

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: data analysis software, signal processing software, software application, image analysis software, data processing software, time-series analysis software, 1d 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.

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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.

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

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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.

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.

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