Resource Summary Report

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SPM

RRID:SCR_007037 Type: Tool

Proper Citation

SPM (RRID:SCR_007037)

Resource Information

URL: https://github.com/spm

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Description: Software package for analysis of brain imaging data sequences. Sequences can be a series of images from different cohorts, or time-series from same subject. Current release is designed for analysis of fMRI, PET, SPECT, EEG and MEG.

Abbreviations: SPM

Synonyms: Statistical Parametric Mapping, SPM5, SPM2, SPM12, Statistical Parametric Mapping Software, SPM99, SPM8, SPM, SPM96

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

Keywords: analysis, brain, imaging, data, sequence, fMRI, PET, SPECT, EEG, MEG, bio.tools

Funding:

Availability: Free, Available for download, Freely available

Resource Name: SPM

Resource ID: SCR_007037

Alternate IDs: biotools:SPM

Alternate URLs: https://github.com/spm/spm12, https://bio.tools/SPM

Old URLs: https://www.fil.ion.ucl.ac.uk/spm/

License: GNU General Public License

Record Creation Time: 20220129T080239+0000

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Ratings and Alerts

No rating or validation information has been found for SPM.

Warning: An early version of this tool produces an error leading to inflated false positive rates.

Data and Source Information

Source: <u>SciCrunch Registry</u>

Usage and Citation Metrics

We found 8619 mentions in open access literature.

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

Dumitrescu AM, et al. (2025) Investigating the Spatio-Temporal Signatures of Language Control-Related Brain Synchronization Processes. Human brain mapping, 46(2), e70109.

Khodadadi Arpanahi S, et al. (2025) Mapping Alzheimer's disease stages toward it's progression: A comprehensive cross-sectional and longitudinal study using resting-state fMRI and graph theory. Ageing research reviews, 103, 102590.

Hynd M, et al. (2025) Estradiol modulates resting-state connectivity in perimenopausal depression. Journal of affective disorders, 371, 253.

Dahms C, et al. (2024) Connecting the dots: Motor and default mode network crossroads in post-stroke motor learning deficits. NeuroImage. Clinical, 42, 103601.

Yang Y, et al. (2024) Improve the diagnosis of idiopathic normal pressure hydrocephalus by combining abnormal cortical thickness and ventricular morphometry. Frontiers in aging neuroscience, 16, 1338755.

Yang Y, et al. (2024) Right superior frontal gyrus: A potential neuroimaging biomarker for predicting short-term efficacy in schizophrenia. NeuroImage. Clinical, 42, 103603.

Schweitzer N, et al. (2024) Sex-dependent alterations in hippocampal connectivity are linked to cerebrovascular and amyloid pathologies in normal aging. Alzheimer's & dementia : the journal of the Alzheimer's Association, 20(2), 914.

Barnett B, et al. (2024) Identifying content-invariant neural signatures of perceptual vividness. PNAS nexus, 3(2), pgae061.

Hollunder B, et al. (2024) Mapping dysfunctional circuits in the frontal cortex using deep brain stimulation. Nature neuroscience, 27(3), 573.

Jeong SH, et al. (2024) Different effect of hypo- and hypermetabolism on cognition in dementia with Lewy bodies: are they coupled or independent? NPJ Parkinson's disease, 10(1), 4.

Koob JL, et al. (2024) Behavioral and neuroanatomical correlates of facial emotion processing in post-stroke depression. NeuroImage. Clinical, 41, 103586.

Liu C, et al. (2024) The neural representation of metacognition in preferential decisionmaking. Human brain mapping, 45(6), e26651.

Aganj I, et al. (2024) Automatic Geometry-based Estimation of the Locus Coeruleus Region on T1-Weighted Magnetic Resonance Images. bioRxiv : the preprint server for biology.

Saha C, et al. (2024) Gray and White Matter Voxel-Based Morphometry of Alzheimer's Disease With and Without Significant Cerebrovascular Pathologies. Neuroscience insights, 19, 26331055231225657.

Huang W, et al. (2024) DCP: A pipeline toolbox for diffusion connectome. Human brain mapping, 45(3), e26626.

Zhou Y, et al. (2024) The social transmission of empathy relies on observational reinforcement learning. Proceedings of the National Academy of Sciences of the United States of America, 121(9), e2313073121.

Aganj I, et al. (2024) Automatic geometry-based estimation of the locus coeruleus region on T1-weighted magnetic resonance images. Frontiers in neuroscience, 18, 1375530.

Pagni BA, et al. (2024) Psilocybin-induced changes in neural reactivity to alcohol and emotional cues in patients with alcohol use disorder: an fMRI pilot study. Scientific reports, 14(1), 3159.

Vadinova V, et al. (2024) The volume and the distribution of premorbid white matter hyperintensities: Impact on post-stroke aphasia. Human brain mapping, 45(1), e26568.

Chen Y, et al. (2024) Pathology-specific patterns of cerebellar atrophy in neurodegenerative disorders. Alzheimer's & dementia : the journal of the Alzheimer's Association, 20(3), 1771.