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: material resource, biomaterial supply 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 ;
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: 20250519T203217+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 358 mentions in open access literature.

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

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

Zeidler Z, et al. (2025) Prefrontal dopamine activity is critical for rapid threat avoidance learning. bioRxiv : the preprint server for biology.

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

Torres-Rodriguez JM, et al. (2024) The parabrachial to central amygdala pathway is critical to injury-induced pain sensitization in mice. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 49(3), 508.

Guo X, et al. (2024) Kdm4a is an activity downregulated barrier to generate engrams for memory separation. Nature communications, 15(1), 5887.

Del Agua Villa C, et al. (2024) Pharmacological targeting of dopamine D1 or D2 receptors

evokes a rapid-onset parkinsonian motor phenotype in mice. The European journal of neuroscience, 60(12), 7006.

Campbell PW, et al. (2024) Development of reciprocal connections between the dorsal lateral geniculate nucleus and the thalamic reticular nucleus. Neural development, 19(1), 6.

Mantas I, et al. (2024) Claustrum and dorsal endopiriform cortex complex cell-identity is determined by Nurr1 and regulates hallucinogenic-like states in mice. Nature communications, 15(1), 8176.

Sommer G, et al. (2024) Estrogen Receptor Beta Agonist Influences Presynaptic NMDA Receptor Distribution in the Paraventricular Hypothalamic Nucleus Following Hypertension in a Mouse Model of Perimenopause. Biology, 13(10).

Berezovskaia A, et al. (2024) A sex-specific effect of M4 muscarinic cholinergic autoreceptor deletion on locomotor stimulation by cocaine and scopolamine. Frontiers in molecular neuroscience, 17, 1451010.

Hunker AC, et al. (2024) Enhancer AAV toolbox for accessing and perturbing striatal cell types and circuits. bioRxiv : the preprint server for biology.

Beas S, et al. (2024) Dissociable encoding of motivated behavior by parallel thalamo-striatal projections. bioRxiv : the preprint server for biology.

Tewari BP, et al. (2024) Astrocytes require perineuronal nets to maintain synaptic homeostasis in mice. Nature neuroscience, 27(8), 1475.

Morral C, et al. (2024) p53 promotes revival stem cells in the regenerating intestine after severe radiation injury. Nature communications, 15(1), 3018.

Wood DJ, et al. (2024) The activity-regulated cytoskeleton-associated protein (Arc) functions in a cell type- and sex-specific manner in the adult nucleus accumbens to regulate non-contingent cocaine behaviors. Genes, brain, and behavior, 23(4), e12910.

Hughes BW, et al. (2024) NPAS4 supports cocaine-conditioned cues in rodents by controlling the cell type-specific activation balance in the nucleus accumbens. Nature communications, 15(1), 5971.

Iannone AF, et al. (2024) The chemokine Cxcl14 regulates interneuron differentiation in layer I of the somatosensory cortex. Cell reports, 43(8), 114531.

Costa A, et al. (2024) Chemogenetic activation or inhibition of histaminergic neurons bidirectionally modulates recognition memory formation and retrieval in male and female mice. Scientific reports, 14(1), 11283.

Schappe MS, et al. (2024) A vagal reflex evoked by airway closure. Nature, 627(8005), 830.

McHugh SB, et al. (2024) Offline hippocampal reactivation during dentate spikes supports flexible memory. Neuron, 112(22), 3768.