Resource Summary Report

Generated by NIF on Apr 19, 2025

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/atlases-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: data or information resource, expression atlas, atlas

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: 20250420T015306+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 16 mentions in open access literature.

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

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

Lee AJ, et al. (2024) Data-driven fine-grained region discovery in the mouse brain with transformers. bioRxiv : the preprint server for biology.

van Velthoven CTJ, et al. (2024) The transcriptomic and spatial organization of telencephalic GABAergic neuronal types. bioRxiv : the preprint server for biology.

Corrigan EK, et al. (2024) Conservation, alteration, and redistribution of mammalian striatal interneurons. bioRxiv : the preprint server for biology.

Hu H, et al. (2024) scPair: Boosting single cell multimodal analysis by leveraging implicit feature selection and single cell atlases. Nature communications, 15(1), 9932.

Ke J, et al. (2024) Functional dissection of parabrachial substrates in processing nociceptive information. Zoological research, 45(3), 633.

Gabitto MI, et al. (2024) Integrated multimodal cell atlas of Alzheimer's disease. Nature neuroscience, 27(12), 2366.

Hölter SM, et al. (2024) Digital tools of analysis and data integration facilitate synergy between mouse and human brain research and enable translation. Mammalian genome : official journal of the International Mammalian Genome Society, 35(4), 544.

Martin N, et al. (2024) MerQuaCo: a computational tool for quality control in image-based spatial transcriptomics. bioRxiv : the preprint server for biology.

Brunner M, et al. (2024) Fasting induces metabolic switches and spatial redistributions of lipid processing and neuronal interactions in tanycytes. Nature communications, 15(1), 6604.

Fairley LH, et al. (2024) The mitochondrial translocator protein (TSPO) in Alzheimer's disease: Therapeutic and immunomodulatory functions. Biochimie, 224, 120.

Zito A, et al. (2024) Variable expression of MECP2, CDKL5, and FMR1 in the human brain: Implications for gene restorative therapies. Proceedings of the National Academy of Sciences of the United States of America, 121(9), e2312757121.

Mendelsohn AI, et al. (2024) Segregated basal ganglia output pathways correspond to genetically divergent neuronal subclasses. bioRxiv : the preprint server for biology.

Zhou J, et al. (2023) Brain-wide correspondence of neuronal epigenomics and distant projections. Nature, 624(7991), 355.

Zhang M, et al. (2023) Molecularly defined and spatially resolved cell atlas of the whole mouse brain. Nature, 624(7991), 343.

Yao Z, et al. (2023) A high-resolution transcriptomic and spatial atlas of cell types in the whole mouse brain. Nature, 624(7991), 317.