

Resource Summary Report

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B6.129P2(Cg)-Cx3cr1^{tm1Litt}/J

RRID:IMSR_JAX:005582

Type: Organism

Proper Citation

RRID:IMSR_JAX:005582

Organism Information

URL: <https://www.jax.org/strain/005582>

Proper Citation: RRID:IMSR_JAX:005582

Description: Mus musculus with name B6.129P2(Cg)-Cx3cr1^{tm1Litt}/J from IMSR.

Species: Mus musculus

Synonyms: B6.129P-Cx3cr1/J. B6.129P2-Cx3cr1/J

Notes: gene symbol note: C-X3-C motif chemokine receptor 1|; mutant strain|congenic strain: Cx3cr1|

Affected Gene: C-X3-C motif chemokine receptor 1|

Genomic Alteration: targeted mutation 1; Dan R Littman

Catalog Number: JAX:005582

Database: JAX Mice and Services

Database Abbreviation: JAX

Availability: live

Organism Name: B6.129P2(Cg)-Cx3cr1^{tm1Litt}/J

Record Creation Time: 20250513T053650+0000

Record Last Update: 20260801T050353+0000

Ratings and Alerts

No rating or validation information has been found for B6.129P2(Cg)-Cx3cr1^{tm1Litt}/J.

No alerts have been found for B6.129P2(Cg)-Cx3cr1^{tm1Litt}/J.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: JAX Mice and Services

Usage and Citation Metrics

We found 278 mentions in open access literature.

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

Muppirala AN, et al. (2026) Tachykinin signaling defines distinct populations of glia in the enteric nervous system. *Neuron*.

Eme-Scolan E, et al. (2026) Remodeling of skull bone channels regulates immune infiltration into the meninges during neuroinflammation. *Immunity*, 59(1), 116.

Hamagami N, et al. (2026) State-specific enhancer landscapes govern microglial plasticity. *Immunity*.

Wang Y, et al. (2025) CXCL10^{high}TNF^{high}Ki67⁺ Microglia Recruit and Activate CD8⁺ T Cells in the Brainstem During Experimental Cerebral Malaria. *CNS neuroscience & therapeutics*, 31(6), e70425.

Sotani N, et al. (2025) Transpupillary in vivo two-photon imaging reveals enhanced surveillance of retinal microglia in diabetic mice. *Proceedings of the National Academy of Sciences of the United States of America*, 122(41), e2426241122.

Li L, et al. (2025) A bladder-blood immune barrier constituted by suburothelial perivascular macrophages restrains uropathogen dissemination. *Immunity*, 58(3), 568.

Zawadzki ME, et al. (2025) Fluid-Niche and Microglial Signatures Prime Robust Intraventricular Macrophage Response to Blood During Brain Development. *bioRxiv : the preprint server for biology*.

Noel RL, et al. (2025) Focused ultrasound-induced blood-brain barrier opening promotes glioprotective phenotypes in ACSA-II⁺ murine astrocytes. *iScience*, 28(8), 113173.

Hamagami N, et al. (2025) Microglial plasticity governed by state-specific enhancer landscapes. *bioRxiv : the preprint server for biology*.

Moran ER, et al. (2025) Microglial Engulfment of Multisensory Terminals in the Midbrain Inferior Colliculus During an Early Critical Period. *The Journal of comparative neurology*, 533(3), e70033.

Power D, et al. (2025) Photoreceptor loss does not recruit neutrophils despite strong microglial activation. *eLife*, 13.

Gazard CM, et al. (2025) Behavioral Settings are Crucial for Assessing Sensorimotor, Anxiety, and Social Changes in Aging and Spinal Cord Injury. *Brain and behavior*, 15(7), e70686.

Stephenson RA, et al. (2025) Triglyceride metabolism controls inflammation and microglial phenotypes associated with APOE4. *Cell reports*, 44(7), 115961.

Kim SH, et al. (2025) IL-10 sensing by lung interstitial macrophages prevents bacterial dysbiosis-driven pulmonary inflammation and maintains immune homeostasis. *Immunity*, 58(5), 1306.

Martín-Ávila A, et al. (2025) Clearing truncated tau protein restores neuronal function and prevents microglia activation in tauopathy mice. *Cell reports*, 44(10), 116291.

Xie M, et al. (2025) Rod-shaped microglia interact with neuronal dendrites to attenuate cortical excitability during TDP-43-related neurodegeneration. *Immunity*.

Faust TE, et al. (2025) Microglia-astrocyte crosstalk regulates synapse remodeling via Wnt signaling. *Cell*.

Fremuth LE, et al. (2025) Neuraminidase 1 regulates neuropathogenesis by governing the cellular state of microglia via modulation of Trem2 sialylation. *Cell reports*, 44(1), 115204.

Campagno KE, et al. (2025) Priming and release of cytokine IL-1 β in microglial cells from the retina. *Experimental eye research*, 252, 110246.

Lu Q, et al. (2025) Microglial clock dysfunction during neuroinflammation impairs oligodendrocyte progenitor cell recruitment and disrupts neuroimmune homeostasis. *Frontiers in immunology*, 16, 1620343.