

Resource Summary Report

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BALB/cJ

RRID:IMSR_JAX:000651

Type: Organism

Proper Citation

RRID:IMSR_JAX:000651

Organism Information

URL: <https://www.jax.org/strain/000651>

Proper Citation: RRID:IMSR_JAX:000651

Description: Mus musculus with name BALB/cJ from IMSR.

Species: Mus musculus

Synonyms: C. BALBc

Notes: gene symbol note: MX dynamin-like GTPase 1|cytochrome c oxidase subunit 7A2 like|beta-2 microglobulin|hippocampal lamination defect|cadherin related 23 (otocadherin)|zinc fingers and homeoboxes 2|microwave induced increase in complement receptor B cells|hemoglobin beta chain complex; inbred strain: Mx1|Cox7a2l|B2m|Hld|Cdh23|Zhx2|Micr|Hbb

Affected Gene: MX dynamin-like GTPase 1|cytochrome c oxidase subunit 7A2 like|beta-2 microglobulin|hippocampal lamination defect|cadherin related 23 (otocadherin)|zinc fingers and homeoboxes 2|microwave induced increase in complement receptor B cells|hemoglobin beta chain complex

Genomic Alteration: myxovirus susceptibility 1|short|a variant|hippocampal lamination defect|age related hearing loss 1|BALB/cJ|non-responder|d

Catalog Number: JAX:000651

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: BALB/cJ

Record Creation Time: 20250513T053620+0000

Record Last Update: 20260725T044328+0000

Ratings and Alerts

- Used for genotyping by the Human Islet Research Network community. Contact(s): Seung Kim, Charles Chang, Simona Chera, Pedro Herrera - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for BALB/cJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 1772 mentions in open access literature.

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

Luo J, et al. (2026) Discovery of the late autophagy inhibitor FZU?0045?053 and its anti? breast cancer and immunomodulatory effects. International journal of oncology, 68(1).

Coon-Haworth MR, et al. (2026) 3D printed collimators and dosimetry for spatially fractionated radiation therapy. Journal of applied clinical medical physics, 27(1), e70422.

Bhavsar D, et al. (2026) Structural and functional characterization of the antigenicity of influenza A virus hemagglutinin subtype H15. Cell reports, 45(1), 116773.

Galeano Niño JL, et al. (2026) Tumor-infiltrating bacteria disrupt cancer epithelial cell interactions and induce cell-cycle arrest. Cancer cell, 44(1), 166.

Rainwater RR, et al. (2026) DNA-PKcs controls the cytotoxic T cell response to cancer and transplant allograft through regulating LAT-dependent signaling. Cell reports, 45(1), 116796.

Khan F, et al. (2026) Microglial TBK1 Signaling Promotes Breast Cancer Brain Metastasis. Cancer research, 86(1), 12.

Zhong T, et al. (2026) Anti-NSCLC efficacy of a novel ROR1/PI3K?/BRD4 multi-target inhibitor. Bioorganic & medicinal chemistry, 132, 118483.

Yokoyama Y, et al. (2026) A novel calcium influx inducer and a TLR7 agonist are synergistic co-adjuvants that enhance cross-reactive immunity against influenza in young and aged mice. Vaccine, 74, 128189.

- Zhao Y, et al. (2026) Magnetic fluorescent carbon dots synthesized via one-pot approach for tumor photothermal therapy. *iScience*, 29(1), 114366.
- Monteiro AC, et al. (2026) OPG-Producing B Cells and RANKL-Expressing T Cells Define Immune Signatures Predictive of Bone Metastases in Breast Cancer. *Cancer research communications*, 6(1), 85.
- Carlson HL, et al. (2026) MYST acetyltransferases are a targetable therapeutic vulnerability in SETBP1-mutant leukemia. *bioRxiv : the preprint server for biology*.
- Koleske B, et al. (2025) In vivo profiling of the PE/PPE proteins of *Mycobacterium tuberculosis* reveals diverse contributions to virulence. *Frontiers in microbiology*, 16, 1634229.
- Bachtel ND, et al. (2025) Intestinal mast cell-derived leukotrienes mediate the anaphylactic response to ingested antigens. *Science (New York, N.Y.)*, 389(6760), eadp0246.
- Palzkill VR, et al. (2025) A 6-Minute Limb Function Assessment for Therapeutic Testing in Experimental Peripheral Artery Disease Models. *JACC. Basic to translational science*, 10(1), 88.
- Cruz-Cruz AD, et al. (2025) B Cells as a Host of Persistent *Salmonella Typhimurium*. *Immunology*, 175(3), 292.
- Liu X, et al. (2025) A monoclonal anti-hemagglutinin stem antibody modified with zanamivir protects against both influenza A and B viruses. *Proceedings of the National Academy of Sciences of the United States of America*, 122(15), e2424889122.
- Ransey E, et al. (2025) Long-term editing of brain circuits in mice using an engineered electrical synapse. *bioRxiv : the preprint server for biology*.
- Orso R, et al. (2025) Sex-Specific Effects of Early-Life Stress Exposure on Memory Performance and the Medial Prefrontal Cortex Transcriptomic Pattern in Adolescent Mice. *Molecular neurobiology*, 62(7), 8728.
- Shriver LP, et al. (2025) Integrative multi-omics analysis in vivo identifies influenza virus host factors. *iScience*, 28(11), 113644.
- Biswas A, et al. (2025) Inverted H1 hemagglutinin nanoparticle vaccines protect mice against challenges with human H1N1 and bovine H5N1 influenza viruses. *NPJ vaccines*, 10(1), 225.