Resource Summary Report

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NUTMEG

RRID:SCR_002748
Type: Tool

Proper Citation

NUTMEG (RRID:SCR_002748)

Resource Information

URL: http://www.radiology.ucsf.edu/research/labs/biomagnetic-imaging/nutmeg

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Description: Software MEG/EEG analysis toolbox for reconstructing neural activation and overlaying it onto structural MR images. Toolbox runs under MATLAB in conjunction with SPM2 and can be used with Linux/UNIX, Mac OS X, and Windows platforms.

Abbreviations: NUTMEG

Synonyms: Neurodynamic Utility Toolbox for Magnetoencephalography and Electroencephalography

Resource Type: signal processing software, data analysis software, software application, data processing software, image analysis software, 1d time-series analysis software, time-series analysis software, software resource

Defining Citation: PMID:16012626

Keywords: MEG, EEG, analysis, reconstructing, neural, activation, overlaying, structural, MR, image, BRAIN Initiative

Funding: NIBIB EB022717;
NIDCD F31 DC006762;
NIDCD R01 DC004855

Availability: Free, Freely available

Resource Name: NUTMEG

Resource ID: SCR_002748

Alternate IDs: nif-0000-24052

Alternate URLs: http://www.nitrc.org/projects/nutmeg, https://github.com/UCSFBiomagneticImagingLab/nutmeg

License: BSD License

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Ratings and Alerts

No rating or validation information has been found for NUTMEG.

No alerts have been found for NUTMEG.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 26 mentions in open access literature.

Listed below are recent publications. The full list is available at dkNET.

Kshatriya N, et al. (2024) Structural and functional brain alterations in laryngeal dystonia: A coordinate-based activation likelihood estimation meta-analysis. Human brain mapping, 45(14), e70000.

Verma P, et al. (2024) Impaired long-range excitatory time scale predicts abnormal neural oscillations and cognitive deficits in Alzheimer's disease. Alzheimer's research & therapy, 16(1), 62.

Hinkley LBN, et al. (2023) Distinct neurophysiology during nonword repetition in logopenic and non-fluent variants of primary progressive aphasia. Human brain mapping, 44(14), 4833.

Seeburger R, et al. (2023) Linking Methanogenesis in Low-Temperature Hydrothermal Vent Systems to Planetary Spectra: Methane Biosignatures on an Archean-Earth-like Exoplanet. Astrobiology, 23(4), 415.

Jin H, et al. (2023) Bayesian inference of a spectral graph model for brain oscillations. NeuroImage, 279, 120278.

Krishna S, et al. (2023) Glioblastoma remodelling of human neural circuits decreases survival. Nature, 617(7961), 599.

Jin H, et al. (2023) Dynamic functional connectivity MEG features of Alzheimer's disease. NeuroImage, 281, 120358.

Bhutada AS, et al. (2022) Clinical Validation of the Champagne Algorithm for Evoked Response Source Localization in Magnetoencephalography. Brain topography, 35(1), 96.

Verma P, et al. (2022) Spectral graph theory of brain oscillations--Revisited and improved. NeuroImage, 249, 118919.

Mac-Auliffe D, et al. (2021) The Dual-Task Cost Is Due to Neural Interferences Disrupting the Optimal Spatio-Temporal Dynamics of the Competing Tasks. Frontiers in behavioral neuroscience, 15, 640178.

Shang Y, et al. (2020) Cross-modal plasticity in adult single-sided deafness revealed by alpha band resting-state functional connectivity. NeuroImage, 207, 116376.

Demopoulos C, et al. (2020) Global resting-state functional connectivity of neural oscillations in tinnitus with and without hearing loss. Human brain mapping, 41(10), 2846.

Raj A, et al. (2020) Spectral graph theory of brain oscillations. Human brain mapping, 41(11), 2980.

Perrone-Bertolotti M, et al. (2020) A real-time marker of object-based attention in the human brain. A possible component of a "gate-keeping mechanism" performing late attentional selection in the Ventro-Lateral Prefrontal Cortex. NeuroImage, 210, 116574.

Hinkley LBN, et al. (2020) NUTMEG: Open Source Software for M/EEG Source Reconstruction. Frontiers in neuroscience, 14, 710.

Bulubas L, et al. (2020) Motor Cortical Network Plasticity in Patients With Recurrent Brain Tumors. Frontiers in human neuroscience, 14, 118.

Herman AB, et al. (2020) The Visual Word Form Area compensates for auditory working memory dysfunction in schizophrenia. Scientific reports, 10(1), 8881.

Ranasinghe KG, et al. (2019) Neural correlates of abnormal auditory feedback processing during speech production in Alzheimer's disease. Scientific reports, 9(1), 5686.

Waldhauser GT, et al. (2018) The neural dynamics of deficient memory control in heavily traumatized refugees. Scientific reports, 8(1), 13132.

Mottaz A, et al. (2018) Modulating functional connectivity after stroke with neurofeedback: Effect on motor deficits in a controlled cross-over study. NeuroImage. Clinical, 20, 336.