

Resource Summary Report

Generated by [kravitz2](#) on Sep 19, 2026

B6.129(C)-Cx3cr1^{tm2.1}(cre/ERT2)Jung/Orl

RRID:IMSR_EM:06350

Type: Organism

Proper Citation

RRID:IMSR_EM:06350

Organism Information

URL: <https://www.infrafrontier.eu/emma/strain-details/?q=6350>

Proper Citation: RRID:IMSR_EM:06350

Description: Mus musculus with name B6.129(C)-Cx3cr1^{tm2.1}(cre/ERT2)Jung/Orl from IMSR.

Species: Mus musculus

Synonyms: B6.129(C)-Cx3cr1/Orl. CX3CR1-CreER. B6.129-Cx3cr1/Orl

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

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

Genomic Alteration: targeted mutation 2.1; Steffen Jung

Catalog Number: EM:06350

Database: European Mouse Mutant Archive

Database Abbreviation: EMMA

Availability: sperm

Organism Name: B6.129(C)-Cx3cr1^{tm2.1}(cre/ERT2)Jung/Orl

Record Creation Time: 20250513T062233+0000

Record Last Update: 20260919T064151+0000

Ratings and Alerts

No rating or validation information has been found for B6.129(C)-Cx3cr1^{tm2.1(cre/ERT2)}Jung/Orl.

No alerts have been found for B6.129(C)-Cx3cr1^{tm2.1(cre/ERT2)}Jung/Orl.

Data and Source Information

Source: [Integrated Animals](#)

Source Database: European Mouse Mutant Archive

Usage and Citation Metrics

We found 18 mentions in open access literature.

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

Sato T, et al. (2026) Scg2 drives corticospinal circuit reorganization with spinal premotor interneurons and astrocytes for motor recovery after stroke in mice. Nature communications, 17(1).

Zeng F, et al. (2026) Microglia overexpressing brain-derived neurotrophic factor promote vascular repair and functional recovery in mice after spinal cord injury. Neural regeneration research, 21(1), 365.

Yu J, et al. (2026) Characterizing the metabolomes of microglia, astrocytes and neurons in ageing and Alzheimer's brains. Nature cell biology, 28(5), 1031.

Barasa MN, et al. (2026) Microglia detection and phagocytosis of dying neurons is regulated by CX3CR1. bioRxiv : the preprint server for biology.

Fuhrmann F, et al. (2025) Three-photon in vivo imaging of neurons and glia in the medial prefrontal cortex with sub-cellular resolution. Communications biology, 8(1), 795.

Wang X, et al. (2025) MK5 Regulates Microglial Activation and Neuroinflammation in Experimental Stroke Models. CNS neuroscience & therapeutics, 31(4), e70395.

O'Brien CA, et al. (2025) Neonatal microglia replacement in mice modulates seizure severity in adulthood. Molecular therapy : the journal of the American Society of Gene Therapy, 33(12), 6248.

Li R, et al. (2025) Macrophage ITGAV is dispensable for post-infarction remodeling in mice and does not mediate fibronectin responses. Communications biology, 9(1), 29.

Theis T, et al. (2025) Depletion of Cell Adhesion Molecule L1 from Microglia and Macrophages Reduces Recovery After Spinal Cord Injury. International journal of molecular sciences, 26(7).

Cros A, et al. (2025) Aryl hydrocarbon receptor restrains tonic cytokine responses by inhibiting microbiota sensing in monocytes. The Journal of clinical investigation, 135(23).

Kooistra T, et al. (2025) Airway basal stem cells are necessary for the maintenance of functional intraepithelial airway macrophages. *Cell reports*, 44(6), 115860.

Mi X, et al. (2025) Fast, accurate, and versatile data analysis platform for the quantification of molecular spatiotemporal signals. *Cell*, 188(10), 2794.

Bielanin JP, et al. (2024) NHE1 Protein in Repetitive Mild TBI-Mediated Neuroinflammation and Neurological Function Impairment. *Antioxidants (Basel, Switzerland)*, 13(7).

Wang L, et al. (2024) CCR2⁺ monocytes replenish border-associated macrophages in the diseased mouse brain. *Cell reports*, 43(4), 114120.

Mi X, et al. (2024) Fast, Accurate, and Versatile Data Analysis Platform for the Quantification of Molecular Spatiotemporal Signals. *bioRxiv : the preprint server for biology*.

Li R, et al. (2023) Protective effects of macrophage-specific integrin $\alpha 5$ in myocardial infarction are associated with accentuated angiogenesis. *Nature communications*, 14(1), 7555.

He Y, et al. (2023) Microglia facilitate and stabilize the response to general anesthesia via modulating the neuronal network in a brain region-specific manner. *eLife*, 12.

Mohamed SH, et al. (2023) Microglia are not protective against cryptococcal meningitis. *Nature communications*, 14(1), 7202.