

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 resource, software toolkit

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: 20250424T064606+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 4449 mentions in open access literature.

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

Isherwood S, et al. (2025) Multi-study fMRI outlooks on subcortical BOLD responses in the stop-signal paradigm. eLife, 12.

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.

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.

Heukamp NJ, et al. (2025) Beyond the chronic pain stage: default mode network perturbation depends on years lived with back pain. *Pain*, 166(1), 160.

Harrison TM, et al. (2025) The POINTER Imaging baseline cohort: Associations between multimodal neuroimaging biomarkers, cardiovascular health, and cognition. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 21(1), e14399.

Hempel M, et al. (2025) Aberrant associations between neuronal resting-state fluctuations and working memory-induced activity in major depressive disorder. *Molecular psychiatry*, 30(1), 4.

Ito A, et al. (2025) Interhemispheric and Corticothalamic White-Matter Dysfunction Underlies Affective Morbidity and Impaired Pain Modulation in Chronic Pain. *Anesthesia and analgesia*, 140(2), 465.

Kang S, et al. (2025) White matter hyperintensities and cholinergic degeneration as Lewy body disease. *Annals of clinical and translational neurology*, 12(1), 97.

Xu J, et al. (2025) Multidimensional structural analyses revealed a correlation between thalamic atrophy and white matter degeneration in idiopathic dystonia. *Brain communications*, 7(1), fcaf026.

McIntyre CC, et al. (2025) Insulin resistance, cognition, and functional brain network topology in older adults with obesity. *bioRxiv : the preprint server for biology*.

Ji Z, et al. (2024) Magnetoencephalography Language Mapping Using Auditory Memory Retrieval and Silent Repeating Task. *Journal of clinical neurophysiology : official publication of the American Electroencephalographic Society*, 41(2), 148.

Mahmoodi A, et al. (2024) A frontopolar-temporal circuit determines the impact of social information in macaque decision making. *Neuron*, 112(1), 84.

Yin Y, et al. (2024) Impaired glymphatic system revealed by DTI-ALPS in cerebral palsy due to periventricular leukomalacia: relation with brain lesion burden and hand dysfunction. *Neuroradiology*, 66(2), 261.

Ling W, et al. (2024) Self-esteem mediates the relationship between the parahippocampal gyrus and decisional procrastination at resting state. *Frontiers in neuroscience*, 18, 1341142.

Demidenko MI, et al. (2024) A multi-sample evaluation of the measurement structure and function of the modified monetary incentive delay task in adolescents. *Developmental cognitive neuroscience*, 65, 101337.

Shao X, et al. (2024) Distinctive and Complementary Roles of Default Mode Network Subsystems in Semantic Cognition. *The Journal of neuroscience : the official journal of the Society for Neuroscience*, 44(20).

Heukamp NJ, et al. (2024) Adolescents' pain-related ontogeny shares a neural basis with adults' chronic pain in basothalamo-cortical organization. *iScience*, 27(2), 108954.

Sakaki M, et al. (2024) Motivated with joy or anxiety: Does approach-avoidance goal framing elicit differential reward-network activation in the brain? *Cognitive, affective & behavioral neuroscience*, 24(3), 469.

Alafandi A, et al. (2024) Probing the glioma microvasculature: a case series of the comparison between perfusion MRI and intraoperative high-frame-rate ultrafast Doppler ultrasound. *European radiology experimental*, 8(1), 13.

Yang G, et al. (2024) Dorsolateral prefrontal activity supports a cognitive space organization of cognitive control. *eLife*, 12.