

Resource Summary Report

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BICCN

RRID:SCR_015820

Type: Tool

Proper Citation

BICCN (RRID:SCR_015820)

Resource Information

URL: <https://biccn.org>

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Description: Consortium for the cell census in the brain. Integrated network of data generating centers, data archives, and data standards developers, with the goal of systematic multimodal brain cell type profiling and characterization. Emphasis of the BICCN is on the whole mouse brain with demonstration of prototype feasibility for human and nonhuman primate brains.

Abbreviations: BICCN

Synonyms: BICCN 2.0, BRAIN Initiative Cell Census Network, BRAIN Initiative Cell Census Network (BICCN)

Resource Type: portal, consortium, data or information resource, organization portal

Defining Citation: [PMID:37390046](#)

Keywords: cell census, neuroscience, brain, brain initiative cell census network, whole mouse brain,

Funding: NIMH U19 MH114821;
NIMH U19 MH114830;
NIMH U19 MH114831

Availability: Restricted

Resource Name: BICCN

Resource ID: SCR_015820

Alternate IDs: SCR_017266

Record Creation Time: 20220129T080327+0000

Record Last Update: 20260801T190530+0000

Ratings and Alerts

No rating or validation information has been found for BICCN.

No alerts have been found for BICCN.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 227 mentions in open access literature.

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

Hu Z, et al. (2025) CellWalker2: Multi-omic discovery using hierarchical cell type relationships. Cell genomics, 5(7), 100886.

Stouffer KM, et al. (2025) The xIV-LDDMM toolkit of image-varifold based technologies for mapping 3D images and spatial-omics across scales. Communications biology, 8(1), 1401.

Speir ML, et al. (2025) Making genomic data FAIR through effective Data Portals. Scientific data, 12(1), 1872.

Traunmüller L, et al. (2025) Novel environment exposure drives temporally defined and region-specific chromatin accessibility and gene expression changes in the hippocampus. Nature communications, 16(1), 7787.

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.

Wei S, et al. (2025) Glial changes and gene expression in Alzheimer's disease from snRNA-Seq and spatial transcriptomics. Journal of Alzheimer's disease : JAD, 105(2), 646.

Nano PR, et al. (2025) Integrated analysis of molecular atlases unveils modules driving developmental cell subtype specification in the human cortex. Nature neuroscience, 28(5), 949.

Imam FT, et al. (2025) Developing a multiscale neural connectivity knowledgebase of the autonomic nervous system. Frontiers in neuroinformatics, 19, 1541184.

Miao Z, et al. (2025) Depth-corrected multi-factor dissection of chromatin accessibility for scATAC-seq data with PACS. Nature communications, 16(1), 401.

Amin N, et al. (2025) Hif-1 α ablation reduces the efficiency of NeuroD1 gene-based therapy and aggravates the brain damage following ischemic stroke. *Expert opinion on drug delivery*, 22(1), 121.

Li Y, et al. (2025) SOAR elucidates biological insights and empowers drug discovery through spatial transcriptomics. *Science advances*, 11(24), eadt7450.

Mätlik K, et al. (2025) Cell Type-Specific Studies of Human Tissue for Investigation of the Molecular Cell Biology of Late-Onset Neurodegenerative Disease. *Annual review of neuroscience*, 48(1), 277.

Ciuba K, et al. (2025) Molecular signature of primate astrocytes reveals pathways and regulatory changes contributing to human brain evolution. *Cell stem cell*, 32(3), 426.

Apfelbaum AA, et al. (2025) A diverse landscape of FGFR alterations and co-mutations suggests potential therapeutic strategies in pediatric low-grade gliomas. *Nature communications*, 16(1), 7018.

Park J, et al. (2024) Integrated platform for multiscale molecular imaging and phenotyping of the human brain. *Science (New York, N.Y.)*, 384(6701), eadh9979.

Stouffer KM, et al. (2024) Cross-modality mapping using image varifolds to align tissue-scale atlases to molecular-scale measures with application to 2D brain sections. *Nature communications*, 15(1), 3530.

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

Wang W, et al. (2024) Single-cell and spatial alterations of neural cells and circuits in clinical and translational medicine. *Clinical and translational medicine*, 14(6), e1696.

Stouffer KM, et al. (2024) xIV-LDDMM Toolkit: A Suite of Image-Varifold Based Technologies for Representing and Mapping 3D Imaging and Spatial-omics Data Simultaneously Across Scales. *bioRxiv : the preprint server for biology*.

Schaub DP, et al. (2024) PCA-based spatial domain identification with state-of-the-art performance. *Bioinformatics (Oxford, England)*, 41(1).