

Resource Summary Report

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MapMyCells

RRID:SCR_024672

Type: Tool

Proper Citation

MapMyCells (RRID:SCR_024672)

Resource Information

URL: <https://portal.brain-map.org/atlas-and-data/bkp/mapmycells>

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Description: MapMyCells maps single cell and spatial transcriptomics data sets to massive, high-quality, and high-resolution cell type taxonomies. It enables speeding up the creation of brain reference atlases by facilitating the integration of datasets from the scientific community with a shared reference. MapMyCells is part of the growing Brain Knowledge Platform. Its key advantage is scale: researchers can provide up to 327 million cell-gene pairs from their own data, a huge leap forward for working with whole-brain datasets. Allen Institute and its collaborators continue to add new reference taxonomies and algorithms to MapMyCells.

Synonyms: Map My Cells, Allen MapMyCells

Resource Type: software application, web application, algorithm resource, software resource

Keywords: mapping of single cell and spatial transcriptomics data, mapping to whole mouse brain taxonomy, mapping to human brain taxonomy, correlation mapping, hierarchical mapping, label transfer

Funding: NIMH U24MH130918;
Paul G. Allen Foundation

Availability: Free, Freely available

Resource Name: MapMyCells

Resource ID: SCR_024672

Alternate URLs: <https://knowledge.brain-map.org/mapmycells/process/>,
<https://portal.brain-map.org/atlas-and-data/bkp/mapmycells/mapmycells-use-case->

single-cell-genomics

Record Creation Time: 20231103T050226+0000

Record Last Update: 20260729T044608+0000

Ratings and Alerts

No rating or validation information has been found for MapMyCells.

No alerts have been found for MapMyCells.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 34 mentions in open access literature.

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

Demarchi L, et al. (2026) Single-cell map of the female brain across reproductive transitions. bioRxiv : the preprint server for biology.

Wasilczuk AZ, et al. (2025) Convergent Control of NREM Sleep and Anesthesia by Prefrontal Layer 5 Extratelencephalic Neurons. Research square.

Grandke F, et al. (2025) A single-cell atlas to map sex-specific gene-expression changes in blood upon neurodegeneration. Nature communications, 16(1), 1965.

Furdan S, et al. (2025) Regulation of input excitability in human and mouse parvalbumin interneurons by Kir potassium channels. bioRxiv : the preprint server for biology.

Bazan HA, et al. (2025) A non-toxic analgesic elicits cell-specific genomic and epigenomic modulation by targeting the PAG brain region. Neurobiology of pain (Cambridge, Mass.), 18, 100192.

Tung TH, et al. (2025) Fus depleted oligodendrocytes reduce neuronal damage and attenuate AD progression in the AppNL-G-F mouse. bioRxiv : the preprint server for biology.

Sarafinovska S, et al. (2025) Single-Cell Resolution of Individual Variation in Hypothalamic Neurons Allows Targeted Manipulation Affecting Social Motivation. bioRxiv : the preprint server for biology.

Ottenheimer DJ, et al. (2025) Single-cell sequencing of rodent ventral pallidum reveals diverse neuronal subtypes with noncanonical interregional continuity. Science advances, 11(49), eadp3059.

Johansen NJ, et al. (2025) Cross-species consensus atlas of the primate basal ganglia. bioRxiv : the preprint server for biology.

Micoli E, et al. (2025) A single-cell transcriptomic atlas of developing inhibitory neurons reveals expanding and contracting modes of diversification. bioRxiv : the preprint server for biology.

Morimoto K, et al. (2025) Comprehensive analysis of immunoglobulin expression in the mouse brain from embryonic to adult stages. Journal of neuroinflammation, 22(1), 153.

Sibih YE, et al. (2025) Aperiodic neural dynamics define a novel signature of glioma-induced excitation-inhibition dysregulation. bioRxiv : the preprint server for biology.

Nicholson L, et al. (2025) Insulin resistance alters cortical inhibitory neurons and microglia to exacerbate Alzheimer's knock-in mouse phenotypes. bioRxiv : the preprint server for biology.

Minerva AR, et al. (2025) A practical guide to sequencing in neuropsychiatric research. NPP - digital psychiatry and neuroscience, 3(1), 21.

Miller JA, et al. (2025) Annotation Comparison Explorer (ACE): connecting brain cell types across studies of health and Alzheimer's Disease. bioRxiv : the preprint server for biology.

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

Tuscher JJ, et al. (2025) Morphine regulates astrocyte transcriptional dynamics in the ventral tegmental area by stimulation of glucocorticoid signaling. bioRxiv : the preprint server for biology.

Reshef Y, et al. (2025) Powerful and accurate case-control analysis of spatial molecular data with deep learning-defined tissue microniches. bioRxiv : the preprint server for biology.

Yuan G, et al. (2025) Disruption of Cell-Type-Specific Molecular Programs of Medium Spiny Neurons in Autism. bioRxiv : the preprint server for biology.

Ben-Simon Y, et al. (2025) A suite of enhancer AAVs and transgenic mouse lines for genetic access to cortical cell types. Cell, 188(11), 3045.