Resource Summary Report

Generated by SPARC SAWG on Sep 12, 2026

Gene Expression Nervous System Atlas

RRID:SCR_002721
Type: Tool

Proper Citation

Gene Expression Nervous System Atlas (RRID:SCR_002721)

Resource Information

URL: http://www.gensat.org/

Proper Citation: Gene Expression Nervous System Atlas (RRID:SCR_002721)

Description: Gene expression data and maps of mouse central nervous system. Gene expression atlas of developing adult central nervous system in mouse, using in situ hybridization and transgenic mouse techniques. Collection of pictorial gene expression maps of brain and spinal cord of mouse. Provides tools to catalog, map, and electrophysiologically record individual cells. Application of Cre recombinase technologies allows for cell-specific gene manipulation. Transgenic mice created by this project are available to scientific community.

Abbreviations: GENSAT

Synonyms: Gene Expression Nervous System Atlas, GENSAT

Resource Type: biomaterial supply resource, material resource, organism supplier

Keywords: molecular neuroanatomy resource, gene expression, cre mice, rodent, adult mouse, development, developing mouse, histology, annotation, central nervous system, in situ hybridization, mutant mouse strain, brain, spinal cord, transgenic bac-egfp reporter, bac-cre recombinase driver mouse line, transgenic mouse, young mouse, genetics, neurology, bac, transgenic, histology, annotation, bioinformatics, FASEB list

Funding: NIH Blueprint for Neuroscience Research ;
NIH ;
NINDS N01 NS02331

Availability: Free, Freely available

Resource Name: Gene Expression Nervous System Atlas

Resource ID: SCR_002721

Alternate IDs: nif-0000-00130

Alternate URLs: http://www.gensat.org/index.html

Record Creation Time: 20220129T080215+0000

Record Last Update: 20260912T195545+0000

Ratings and Alerts

No rating or validation information has been found for Gene Expression Nervous System Atlas.

No alerts have been found for Gene Expression Nervous System Atlas.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 396 mentions in open access literature.

Listed below are recent publications. The full list is available at SPARC SAWG .

Krueger MR, et al. (2026) Roles of sonic hedgehog signaling in retinal patterning and neurogenesis during mammalian eye development. Development (Cambridge, England), 153(9).

Murray EM, et al. (2026) D2 autoreceptors gate vulnerability to cocaine use disorder. bioRxiv : the preprint server for biology.

Santamaría-Muñoz D, et al. (2026) Cell-intrinsic vulnerability and immune activation cooperate to drive degeneration in a mitochondrial complex I deficiency model of optic neuropathy. Journal of neuroinflammation, 23(1).

Moura-Assis A, et al. (2026) Identification of a thermogenic target in the dorsal raphe nucleus for weight management in mice. Nature communications, 17(1), 1295.

de Las Casas M, et al. (2026) Validation of TRPA1 and TRPV1 Antibodies for Expression Detection in Mammalian Cells and Tissues. Journal of neurochemistry, 170(4), e70444.

Khalaily L, et al. (2026) Live imaging and multimodal profiling reveal transdifferentiation of a cochlear supporting cell subpopulation upon Notch inhibition. Science advances, 12(25), eaed3887.

Kim J, et al. (2026) A chromosome region linked to neurodevelopmental disorders influences locomotor behavior through sex-specific neural circuits. Nature communications, 17(1), 107.

Safaiyan S, et al. (2026) The Arp2/3 complex controls the development of homeostatic microglia. EMBO reports, 27(7), 1696.

Li W, et al. (2026) Endothelial von Hippel-Lindau gene deletion causes abnormal blood and lymphatic vasculature through ectopic activation of the HIF-CXCR4 axis. Development (Cambridge, England), 153(10).

Garderes PM, et al. (2026) Distinct laminar origins of sensory-evoked high-gamma and low-frequency ECoG signals revealed by optogenetics. Proceedings of the National Academy of Sciences of the United States of America, 123(14), e2516293123.

Han Y, et al. (2026) Loss of function of Noggin inhibits glial scar formation and motor function recovery after spinal cord injury. Frontiers in neural circuits, 20, 1821905.

Hunker AC, et al. (2025) Enhancer AAV toolbox for accessing and perturbing striatal cell types and circuits. Neuron, 113(10), 1507.

Li H, et al. (2025) SPP1 is required for maintaining mesenchymal cell fate in pancreatic cancer. Nature, 648(8092), 203.

Schmors L, et al. (2025) Effects of corticothalamic feedback depend on visual responsiveness and stimulus type. iScience, 28(6), 112481.

Chung WC, et al. (2025) Lfng-expressing centroacinar cell is a unique cell-of-origin for p53 deficient pancreatic cancer. Oncogene, 44(6), 348.

Buron J, et al. (2025) Oxytocin modulates respiratory heart rate variability through a hypothalamus-brainstem-heart neuronal pathway. Nature neuroscience, 28(11), 2247.

Kizhatil K, et al. (2025) FYN regulates aqueous humor outflow and IOP through the phosphorylation of VE-CADHERIN. Nature communications, 16(1), 51.

Mills WA, et al. (2025) Microglial cyclooxygenase-1 modulates cerebral capillary basal tone in vivo in mice. Nature communications, 16(1), 5704.

Saha S, et al. (2025) Acute dietary methionine restriction triggers cell cycle arrest and reversible growth defects in the neocortex. iScience, 28(6), 112705.

Singh A, et al. (2025) Syngap+/- CA1 Pyramidal Neurons Exhibit Upregulated Translation of Long MRNAs Associated with LTP. eNeuro, 12(5).