) Acetyl-leucine slows disease progression in lysosomal storage disorders. *Brain communications*, 3(1), fcaa148.

Cougnoux A, et al. (2021) Reduction of glutamate neurotoxicity: A novel therapeutic approach for Niemann-Pick disease, type C1. *Molecular genetics and metabolism*, 134(4), 330.

Hong S, et al. (2021) Induced neural stem cells from human patient-derived fibroblasts attenuate neurodegeneration in Niemann-Pick type C mice. *Journal of veterinary science*, 22(1), e7.

Van Hoecke L, et al. (2021) Involvement of the Choroid Plexus in the Pathogenesis of Niemann-Pick Disease Type C. *Frontiers in cellular neuroscience*, 15, 757482.

Davidson CD, et al. (2021) Improved systemic AAV gene therapy with a neurotrophic capsid in Niemann-Pick disease type C1 mice. *Life science alliance*, 4(10).

van der Lienden MJC, et al. (2021) GCase and LIMP2 Abnormalities in the Liver of Niemann Pick Type C Mice. *International journal of molecular sciences*, 22(5).

Colombo A, et al. (2021) Loss of NPC1 enhances phagocytic uptake and impairs lipid trafficking in microglia. *Nature communications*, 12(1), 1158.

Han S, et al. (2021) Cerebellar Long Noncoding RNA Expression Profile in a Niemann-Pick C Disease Mouse Model. *Molecular neurobiology*, 58(11), 5826.

Roney JC, et al. (2021) Lipid-mediated motor-adaptor sequestration impairs axonal lysosome delivery leading to autophagic stress and dystrophy in Niemann-Pick type C. *Developmental cell*, 56(10), 1452.