

Resource Summary Report

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Allen Brain Cell Atlas

RRID:SCR_024440

Type: Tool

Proper Citation

Allen Brain Cell Atlas (RRID:SCR_024440)

Resource Information

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

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Description: Provides platform for visualizing multimodal single cell data across mammalian brain and aims to empower researchers to explore and analyze multiple whole brain datasets simultaneously. Allen Institute and its collaborators continue to add new modalities, species, and insights to the ABC Atlas. Atlas as part of Brain Knowledge Platform will enable neuroscience community to identify more cell types in brain; Investigate spatial location of cell types; Investigate gene expression and co-expression patterns in cell types; Refine boundaries and knowledge of brain regions defined by gene expression.

Synonyms: Allen Brain Cell (ABC) Atlas, The Allen Brain Cell Atlas, ABC Atlas

Resource Type: expression atlas, atlas, data or information resource

Keywords: visualizing multimodal single cell data across mammalian brain, explore and analyze multiple whole brain datasets, identify cell types in brain, brain regions defined by gene expression,

Funding: NIMH MH130919

Availability: Free, Freely available

Resource Name: Allen Brain Cell Atlas

Resource ID: SCR_024440

Record Creation Time: 20230916T050219+0000

Record Last Update: 20260728T043708+0000

Ratings and Alerts

No rating or validation information has been found for Allen Brain Cell Atlas.

No alerts have been found for Allen Brain Cell Atlas.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 42 mentions in open access literature.

Listed below are recent publications. The full list is available at [nidm-terms](#) .

Li Guan YH, et al. (2026) GPR88 localization to primary cilia in neurons is cell-type specific. Life science alliance, 9(2).

Perez GA, et al. (2026) Neuronal subtype governs amyloid structure, cellular response, and cognitive outcome in genetically targeted APP mouse models. Molecular neurodegeneration, 21(1), 2.

Lee AJ, et al. (2025) Data-driven fine-grained region discovery in the mouse brain with transformers. Nature communications, 16(1), 8536.

Takahashi M, et al. (2025) The SNARE protein Ykt6 drives insertion of the GluA1 and GluA2 glutamate receptors at synaptic spines during long-term potentiation. The Journal of biological chemistry, 301(10), 110613.

Denholtz LE, et al. (2025) PV - Oligodendrocyte Interactions in the Infralimbic Cortex Promote Extracellular Plasticity after Safety Learning. bioRxiv : the preprint server for biology.

Corrigan EK, et al. (2025) Conservation and alteration of mammalian striatal interneurons. Nature, 647(8088), 187.

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.

Tan SZK, et al. (2025) The Cell Ontology in the age of single-cell omics. ArXiv.

Arya A, et al. (2025) Navigating single-cell RNA-sequencing: protocols, tools, databases, and applications. Genomics & informatics, 23(1), 13.

Kimmey BA, et al. (2025) Convergent state-control of endogenous opioid analgesia. bioRxiv : the preprint server for biology.

Liu WW, et al. (2025) A gut sense for a microbial pattern regulates feeding. Nature, 645(8081), 729.

Xiong F, et al. (2025) Reconstruction of a connectome of single neurons in mouse brains by cross-validating multi-scale multi-modality data. *Nature methods*, 22(12), 2670.

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.

Merello Oyarzún G, et al. (2025) Evolutionary and Functional Analysis of Monoamine Oxidase F: A Novel Member of the Monoamine Oxidase Gene Family. *Genome biology and evolution*, 17(2).

Chen H, et al. (2025) A unified analysis of atlas single-cell data. *Genome research*, 35(5), 1219.

Wu Y, et al. (2025) Single-cell landscape of sex-specific drivers of Alzheimer's disease. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(12), e71041.

Müller-Böttcher N, et al. (2025) Sainsc: A Computational Tool for Segmentation-Free Analysis of In Situ Capture Data. *Small methods*, 9(5), e2401123.

Sun J, et al. (2025) Beyond benchmarking: an expert-guided consensus approach to spatially aware clustering. *bioRxiv : the preprint server for biology*.

Reeves JM, et al. (2025) Excitatory Synaptic Transmission Is Differentially Modulated by Opioid Receptors along the Claustrorostromal Pathway. *eNeuro*, 12(8).

Tan Y, et al. (2025) Transfer learning of multicellular organization via single-cell and spatial transcriptomics. *PLoS computational biology*, 21(4), e1012991.