

Resource Summary Report

Generated by [kravitz2](#) on Sep 4, 2026

BALB/cByJ

RRID:IMSR_JAX:001026

Type: Organism

Proper Citation

RRID:IMSR_JAX:001026

Organism Information

URL: <https://www.jax.org/strain/001026>

Proper Citation: RRID:IMSR_JAX:001026

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

Species: Mus musculus

Synonyms: BALB/c Bailey Jackson. BALB Bailey Jackson

Notes: gene symbol note: beta-2 microglobulin|mandibular morphogenesis 1|cytohesin 1|hippocampal lamination defect|cadherin related 23 (otocadherin)|aryl-hydrocarbon receptor|NDV-induced circulating interferon|acyl-Coenzyme A dehydrogenase; short chain; inbred strain: B2m|Mdmg1|Cyth1|Hld|Cdh23|Ahr|If1|Acads

Affected Gene: beta-2 microglobulin|mandibular morphogenesis 1|cytohesin 1|hippocampal lamination defect|cadherin related 23 (otocadherin)|aryl-hydrocarbon receptor|NDV-induced circulating interferon|acyl-Coenzyme A dehydrogenase; short chain

Genomic Alteration: a variant||mutation 1; Jackson|hippocampal lamination defect|age related hearing loss 1|b-2 variant|low response|deletion; Jackson

Catalog Number: JAX:001026

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: BALB/cByJ

Record Creation Time: 20250513T053623+0000

Record Last Update: 20260829T044919+0000

Ratings and Alerts

- Used for genotyping by the Human Islet Research Network community. Contact(s): [Mark S. Anderson](#) - Human Islets Research Network <https://hirnetwork.org/>

No alerts have been found for BALB/cByJ.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 583 mentions in open access literature.

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

Moore SJ, et al. (2026) Acarbose improves cognitive function in a mouse model of normal aging but not Alzheimer's disease. bioRxiv : the preprint server for biology.

Lin ST, et al. (2026) Analysis of retinal ganglion cell subtypes across six different inbred mouse strains. Molecular vision, 32, 120.

Zhao J, et al. (2026) More insights from Abca4^{-/-} mouse models of recessive Stargardt disease. The Journal of biological chemistry, 302(3), 111261.

Ho TY, et al. (2026) Clove (*Syzygium aromaticum*) and its bioactive constituent eugenol alleviate psoriatic inflammation by modulating the IL-36/IL-17A axis: a proteomic and mechanistic study. Frontiers in pharmacology, 17, 1839501.

Alcaraz-Serna A, et al. (2026) Chimeric allergen receptor regulatory T cells suppress birch pollen allergic airway inflammation. The Journal of experimental medicine, 223(8).

Marsères G, et al. (2026) Adoptive ?? T cell therapy controls cytomegalovirus infection in preclinical transplantation models. Nature communications, 17(1).

Hou YJ, et al. (2026) Hedyotis diffusa Suppresses Colitis-Associated Colorectal Cancer via Inhibition of the IL-17A-IL-17RA Axis and NF-?B Signaling. International journal of molecular sciences, 27(4).

Schneider S, et al. (2026) Oncolytic virus-delivered GSDME: Unlocking pyroptosis to improve dendritic cell function and amplify cytotoxic T cell response. Molecular therapy. Oncology, 34(3), 201264.

Sivill S, et al. (2026) Impact of cross-linking stoichiometry on the structure and allergenicity of glutaraldehyde-polymerized allergen extracts. Frontiers in immunology, 17, 1748277.

Tyshkovskiy A, et al. (2026) Universal transcriptomic hallmarks of mammalian ageing and mortality. *Nature*, 654(8117), 173.

Christenson JL, et al. (2026) Metastasis-Associated Wound Repair Promotes Reciprocal Lung Epithelium Activation and Breast Cancer Metastatic Outgrowth. *Cancer research communications*, 6(4), 750.

Xia Z, et al. (2026) PI3K and MAPK Signaling Nodes Serve as Divergent Drivers of Phenotypic Plasticity in Cancer-Associated Fibroblasts in Colorectal Cancer. *Cancer research*, 86(12), 3040.

Wang Y, et al. (2026) Metabolic reinvigoration of NK cells by IL-21 enhances immunotherapy against MHC class I-deficient solid tumors. *Cell reports*, 45(3), 117035.

Barata MA, et al. (2026) Protocol for semi-automatic quantitative bioimaging analysis of synapse loss. *STAR protocols*, 7(3), 104675.

Boyle LM, et al. (2025) The ventral CA2 region of the hippocampus and its differential contributions to social memory and social aggression. *Cell reports*, 44(5), 115714.

Hadrian K, et al. (2025) Effect of primary copper metabolism disturbance on elemental, protein, and lipid composition of the organs in Jackson toxic milk mouse. *Biometals : an international journal on the role of metal ions in biology, biochemistry, and medicine*, 38(1), 103.

Kazemi MH, et al. (2025) FOXO1 pathway activation by VISTA immune checkpoint restrains pulmonary ILC2 functions. *The Journal of clinical investigation*, 135(4).

Shoman M, et al. (2025) Expanding the CarD interaction network: CrsL is a novel transcription regulator in actinobacteria. *Nucleic acids research*, 53(22).

Panou T, et al. (2025) The Therapeutic Potential of Dipeptidyl Peptidase 4 Inhibitors and Glucagon-Like Peptide-1 Receptor Agonists in Diabetic Peripheral Neuropathy. *Diabetes therapy : research, treatment and education of diabetes and related disorders*, 16(6), 1077.

Yamamura Y, et al. (2025) CXCL12+ fibroblastic reticular cells in lymph nodes facilitate immune tolerance by regulating T cell-mediated alloimmunity. *The Journal of clinical investigation*, 135(9).