Resource Summary Report

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Brain RNA-Seq

RRID:SCR_013736
Type: Tool

Proper Citation

Brain RNA-Seq (RRID:SCR_013736)

Resource Information

URL: http://web.stanford.edu/group/barres_lab/brain_rnaseq.html

Proper Citation: Brain RNA-Seq (RRID:SCR_013736)

Description: Database containing RNA-Seq transcriptome and splicing data from glia, neurons, and vascular cells of cerebral cortex. Collection of RNA-Seq transcriptome and splicing data from glia, neurons, and vascular cells of mouse cerebral cortex. RNA-Seq of cell types isolated from mouse and human brain.

Synonyms: Barres Brain RNA-Seq

Resource Type: data or information resource, database

Defining Citation: PMID:25186741, PMID:26687838

Keywords: RNAseq, transcriptome, splicing, data, glia, neuron vascular, cell, cerebral, cortex, mouse, human, brain, FASEB list

Funding: NIMH R01MH09955501;
NINDS R01NS08170301;
NIGMS T32GM007365

Availability: Free, Freely available

Resource Name: Brain RNA-Seq

Resource ID: SCR_013736

Alternate IDs: SCR_017483

Alternate URLs: http://www.brainrnaseq.org/

Record Creation Time: 20220129T080317+0000

Record Last Update: 20260729T044321+0000

Ratings and Alerts

No rating or validation information has been found for Brain RNA-Seq.

No alerts have been found for Brain RNA-Seq.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 109 mentions in open access literature.

Listed below are recent publications. The full list is available at PRECISE-TBI .

Loui J, et al. (2026) Neuronal THY1 Signaling Maintains Astrocytes in a Quiescent State. Glia, 74(1), e70083.

Jian B, et al. (2025) Cerebrospinal fluid quantitative proteomic reveals potential mechanisms and biomarker candidates of children with bacterial meningitis complicated by neurological complications. Clinical proteomics, 22(1), 26.

Helgueta S, et al. (2025) Park7 deletion leads to sex-specific transcriptome changes involving NRF2-CYP1B1 axis in mouse midbrain astrocytes. NPJ Parkinson's disease, 11(1), 8.

Lachota M, et al. (2025) Coordinated changes in midkine expression and midkine-associated multiomic profile in glioma microenvironment. Scientific reports, 15(1), 30587.

Cummins MJ, et al. (2025) Aging disrupts blood-brain and blood-spinal cord barrier homeostasis, but does not increase paracellular permeability. GeroScience, 47(1), 263.

Foley KE, et al. (2025) Acute Communication Between Microglia and Nonparenchymal Immune Cells in the Anti-A? Antibody-Injected Cortex. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(5).

Choi Y, et al. (2025) Blood-derived APLP1+ extracellular vesicles are potential biomarkers for the early diagnosis of brain diseases. Science advances, 11(1), eado6894.

Yap CC, et al. (2025) Late endosome transport by RILP-RAB7A promotes dendrite arborization. bioRxiv : the preprint server for biology.

Xu L, et al. (2025) Neuron-specific homologous coding genes and non-coding regulatory regions are the most conserved amongst amniotes despite neuron-specific cell size diversity. Scientific reports, 15(1), 43971.

Nandi S, et al. (2025) Synaptic Pruning by Microglia: Lessons from Genetic Studies in Mice. Developmental neuroscience, 47(5), 362.

Stockley JH, et al. (2025) Oligodendrocyte Slc48a1 (Hrg1) encodes a functional heme transporter required for myelin integrity. Glia, 73(2), 399.

Houmam S, et al. (2025) Oligodendrocytes show enriched expression of amyloid precursor protein and GABA B receptor isoform 1a. bioRxiv : the preprint server for biology.

Bae Y, et al. (2025) Astrocytic NHERF-1 Increases Seizure Susceptibility by Inhibiting Surface Expression of TREK-1. Glia, 73(4), 720.

Ashford BA, et al. (2025) Human amyotrophic lateral sclerosis/motor neuron disease: The disease-associated microglial pathway is upregulated while APOE genotype governs risk and survival. Brain pathology (Zurich, Switzerland), 35(6), e70019.

Wang S, et al. (2025) Microglial RUNX1/RBM47 ablation inhibits neuronal ferroptosis via regulating the cGAS-STING-MEF2C pathway in mice with postoperative cognitive dysfunction. Communications biology, 8(1), 1813.

Delvenne A, et al. (2025) Cerebrospinal fluid proteomic profiling of cognitively unimpaired individuals with suspected non-Alzheimer's disease pathophysiology. Brain communications, 7(4), fcaf253.

van den Bosch AMR, et al. (2024) Cortical CD200-CD200R and CD47-SIRP? expression is associated with multiple sclerosis pathology. Brain communications, 6(4), fcae264.

Ali M, et al. (2024) Single-Cell Transcriptional Profiling and Gene Regulatory Network Modeling in Tg2576 Mice Reveal Gender-Dependent Molecular Features Preceding Alzheimer-Like Pathologies. Molecular neurobiology, 61(2), 541.

Liddell JR, et al. (2024) Microglial ferroptotic stress causes non-cell autonomous neuronal death. Molecular neurodegeneration, 19(1), 14.

Zhang D, et al. (2024) Synaptic-like transmission between neural axons and arteriolar smooth muscle cells drives cerebral neurovascular coupling. Nature neuroscience, 27(2), 232.