

Resource Summary Report

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BRAIN Initiative Cell Atlas Network

RRID:SCR_022794

Type: Tool

Proper Citation

BRAIN Initiative Cell Atlas Network (RRID:SCR_022794)

Resource Information

URL: <https://www.portal.brain-bican.org/>

Proper Citation: BRAIN Initiative Cell Atlas Network (RRID:SCR_022794)

Description: Provides molecular and anatomical foundational framework for study of brain function and disorders. Comprehensive Center on Human and Non-Human Primate Brain Cell Atlases with goal to build reference brain cell atlases that will be used throughout research community.

Abbreviations: BICAN

Resource Type: data or information resource, portal

Keywords: Cell Atlas Network, study of brain function and disorders, build reference brain cell atlases

Funding: NIH MH130918;
NIH MH130968

Availability: Free, Freely available

Resource Name: BRAIN Initiative Cell Atlas Network

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Alternate URLs: <https://www.braininitiative.org/funding-opportunity/brain-initiative-cell-atlas-network-bican-comprehensive-center-on-human-and-non-human-primate-brain-cell-atlases-um1-clinical-trial-not-allowed/>, <https://braininitiative.nih.gov/funding-opportunities/brain-initiative-cell-atlas-network-bican-specialized-collaboratory-human-non>

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Ratings and Alerts

No rating or validation information has been found for BRAIN Initiative Cell Atlas Network .

No alerts have been found for BRAIN Initiative Cell Atlas Network .

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 33 mentions in open access literature.

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

Zhu T, et al. (2026) Diffusion-MRI-Based Estimation of Cortical Architecture via Machine Learning (DECAM) in Primate Brains. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 13(14), e12752.

Kunst M, et al. (2026) SCALPEL: A pipeline for processing large-scale spatial transcriptomics data. bioRxiv : the preprint server for biology.

Kana OZ, et al. (2026) The Caudate Nucleus Exhibits Distinct Pathology and Cell Type-Specific Responses Across Alzheimer's Disease. bioRxiv : the preprint server for biology.

Takeda T, et al. (2026) Immune involvement in neuropsychiatric disorders: Insights from single-cell transcriptomic studies. Psychiatry and clinical neurosciences, 80(4), 241.

Berry JV, et al. (2025) UC Irvine's Brain Initiative Cell Atlas Network (BICAN) Brain Procurement Program for the Center for Multiomic Human Brain Cell Atlas Project. bioRxiv : the preprint server for biology.

Tao S, et al. (2025) Tissue-to-Bytes: A Catalytic Digital Twin Platform for Consortium-Scale Integration of Single-Cell Omics Data Across the BRAIN Initiative Cell Atlas Network. bioRxiv : the preprint server for biology.

Gao Y, et al. (2025) Continuous cell-type diversification in mouse visual cortex development. Nature, 647(8088), 127.

Nowakowski TJ, et al. (2025) The new frontier in understanding human and mammalian brain development. Nature, 647(8088), 51.

Sarwar A, et al. (2025) Cross-expression meta-analysis of mouse brain slices reveals coordinated gene expression across spatially adjacent cells. Genome biology, 26(1), 373.

Soorajkumar A, et al. (2025) Mapping human brain cell type origin and diseases through single-cell transcriptomics. Translational psychiatry, 15(1), 349.

Rego M, et al. (2025) Open-source antibodies as a path to enhanced research reproducibility and transparency. New biotechnology, 87, 121.

Tustison NJ, et al. (2025) The ANTsX ecosystem for mapping the mouse brain. *Nature communications*, 16(1), 11548.

Tustison NJ, et al. (2025) Modular strategies for spatial mapping of diverse cell type data of the mouse brain. *Research square*.

Wang N, et al. (2025) Fast Optimization of Robust Transcriptomics Embeddings using Probabilistic Inference Autoencoder Networks for multi-Omics. *bioRxiv : the preprint server for biology*.

van Velthoven CTJ, et al. (2025) Transcriptomic and spatial organization of telencephalic GABAergic neurons. *Nature*, 647(8088), 143.

French L, et al. (2025) Cluster replicability in single-cell and single-nucleus atlases of the mouse brain. *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*.

Gao Y, et al. (2024) Continuous cell type diversification throughout the embryonic and postnatal mouse visual cortex development. *bioRxiv : the preprint server for biology*.

Kenney M, et al. (2024) The Brain Image Library: A Community-Contributed Microscopy Resource for Neuroscientists. *bioRxiv : the preprint server for biology*.

Ament SA, et al. (2024) The single-cell opioid responses in the context of HIV (SCORCH) consortium. *Molecular psychiatry*.