

Resource Summary Report

Generated by [NIF](#) on Aug 4, 2026

B6.129S2-II6^{tm1Kopf}/J

RRID:IMSR_JAX:002650

Type: Organism

Proper Citation

RRID:IMSR_JAX:002650

Organism Information

URL: <https://www.jax.org/strain/002650>

Proper Citation: RRID:IMSR_JAX:002650

Description: Mus musculus with name B6.129S2-II6^{tm1Kopf}/J from IMSR.

Species: Mus musculus

Synonyms: B6.129S6-II6

Notes: gene symbol note: interleukin 6; mutant strain|congenic strain: II6

Affected Gene: interleukin 6

Genomic Alteration: targeted mutation 1; Manfred Kopf

Catalog Number: JAX:002650

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129S2-II6^{tm1Kopf}/J

Record Creation Time: 20250513T053633+0000

Record Last Update: 20260801T050337+0000

Ratings and Alerts

No rating or validation information has been found for B6.129S2-II6^{tm1Kopf}/J.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human Barrett's esophagus.

Warning: Warning. Researchers have noted that this genotype does not sufficiently model human viral infectious disease.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 74 mentions in open access literature.

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

Stauber T, et al. (2025) Il-6 signaling exacerbates hallmarks of chronic tendon disease by stimulating reparative fibroblasts. *eLife*, 12.

Zhang J, et al. (2025) Bone marrow B lymphopoiesis accelerates early cerebral amyloid pathology. *Signal transduction and targeted therapy*, 10(1), 312.

Bloomer H, et al. (2025) Triple-Negative Breast Cancer Cells Activate Sensory Neurons via TRPV1 to Drive Nerve Outgrowth and Tumor Progression. *bioRxiv : the preprint server for biology*.

Kong W, et al. (2025) Neuroendocrine cells orchestrate regeneration through Desert hedgehog signaling. *Cell*, 188(18), 5020.

Kim K, et al. (2025) Meningeal lymphatics-microglia axis regulates synaptic physiology. *Cell*, 188(10), 2705.

González-Vila A, et al. (2025) IL-6 decodes sex and diet-dependent circadian and metabolic rhythms. *Molecular metabolism*, 97, 102171.

Liu X, et al. (2025) Discovery, delineation, and therapeutic targeting of a hyper-translation pathway driving cytokine release syndrome. *Cell reports. Medicine*, 102531.

Reguera-Gomez M, et al. (2024) IL-6 deficiency accelerates cerebral cryptococcosis and alters glial cell responses. *Journal of neuroinflammation*, 21(1), 242.

Ben-Crentsil NA, et al. (2024) RNA Shielding of p65 Is Required to Potentiate Oncogenic Inflammation in TET2-Mutated Clonal Hematopoiesis. *Cancer discovery*, 14(12), 2509.

Rahal Z, et al. (2024) Inflammation Mediated by Gut Microbiome Alterations Promotes Lung Cancer Development and an Immunosuppressed Tumor Microenvironment. *Cancer immunology research*, 12(12), 1736.

Tsai PJ, et al. (2024) PTEN acts as a crucial inflammatory checkpoint controlling TLR9/IL-6 axis in B cells. *iScience*, 27(7), 110388.

Sakai J, et al. (2023) B cell receptor-induced IL-10 production from neonatal mouse CD19+CD43- cells depends on STAT5-mediated IL-6 secretion. *eLife*, 12.

Obi AT, et al. (2023) Experimental venous thrombus resolution is driven by IL-6 mediated monocyte actions. *Scientific reports*, 13(1), 3253.

Pichler AC, et al. (2023) TCR-independent CD137 (4-1BB) signaling promotes CD8+-exhausted T cell proliferation and terminal differentiation. *Immunity*, 56(7), 1631.

Anstee JE, et al. (2023) LYVE-1+ macrophages form a collaborative CCR5-dependent perivascular niche that influences chemotherapy responses in murine breast cancer. *Developmental cell*, 58(17), 1548.

Gargaro M, et al. (2022) Indoleamine 2,3-dioxygenase 1 activation in mature cDC1 promotes tolerogenic education of inflammatory cDC2 via metabolic communication. *Immunity*, 55(6), 1032.

Crane SD, et al. (2022) Treatment with Fluticasone Propionate Increases Antibiotic Efficacy during Treatment of Late-Stage Primary Pneumonic Plague. *Antimicrobial agents and chemotherapy*, 66(1), e0127521.

Gadomski S, et al. (2022) A cholinergic neuroskeletal interface promotes bone formation during postnatal growth and exercise. *Cell stem cell*, 29(4), 528.

Hayer S, et al. (2022) Analysis of combined deficiency of interleukin-1 and -6 versus single deficiencies in TNF-mediated arthritis and systemic bone loss. *Bone & joint research*, 11(7), 484.

Hirani D, et al. (2022) Macrophage-derived IL-6 trans-signalling as a novel target in the pathogenesis of bronchopulmonary dysplasia. *The European respiratory journal*, 59(2).