Resource Summary Report

Generated by <u>NIF</u> on May 23, 2025

Brainstorm

RRID:SCR_001761 Type: Tool

Proper Citation

Brainstorm (RRID:SCR_001761)

Resource Information

URL: http://neuroimage.usc.edu/brainstorm/

Proper Citation: Brainstorm (RRID:SCR_001761)

Description: Software as collaborative, open source application dedicated to analysis of brain recordings: MEG, EEG, fNIRS, ECoG, depth electrodes and animal invasive neurophysiology. User-Friendly Application for MEG/EEG Analysis.

Abbreviations: Brainstorm

Synonyms: brainstorm3

Resource Type: data visualization software, data processing software, data analysis software, software application, software resource

Defining Citation: PMID:21584256

Keywords: MEG, EEG, data, magnetoencephalography, electroencephalography, visualization, processing, analysis, brain, recording, fNIRS, ECoG, electrophysiology

Funding: NIBIB R01 EB002010; NIBIB R01 EB009048; NIBIB R01 EB000473; NIBIB R01 EB026299; CNRS ; McGill University

Availability: Free, Available for download, Freely available

Resource Name: Brainstorm

Resource ID: SCR_001761

Alternate IDs: nif-0000-10267

Alternate URLs: http://www.nitrc.org/projects/bst, https://github.com/brainstorm-tools/brainstorm3

License: GNU General Public License

Record Creation Time: 20220129T080209+0000

Record Last Update: 20250523T054209+0000

Ratings and Alerts

No rating or validation information has been found for Brainstorm.

No alerts have been found for Brainstorm.

Data and Source Information

Source: <u>SciCrunch Registry</u>

Usage and Citation Metrics

We found 513 mentions in open access literature.

Listed below are recent publications. The full list is available at <u>NIF</u>.

Otten K, et al. (2025) The maturation of infant and toddler visual cortex neural activity and associations with fine motor performance. Developmental cognitive neuroscience, 71, 101501.

López-Caballero F, et al. (2025) Auditory sensory processing measures using EEG and MEG predict symptom recovery in first-episode psychosis with a single-tone paradigm. NeuroImage. Clinical, 45, 103730.

Hoshi H, et al. (2024) Oscillatory characteristics of resting-state magnetoencephalography reflect pathological and symptomatic conditions of cognitive impairment. Frontiers in aging neuroscience, 16, 1273738.

Kobayashi K, et al. (2024) Effective connectivity relates seizure outcome to electrode placement in responsive neurostimulation. Brain communications, 6(1), fcae035.

Douton JE, et al. (2024) Unraveling Sex Differences in Affect Processing: Unique Oscillatory Signaling Dynamics in the Infralimbic Cortex and Nucleus Accumbens Shell. Biological psychiatry global open science, 4(1), 354.

Sun L, et al. (2024) The investigation of dysregulated visual perceptual organization in adults with autism spectrum disorders with phase-amplitude coupling and directed connectivity. PloS one, 19(6), e0303959.

Dib M, et al. (2024) Electroconvulsive therapy modulates loudness dependence of auditory evoked potentials: a pilot MEG study. Frontiers in psychiatry, 15, 1434434.

Wang C, et al. (2024) Network disruption based on multi-modal EEG-MRI in ?synucleinopathies. Frontiers in neurology, 15, 1442851.

Coenen J, et al. (2024) Impact of moderate aerobic exercise on small-world topology and characteristics of brain networks after sport-related concussion: an exploratory study. Scientific reports, 14(1), 25296.

Bieth T, et al. (2024) Time course of EEG power during creative problem-solving with insight or remote thinking. Human brain mapping, 45(1), e26547.

Casula EP, et al. (2024) Real-time cortical dynamics during motor inhibition. Scientific reports, 14(1), 7871.

Rajan J, et al. (2024) Relation between heart rate variability and spectral analysis of electroencephalogram in chronic neuropathic pain patients. The Korean journal of physiology & pharmacology : official journal of the Korean Physiological Society and the Korean Society of Pharmacology, 28(3), 253.

Nakamura K, et al. (2024) Dorsal brain activity reflects the severity of menopausal symptoms. Menopause (New York, N.Y.), 31(5), 399.

Whittaker HT, et al. (2024) Information-based rhythmic transcranial magnetic stimulation to accelerate learning during auditory working memory training: a proof-of-concept study. Frontiers in neuroscience, 18, 1355565.

Olivia VR, et al. (2024) QEEG indices in traumatic brain injury - insights from the CAPTAIN RTMS trial. Journal of medicine and life, 17(3), 318.

Gambini L, et al. (2024) Video frame interpolation neural network for 3D tomography across different length scales. Nature communications, 15(1), 7962.

De Riggi M, et al. (2024) CACNA1G Causes Dominantly Inherited Myoclonus-Ataxia with Intellectual Disability: A Case Report. Cerebellum (London, England), 23(6), 2679.

El Zein M, et al. (2024) Prioritized neural processing of social threats during perceptual decision-making. iScience, 27(6), 109951.

da Silva Castanheira J, et al. (2024) The neurophysiological brain-fingerprint of Parkinson's disease. EBioMedicine, 105, 105201.

Lago S, et al. (2024) Pre-Stimulus Activity of Left and Right TPJ in Linguistic Predictive Processing: A MEG Study. Brain sciences, 14(10).