Resource Summary Report

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fMRI Artefact rejection and Sleep Scoring Toolbox

RRID:SCR_009620
Type: Tool

Proper Citation

fMRI Artefact rejection and Sleep Scoring Toolbox (RRID:SCR_009620)

Resource Information

URL: http://www.montefiore.ulg.ac.be/~phillips/FASST.html

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Description: An EEG toolbox developed to help users with 3 specific types of data and problems: simulatenous EEG-fMRI recording, continuous EEG scoring (e.g. sleep) and handling (visualisation, cutting, power spectrum, etc.) multi-channel recording of spontaneous EEG. The toolbox is written in Matlab and is specifically compatible with the BrainAmp family of EEG recorders (from BrainProducts GmbH) Three other data formats are now also supported: the edf "European Data Format", exported raw-EGI data (from Electrical Geodesics, Inc.) and the BCI2000 format.The results are directly compatible with SPM8 and are saved with SPM8 EEG data format.

Abbreviations: FASST

Synonyms: FASST - fMRI Artefact rejection and Sleep Scoring Toolbox

Resource Type: software resource, software toolkit, software application

Defining Citation: PMID:21461381

Keywords: eeg, meg, electrocorticography, matlab, magnetic resonance, os independent, visualization

Availability: GNU General Public License

Resource Name: fMRI Artefact rejection and Sleep Scoring Toolbox

Resource ID: SCR_009620

Alternate IDs: nlx_155846

Alternate URLs: http://www.nitrc.org/projects/fasst

Record Creation Time: 20220129T080254+0000

Record Last Update: 20260803T040552+0000

Ratings and Alerts

No rating or validation information has been found for fMRI Artefact rejection and Sleep Scoring Toolbox.

No alerts have been found for fMRI Artefact rejection and Sleep Scoring Toolbox.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 17 mentions in open access literature.

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

Koa TB, et al. (2025) Changes in sleep architecture during recurrent cycles of sleep restriction: a comparison between stable and variable short sleep schedules. Sleep advances : a journal of the Sleep Research Society, 6(2), zpaf016.

Jacob LPL, et al. (2024) Distributed fMRI dynamics predict distinct EEG rhythms across sleep and wakefulness. bioRxiv : the preprint server for biology.

Chee NIYN, et al. (2021) Multi-Night Validation of a Sleep Tracking Ring in Adolescents Compared with a Research Actigraph and Polysomnography. Nature and science of sleep, 13, 177.

Sasai S, et al. (2021) Frequency-specific task modulation of human brain functional networks: A fast fMRI study. NeuroImage, 224, 117375.

Koroma M, et al. (2020) Sleepers Selectively Suppress Informative Inputs during Rapid Eye Movements. Current biology : CB, 30(12), 2411.

Lo JC, et al. (2019) Differential effects of split and continuous sleep on neurobehavioral function and glucose tolerance in sleep-restricted adolescents. Sleep, 42(5).

Van Egroo M, et al. (2019) Steady-State Pupil Size Varies with Circadian Phase and Sleep Homeostasis in Healthy Young Men. Clocks & sleep, 1(2), 240.

Gaggioni G, et al. (2018) Human fronto-parietal response scattering subserves vigilance at night. NeuroImage, 175, 354.

Lo JC, et al. (2017) Neurobehavioral Impact of Successive Cycles of Sleep Restriction With and Without Naps in Adolescents. Sleep, 40(2).

Fogel S, et al. (2017) Reactivation or transformation? Motor memory consolidation associated with cerebral activation time-locked to sleep spindles. PloS one, 12(4), e0174755.

Lo JC, et al. (2016) Sleep deprivation increases formation of false memory. Journal of sleep research, 25(6), 673.

Kurniawan IT, et al. (2016) Procedural performance following sleep deprivation remains impaired despite extended practice and an afternoon nap. Scientific reports, 6, 36001.

't Wallant DC, et al. (2016) Automatic artifacts and arousals detection in whole-night sleep EEG recordings. Journal of neuroscience methods, 258, 124.

Jochaut D, et al. (2015) Atypical coordination of cortical oscillations in response to speech in autism. Frontiers in human neuroscience, 9, 171.

Albouy G, et al. (2013) Daytime sleep enhances consolidation of the spatial but not motoric representation of motor sequence memory. PloS one, 8(1), e52805.

Litvak V, et al. (2011) EEG and MEG data analysis in SPM8. Computational intelligence and neuroscience, 2011, 852961.

Leclercq Y, et al. (2011) fMRI artefact rejection and sleep scoring toolbox. Computational intelligence and neuroscience, 2011, 598206.