

Resource Summary Report

Generated by [kravitz2](#) on Sep 18, 2026

B6;SJL-Il6ra^{tm1.1Drew/J}

RRID:IMSR_JAX:012944

Type: Organism

Proper Citation

RRID:IMSR_JAX:012944

Organism Information

URL: <https://www.jax.org/strain/012944>

Proper Citation: RRID:IMSR_JAX:012944

Description: Mus musculus with name B6;SJL-Il6ra^{tm1.1Drew/J} from IMSR.

Species: Mus musculus

Synonyms: B6(SJL)-Il6ra/J

Notes: gene symbol note: interleukin 6 receptor; alpha; mutant stock: Il6ra

Affected Gene: interleukin 6 receptor; alpha

Genomic Alteration: targeted mutation 1.1; Angela Drew

Catalog Number: JAX:012944

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6;SJL-Il6ra^{tm1.1Drew/J}

Record Creation Time: 20250513T053723+0000

Record Last Update: 20260912T060509+0000

Ratings and Alerts

No rating or validation information has been found for B6;SJL-Il6ra^{tm1.1Drew/J}.

No alerts have been found for B6;SJL-Il6ra^{tm1.1Drew/J}.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Gong F, et al. (2026) Trans-presentation of IL-6R α by macrophages drives colorectal cancer development. Cell reports, 45(7), 117549.

Huseni MA, et al. (2023) CD8 $^{+}$ T cell-intrinsic IL-6 signaling promotes resistance to anti-PD-L1 immunotherapy. Cell reports. Medicine, 4(1), 100878.

Robinson R, et al. (2022) Generation and characterization of a Müller-glial-cell-specific Il6ra knockout mouse to delineate the effects of IL-6 trans-signaling in the retina. Scientific reports, 12(1), 17626.

Merana GR, et al. (2022) Intestinal inflammation alters the antigen-specific immune response to a skin commensal. Cell reports, 39(9), 110891.

Homeier JM, et al. (2021) Selective Inhibition of IL-6 Trans-Signaling Has No Beneficial Effect on the Posttraumatic Cytokine Release after Multiple Trauma in Mice. Life (Basel, Switzerland), 11(11).

Klawonn AM, et al. (2021) Microglial activation elicits a negative affective state through prostaglandin-mediated modulation of striatal neurons. Immunity, 54(2), 225.

Harb H, et al. (2021) Notch4 signaling limits regulatory T-cell-mediated tissue repair and promotes severe lung inflammation in viral infections. Immunity, 54(6), 1186.

Yousif AS, et al. (2021) The persistence of interleukin-6 is regulated by a blood buffer system derived from dendritic cells. Immunity, 54(2), 235.

Higuchi Y, et al. (2020) HTLV-1 induces T cell malignancy and inflammation by viral antisense factor-mediated modulation of the cytokine signaling. Proceedings of the National Academy of Sciences of the United States of America, 117(24), 13740.

He K, et al. (2020) Blimp-1 is essential for allergen-induced asthma and Th2 cell development in the lung. The Journal of experimental medicine, 217(7).

Kerns ML, et al. (2020) Pathogenic and therapeutic role for NRF2 signaling in ultraviolet light-induced skin pigmentation. JCI insight, 5(20).

Qing H, et al. (2020) Origin and Function of Stress-Induced IL-6 in Murine Models. Cell, 182(2), 372.

Hu Z, et al. (2020) CNTF-STAT3-IL-6 Axis Mediates Neuroinflammatory Cascade across Schwann Cell-Neuron-Microglia. *Cell reports*, 31(7), 107657.

Lücke K, et al. (2018) Control of *Listeria monocytogenes* infection requires classical IL-6 signaling in myeloid cells. *PloS one*, 13(8), e0203395.

Storer MA, et al. (2018) Interleukin-6 Regulates Adult Neural Stem Cell Numbers during Normal and Abnormal Post-natal Development. *Stem cell reports*, 10(5), 1464.

Chung L, et al. (2018) *Bacteroides fragilis* Toxin Coordinates a Pro-carcinogenic Inflammatory Cascade via Targeting of Colonic Epithelial Cells. *Cell host & microbe*, 23(2), 203.

Massoud AH, et al. (2016) An asthma-associated IL4R variant exacerbates airway inflammation by promoting conversion of regulatory T cells to TH17-like cells. *Nature medicine*, 22(9), 1013.

Sharma MD, et al. (2015) The PTEN pathway in Tregs is a critical driver of the suppressive tumor microenvironment. *Science advances*, 1(10), e1500845.