

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: database, data or information resource

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: 20260725T191208+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.

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.

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.

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.

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

Foley KE, et al. (2025) Acute Communication Between Microglia and Nonparenchymal Immune Cells in the Anti-A β 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.

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.

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

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.

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.

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.

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.