

Resource Summary Report

Generated by [NIF](#) on Aug 10, 2026

DBA/1J

RRID:IMSR_JAX:000670

Type: Organism

Proper Citation

RRID:IMSR_JAX:000670

Organism Information

URL: <https://www.jax.org/strain/000670>

Proper Citation: RRID:IMSR_JAX:000670

Description: Mus musculus with name DBA/1J from IMSR.

Species: Mus musculus

Synonyms: DBA1. D1

Notes: gene symbol note: purinergic receptor P2X; ligand-gated ion channel; 7|cadherin related 23 (otocadherin)|G protein-coupled receptor 84|latent transforming growth factor beta binding protein 4|hemoglobin beta chain complex|myosin VA|resistance to MCF virus|tyrosinase-related protein 1|nonagouti|CD5 antigen|beta-2 microglobulin|cytochrome c oxidase subunit 7A2 like; inbred strain:

P2rx7|Cdh23|Gpr84|Ltbp4|Hbb|Myo5a|Rmcf|Tyrrp1|a|Cd5|B2m|Cox7a2l

Affected Gene: purinergic receptor P2X; ligand-gated ion channel; 7|cadherin related 23 (otocadherin)|G protein-coupled receptor 84|latent transforming growth factor beta binding protein 4|hemoglobin beta chain complex|myosin VA|resistance to MCF virus|tyrosinase-related protein 1|nonagouti|CD5 antigen|beta-2 microglobulin|cytochrome c oxidase subunit 7A2 like

Genomic Alteration: rs48804829 SNP allele with the T variant|age related hearing loss 1|deletion|Duchenne modifier 1 susceptible|d|dilute|MCF resistant|brown|nonagouti|a variant|long

Catalog Number: JAX:000670

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: DBA/1J

Record Creation Time: 20250513T053620+0000

Record Last Update: 20260808T050822+0000

Ratings and Alerts

No rating or validation information has been found for DBA/1J.

No alerts have been found for DBA/1J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 501 mentions in open access literature.

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

Kaur J, et al. (2026) T cell proliferative response to a homocitrullinated peptide correlates with joint pathology in collagen induced arthritis. *Journal of translational autoimmunity*, 12, 100345.

Erickson S, et al. (2026) Environmentally driven immune imprinting protects against allergy. *Nature*, 650(8103), 987.

Shixiong W, et al. (2026) MSC-derived microvesicles inhibit the progression of arthritis in a murine model of preclinical rheumatoid arthritis. *Frontiers in immunology*, 17, 1723572.

Zhou L, et al. (2026) Ferroptosis inhibition and mitochondrial rescue: a novel mechanism of emodin in rheumatoid arthritis. *Redox report : communications in free radical research*, 31(1), 2646383.

Wei Z, et al. (2026) High drug-loaded supramolecular microgels enabled by controlled in-droplet self-assembly for adaptive treatment of inflammatory arthritis. *Bioactive materials*, 57, 231.

Inzerillo PC, et al. (2026) Strain-Dependent Protective Innate Immunity Against *Pneumocystis Pneumonia* in Mice. *Journal of fungi (Basel, Switzerland)*, 12(4).

Kaneta H, et al. (2026) Oral ginger-derived extracellular vesicles ameliorate arthritis via anti-inflammatory actions of microRNA-149 and 6-gingerol. *Molecular therapy. Nucleic acids*, 37(1), 102840.

- Jian C, et al. (2026) Multiomics Analyses Reveal an Essential Role of Tryptophan in Treatment of csDMARDs in Rheumatoid Arthritis. *Advanced science* (Weinheim, Baden-Wurttemberg, Germany), 13(9), e13170.
- García-Ocaña M, et al. (2026) Two Highly Specific Mouse Monoclonal Antibodies to the Putative C-Telopeptide of Human Collagen XI α 1, a Cancer Biomarker. *Antibodies* (Basel, Switzerland), 15(2).
- Liu J, et al. (2026) Erythrocyte patch for enhanced B cell depletion therapy. *Science advances*, 12(21), eaed3138.
- Najeeb M, et al. (2026) Bridging the Gaps: Complexities and Challenges in Studying SUDEP Using Animal Models. *Epilepsy currents*, 26(3), 234.
- Wang C, et al. (2026) MSMP promotes an aberrant phenotype of fibroblast-like synoviocytes in rheumatoid arthritis by blocking autophagy via the RUNX1/GPR137B axis. *Arthritis research & therapy*, 28(1).
- Li Y, et al. (2026) The RNA binding protein Arid5a is an activator of TNF signaling in rheumatoid arthritis. *JCI insight*, 11(2).
- Hsu WL, et al. (2026) Immunization with detoxified TNF α elicits neutralizing antibodies and ameliorates inflammatory shock and autoimmune arthritis in mice. *Frontiers in immunology*, 17, 1801223.
- Schmid E, et al. (2026) Microbiota-specific serum IgG links gut and joints through immune-endothelial crosstalk in arthritis. *Frontiers in microbiology*, 17, 1821367.
- Liang S, et al. (2026) T-cell-targeted fusogenic nanovesicles generate CAR-T cells in vivo for rheumatoid arthritis therapy. *Biomarker research*, 14(1), 30.
- Ma R, et al. (2026) Deep Learning-Driven Transmission Electron Microscopy Analysis of Murine Optic Nerve Myelinated Axons. *Ophthalmology science*, 6(5), 101141.
- Xie Q, et al. (2026) Antibody-conjugated mesenchymal stromal cell drug delivery system for the treatment of autoimmune diseases in mice. *Nature communications*, 17(1), 830.
- Hemshekhkar M, et al. (2026) Sex differences in disease severity and immune responses in murine and human inflammatory arthritis. *Biology of sex differences*, 17(1).
- Ren W, et al. (2025) A tandem repeat atlas for the genome of inbred mouse strains: A genetic variation resource. *iScience*, 28(11), 113703.