Resource Summary Report

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JIP Analysis Toolkit

RRID:SCR_009588
Type: Tool

Proper Citation

JIP Analysis Toolkit (RRID:SCR_009588)

Resource Information

URL: http://www.nmr.mgh.harvard.edu/~jbm/jip/

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Description: Software toolkit for analysis of rodent and non-human primate fMRI data. The toolkit consists of binary executables, highly portable open-source c code, and image resources that enable 1) Automated registration based upon mutual information (affine, non-linear warps), with flexible control and visualization of each step; 2) visualization of 4-dimensional data using either mosaic or tri-planar display of the z/slice dimension, and integration of a general linear model for graphical display of time series analysis; 3) A simple and flexible 1st-order GLM for fMRI time series analysis, a 1st-order GLM analysis for PET data within the SRTM framework, plus a 2nd-order GLM analysis following the Worsley 2002 scheme, and 4) MRI templates to place your rodent and non-human primate data into standardized spaces.

Abbreviations: JIP Toolkit

Synonyms: JIP fMRI Analysis Toolkit

Resource Type: software toolkit, software application, software resource, image analysis software, data processing software

Keywords: affine warp, atlas application, atlas data, c, console (text based), image display, image-to-image, linux, macos, magnetic resonance, nifti, nonlinear warp, pet, spect, posix/unix-like, registration, resampling, spatial transformation, time domain analysis, visualization, warping, fmri

Funding: NIBIB R03EB008134

Availability: MGH CSRL License

Resource Name: JIP Analysis Toolkit

Resource ID: SCR_009588

Alternate IDs: nlx_155778

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

Record Creation Time: 20220129T080253+0000

Record Last Update: 20250419T055216+0000

Ratings and Alerts

No rating or validation information has been found for JIP Analysis Toolkit.

No alerts have been found for JIP Analysis Toolkit.

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 NIF.

Yassin W, et al. (2024) Resting-State Networks of Awake Adolescent and Adult Squirrel Monkeys Using Ultra-High Field (9.4?T) Functional Magnetic Resonance Imaging. eNeuro, 11(5).

Ensel S, et al. (2024) Transient brain activity dynamics discriminate levels of consciousness during anesthesia. Communications biology, 7(1), 716.

Luppi AI, et al. (2023) General anaesthesia reduces the uniqueness of brain connectivity across individuals and across species. bioRxiv : the preprint server for biology.

Cui D, et al. (2023) Categorization learning induced changes in action representations in the macaque STS. NeuroImage, 265, 119780.

Sypré L, et al. (2023) Functional characterization of macaque insula using task-based and resting-state fMRI. NeuroImage, 276, 120217.

Sypré L, et al. (2023) Intrinsic functional clustering of the macaque insular cortex. Frontiers in integrative neuroscience, 17, 1272529.

Jørgensen LM, et al. (2022) An fMRI-compatible system for targeted electrical stimulation. Journal of neuroscience methods, 378, 109659.

Zafirova Y, et al. (2022) Keep the head in the right place: Face-body interactions in inferior temporal cortex. NeuroImage, 264, 119676.

Fiave PA, et al. (2021) Motor resonance in monkey parietal and premotor cortex during action observation: Influence of viewing perspective and effector identity. NeuroImage, 224, 117398.

Cui D, et al. (2021) Examining cross-modal fMRI adaptation for observed and executed actions in the monkey brain. NeuroImage, 233, 117988.

Tasserie J, et al. (2020) Pypreclin: An automatic pipeline for macaque functional MRI preprocessing. NeuroImage, 207, 116353.

Shepherd SV, et al. (2018) Functional Networks for Social Communication in the Macaque Monkey. Neuron, 99(2), 413.

Sharma S, et al. (2018) Functional MRI Responses to Passive, Active, and Observed Touch in Somatosensory and Insular Cortices of the Macaque Monkey. The Journal of neuroscience : the official journal of the Society for Neuroscience, 38(15), 3689.

Arcaro MJ, et al. (2017) A hierarchical, retinotopic proto-organization of the primate visual system at birth. eLife, 6.

Liu PK, et al. (2016) Epigenetics of amphetamine-induced sensitization: HDAC5 expression and microRNA in neural remodeling. Journal of biomedical science, 23(1), 90.

De Winter FL, et al. (2015) Lateralization for dynamic facial expressions in human superior temporal sulcus. NeuroImage, 106, 340.

Schwiedrzik CM, et al. (2015) Face Patch Resting State Networks Link Face Processing to Social Cognition. PLoS biology, 13(9), e1002245.