

Resource Summary Report

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NeuroExpresso

RRID:SCR_015724

Type: Tool

Proper Citation

NeuroExpresso (RRID:SCR_015724)

Resource Information

URL: <http://neuroexpresso.org/>

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Description: Database of mouse brain cell type-specific gene expression datasets. NeuroExpresso is able to demonstrate the use of marker genes for acquiring cell type specific information from whole tissue expression.

Resource Type: web application, database, data or information resource, software resource

Keywords: mouse brain, marker gene, tissue expression, microarray, gene expression, rna sequencing

Funding: NeuroDevNet ;
CAMH ;
NIMH MH077159;
NIMH MH111099;
NIGMS 719GM076990;
NSERC Discovery Grant

Availability: Freely available

Resource Name: NeuroExpresso

Resource ID: SCR_015724

Alternate URLs: <https://github.com/oganm/neuroexpresso>

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260808T190040+0000

Ratings and Alerts

No rating or validation information has been found for NeuroExpresso.

No alerts have been found for NeuroExpresso.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

Yang Y, et al. (2025) Nkapl deletion drives cognitive deficits through mPFC interneuron dysfunction in a mouse model of schizophrenia. *Science advances*, 11(40), eadv4779.

Becker LJ, et al. (2025) Neuropeptides as transmitters and regulators of the locus coeruleus noradrenergic system. *Pharmacological reviews*, 77(5), 100081.

Tarhini S, et al. (2024) Cytomegalovirus infection of the fetal brain: intake of aspirin during pregnancy blunts neurodevelopmental pathogenesis in the offspring. *Journal of neuroinflammation*, 21(1), 298.

Singh R, et al. (2023) RETROFIT: Reference-free deconvolution of cell-type mixtures in spatial transcriptomics. *bioRxiv : the preprint server for biology*.

Palese F, et al. (2022) Targeting NAAA counters dopamine neuron loss and symptom progression in mouse models of parkinsonism. *Pharmacological research*, 182, 106338.

Moon AL, et al. (2022) Social interaction following prepubertal stress alters prefrontal gene expression associated with cell signalling and oligodendrocytes. *Translational psychiatry*, 12(1), 516.

Keo A, et al. (2021) Cingulate networks associated with gray matter loss in Parkinson's disease show high expression of cholinergic genes in the healthy brain. *The European journal of neuroscience*, 53(11), 3727.

Toker L, et al. (2021) Genome-wide histone acetylation analysis reveals altered transcriptional regulation in the Parkinson's disease brain. *Molecular neurodegeneration*, 16(1), 31.

Bauduin SEEC, et al. (2021) Potential associations between immune signaling genes, deactivated microglia, and oligodendrocytes and cortical gray matter loss in patients with long-term remitted Cushing's disease. *Psychoneuroendocrinology*, 132, 105334.

Fotio Y, et al. (2021) NAAA-regulated lipid signaling governs the transition from acute to chronic pain. *Science advances*, 7(43), eabi8834.

- Howard D, et al. (2020) Molecular neuroanatomy of anorexia nervosa. *Scientific reports*, 10(1), 11411.
- Pontis S, et al. (2020) N-Acylethanolamine Acid Amidase contributes to disease progression in a mouse model of multiple sclerosis. *Pharmacological research*, 160, 105064.
- Espeso-Gil S, et al. (2020) A chromosomal connectome for psychiatric and metabolic risk variants in adult dopaminergic neurons. *Genome medicine*, 12(1), 19.
- Dick F, et al. (2020) Differential transcript usage in the Parkinson's disease brain. *PLoS genetics*, 16(11), e1009182.
- Nido GS, et al. (2020) Common gene expression signatures in Parkinson's disease are driven by changes in cell composition. *Acta neuropathologica communications*, 8(1), 55.
- Wang J, et al. (2020) Using multiple measurements of tissue to estimate subject- and cell-type-specific gene expression. *Bioinformatics (Oxford, England)*, 36(3), 782.
- Gerrits E, et al. (2020) Transcriptional profiling of microglia; current state of the art and future perspectives. *Glia*, 68(4), 740.
- Mancuso R, et al. (2019) CSF1R inhibitor JNJ-40346527 attenuates microglial proliferation and neurodegeneration in P301S mice. *Brain : a journal of neurology*, 142(10), 3243.
- Bomkamp C, et al. (2019) Transcriptomic correlates of electrophysiological and morphological diversity within and across excitatory and inhibitory neuron classes. *PLoS computational biology*, 15(6), e1007113.
- Kaneshwaran K, et al. (2019) Sleep fragmentation, microglial aging, and cognitive impairment in adults with and without Alzheimer's dementia. *Science advances*, 5(12), eaax7331.