Resource Summary Report

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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, organism supplier, material resource

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 ;
NIH Blueprint for Neuroscience Research ;
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: 20260801T190212+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 380 mentions in open access literature.

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

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.

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

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

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

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

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

Franck MCM, et al. (2025) Spinal lumbar Urocortin 3-expressing neurons are associated with both scratching and Compound 48/80-induced sensations. Pain, 166(5), 1070.

Chen C, et al. (2025) LRRK2 mediates haloperidol-induced changes in indirect pathway striatal projection neurons. Molecular psychiatry, 30(10), 4473.

Bovay E, et al. (2025) Artery formation in the intestinal wall and mesentery by intestine-derived Esm1+ endothelial cells. Nature communications, 16(1), 8423.

Matosevich N, et al. (2025) An early surge of norepinephrine along brainstem pathways drives sensory-evoked awakening. Science advances, 11(37), eadw6375.

Araujo EV, et al. (2025) Oxytocinergic signalling in the respiratory parafacial region increases the activity of chemosensitive neurons and respiratory output. The Journal of physiology.

Tabaka O, et al. (2025) Prefrontal oxytocin receptor positive cells mediate stress-induced anxiety in tuberous sclerosis complex. Communications biology, 8(1), 1789.

Cooke P, et al. (2025) Functional Regrowth of Norepinephrine Axons in the Adult Mouse Brain Following Injury. eNeuro, 12(1).

Condrau J, et al. (2025) ECgo: All-Optical Induction of Single Endothelial Cell Injury and Capillary Occlusion in the Brain. bioRxiv : the preprint server for biology.

Song Y, et al. (2025) Stratification of enterochromaffin cells by single-cell expression analysis. eLife, 12.

Park S, et al. (2025) NR3C1-mediated epigenetic regulation suppresses astrocytic immune responses in mice. Nature communications, 16(1), 8330.

Plewnia C, et al. (2025) Rewarding properties of L-Dopa in experimental parkinsonism are mediated by sensitized dopamine D1 receptors in the dorsal striatum. Molecular psychiatry, 30(3), 976.