

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 [NIF](#) .

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.

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*.

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

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. (2025) Transcriptomic and spatial organization of telencephalic GABAergic neurons. *Nature*, 647(8088), 143.

Gao Y, et al. (2024) Continuous cell type diversification throughout the embryonic and postnatal mouse visual cortex development. *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*.

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*.