

Resource Summary Report

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BRAIN

RRID:SCR_003018

Type: Tool

Proper Citation

BRAIN (RRID:SCR_003018)

Resource Information

URL: <http://bioconductor.org/packages/release/bioc/html/BRAIN.html>

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Description: Software package for calculating aggregated isotopic distribution and exact center-masses for chemical substances (in this version composed of C, H, N, O and S).

Synonyms: Baffling Recursive Algorithm for Isotopic distributionN calculations, Baffling Recursive Algorithm for Isotope distributionN

Resource Type: software resource

Defining Citation: [PMID:23350948](#)

Keywords: standalone software, mac os x, unix/linux, windows, r, mass spectrometry, proteomics, bio.tools

Availability: GNU General Public License, v2

Resource Name: BRAIN

Resource ID: SCR_003018

Alternate IDs: biotools:brain, OMICS_02410

Alternate URLs: <https://bio.tools/brain>

License: GNU General Public License, v2

Record Creation Time: 20220129T080216+0000

Record Last Update: 20260808T185751+0000

Ratings and Alerts

No rating or validation information has been found for BRAIN.

No alerts have been found for BRAIN.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 47 mentions in open access literature.

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

Asari Y, et al. (2026) Super-Resolution Deep Learning Reconstruction for T2*-Weighted Images: Improvement in Microbleed Lesion Detection and Image Quality. Journal of imaging informatics in medicine, 39(1), 805.

Cabrera LY, et al. (2026) Neurotechnology Governance in the United States: Gaps and Opportunities. Bioethics, 40(2), 225.

Ehlers DK, et al. (2025) Enhancing cognitive function in breast cancer survivors through community-based aerobic exercise training: protocol for a Hybrid Type I effectiveness-implementation study employing a randomised controlled design. BMJ open, 15(7), e104378.

Bader F, et al. (2025) The NIH BRAIN Initiative's Impacts in Systems and Computational Neuroscience and Team-Scale Research, 2014-2023. bioRxiv : the preprint server for biology.

Bader F, et al. (2025) The NIH BRAIN Initiative's impacts in systems and computational neuroscience and team-scale research 2014-2023. eLife, 14.

Adoncelchi G, et al. (2025) Comparison of Outcomes of Haploidentical Peripheral Blood Stem Cell Transplantation with Post-Transplant Cyclophosphamide in Older Versus Younger Patients. Cancers, 17(2).

Acosta-Martínez M, et al. (2025) Sex- and region-dependent neuroinflammation in Alzheimer's disease. Alzheimer's & dementia : the journal of the Alzheimer's Association, 21(4), e14603.

Ives AN, et al. (2025) Characterization of Cytokine Treatment on Human Pancreatic Islets by Top-Down Proteomics. Proteomics, 25(24), 55.

Williams LM, et al. (2025) Transport of CCL2 across an induced pluripotent stem cell-derived in vitro model of the human blood-brain barrier is heparan sulfate-dependent. PloS one, 20(12), e0338780.

Proietti J, et al. (2025) Retrospective characterization of seizure semiology and treatment using continuous video-EEG monitoring in neonatal encephalopathy in Uganda. Epileptic

disorders : international epilepsy journal with videotape, 27(1), 31.

Ferreira JHF, et al. (2025) Performance of cryptogenic new onset refractory status epilepticus score in a Brazilian cohort after testing for antineuronal antibodies with tissue-based and cell-based assays. *Epilepsia*, 66(7), 2285.

Trivedi P, et al. (2025) Performance of novel tau antibodies across multiple modalities for Alzheimer's disease assessment. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(7), e70481.

Mercuri AM, et al. (2025) The precision land knowledge of the past enables tailor-made environment therapy and empathy for nature. *Scientific reports*, 15(1), 12587.

Ruscher K, et al. (2025) Persistent increase of Nogo-A-positive cells and dynamic reduction in oligodendroglia lineage cells in white matter regions following experimental and clinical traumatic brain injury. *Journal of neuropathology and experimental neurology*, 84(5), 423.

Costa MR, et al. (2024) Switch of innate to adaptative immune responses in the brain of patients with Alzheimer's disease correlates with tauopathy progression. *npj aging*, 10(1), 19.

Ollen-Bittle N, et al. (2024) Co-registration of MALDI-MSI and histology demonstrates gangliosides co-localize with amyloid beta plaques in Alzheimer's disease. *Research square*.

Kalhor K, et al. (2024) Mapping human tissues with highly multiplexed RNA in situ hybridization. *Nature communications*, 15(1), 2511.

Mercuri AM, et al. (2024) BRAIN - Holocene archaeo-data for assessing plant-cultural diversity in Italy and other Mediterranean regions. *Scientific data*, 11(1), 520.

Ben-Simon Y, et al. (2024) A suite of enhancer AAVs and transgenic mouse lines for genetic access to cortical cell types. *bioRxiv : the preprint server for biology*.

Erickson MA, et al. (2024) Data-independent acquisition proteomic analysis of the brain microvasculature in Alzheimer's disease identifies major pathways of dysfunction and upregulation of cytoprotective responses. *Fluids and barriers of the CNS*, 21(1), 84.