

Resource Summary Report

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FSL

RRID:SCR_002823

Type: Tool

Proper Citation

FSL (RRID:SCR_002823)

Resource Information

URL: <http://www.fmrib.ox.ac.uk/fsl/>

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Description: Software library of image analysis and statistical tools for fMRI, MRI and DTI brain imaging data. Include registration, atlases, diffusion MRI tools for parameter reconstruction and probabilistic tractography, and viewer. Several brain atlases, integrated into FSLView and Featquery, allow viewing of structural and cytoarchitectonic standard space labels and probability maps for cortical and subcortical structures and white matter tracts. Includes Harvard-Oxford cortical and subcortical structural atlases, Julich histological atlas, JHU DTI-based white-matter atlases, Oxford thalamic connectivity atlas, Talairach atlas, MNI structural atlas, and Cerebellum atlas.

Synonyms: , FMRIB Software Library, fMRIB Software Library, Functional Magnetic Resonance Imaging of the Brain Software Library

Resource Type: software library, software toolkit, software resource

Defining Citation: [PMID:21979382](#), [PMID:19059349](#), [PMID:15501092](#)

Keywords: dti, brain, imaging, data, structural, mri, diffusion, function, preprocessing, analysis, statistical, tractography, atlas, neuroimaging, parameter, reconstruction, volumetric, segmentation, independent, component, temporal, transformation

Funding: EPSRC ;
MRC ;
BBSRC ;
GlaxoSmithKline ;
Pfizer

Availability: Free, Available for download, Freely available

Resource Name: FSL

Resource ID: SCR_002823

Alternate IDs: nif-0000-00305, birnlex_2067, SCR_007368

Alternate URLs: <http://www.nitrc.org/projects/fsl>, <http://fsl.fmrib.ox.ac.uk/fsl/fslwiki/>, <https://sources.debian.org/src/fsl/>

License: FSL License

Record Creation Time: 20220129T080215+0000

Record Last Update: 20260729T044032+0000

Ratings and Alerts

No rating or validation information has been found for FSL.

No alerts have been found for FSL.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 4685 mentions in open access literature.

Listed below are recent publications. The full list is available at [SPARC SAWG](#) .

Wang M, et al. (2026) Global White Matter Damage in Focal Brainstem Injury Patients With Disorders of Consciousness: A Diffusion Tensor Tractography Study. *European journal of neurology*, 33(1), e70476.

West JT, et al. (2026) Exploring the neural underpinnings of semantic and perceptual false memory formation. *Neuropsychologia*, 221, 109332.

Chen S, et al. (2025) Glymphatic dysfunction associated with cortisol dysregulation in major depressive disorder. *Translational psychiatry*, 15(1), 265.

Segal A, et al. (2025) Brain network dynamics following induced acute stress: a neural marker of psychological vulnerability to real-life chronic stress. *Psychological medicine*, 55, e187.

Nakajima R, et al. (2025) Broader functionality of language areas at the left middle frontal gyrus in patients with Broca's area tumors. *NeuroImage. Clinical*, 48, 103860.

Sheng WA, et al. (2025) The macaque ventral intraparietal functional connectivity patterns reveal an antero-posterior specialization mirroring that described in human ventral intraparietal area. *Imaging neuroscience (Cambridge, Mass.)*, 3.

- Alvarez I, et al. (2025) Characterizing Human Disparity Tuning Properties Using Population Receptive Field Mapping. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 45(12), e0795242025.
- Ge W, et al. (2025) Dissociable ventral and dorsal sensorimotor functional circuits linking the hypomanic personality traits to aggression via behavioral inhibition system. *International journal of clinical and health psychology : IJCHP*, 25(1), 100537.
- Gao S, et al. (2025) Effects on Multimodal Connectivity Patterns in Female Schizophrenia During 8 Weeks of Antipsychotic Treatment. *Schizophrenia bulletin*, 51(3), 829.
- Tashjian SM, et al. (2025) Subregions in the ventromedial prefrontal cortex integrate threat and protective information to meta-represent safety. *PLoS biology*, 23(1), e3002986.
- Nguchu BA, et al. (2025) Modulation and distribution of extracellular free water and tract deficits in rhesus macaques before and after the initiation of emtricitabine + tenofovir disoproxil fumarate + dolutegravir treatment. *Frontiers in immunology*, 16, 1463434.
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- Piccinini JI, et al. (2025) Transient destabilization of whole brain dynamics induced by N,N-Dimethyltryptamine (DMT). *Communications biology*, 8(1), 409.
- Lawn W, et al. (2025) Value signals guiding choices for cannabis versus non-drug rewards in people who use cannabis near-daily. *Psychopharmacology*, 242(4), 681.
- Timmers I, et al. (2025) Neural evidence for the effects of behavioral memory updating following fear conditioning. *Communications psychology*, 3(1), 153.
- Zheng L, et al. (2025) Newly trained navigation and verbal memory skills in humans elicit changes in task-related networks but not brain structure. *eLife*, 14.
- Struber L, et al. (2025) Savings in visuomotor learning are associated with connectivity changes within a cerebello-thalamo-cortical network encoding movement errors. *Brain structure & function*, 230(8), 156.
- Dmitrieva X, et al. (2025) Shared phonological networks in frontal and temporal cortex for language production and comprehension. *Cerebral cortex (New York, N.Y. : 1991)*, 35(10).
- Morgenroth E, et al. (2025) Emo-FilM: A multimodal dataset for affective neuroscience using naturalistic stimuli. *Scientific data*, 12(1), 684.
- Wang J, et al. (2025) Changes in brain functional connectivity and clinical correlations in neuromyelitis optica spectrum disorder: a longitudinal resting-state fMRI study. *European journal of medical research*, 30(1), 399.