

Resource Summary Report

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FMRIB's Integrated Registration and Segmentation Tool

RRID:SCR_024921

Type: Tool

Proper Citation

FMRIB's Integrated Registration and Segmentation Tool (RRID:SCR_024921)

Resource Information

URL: <https://fsl.fmrib.ox.ac.uk/fsl/fslwiki/FIRST>

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Description: Software model based segmentation and registration tool. Used for segmentation of sub-cortical structures. Introduces basic segmentation and vertex analysis for detecting group differences.

Abbreviations: FIRST

Synonyms: , Functional Magnetic Resonance Imaging of the Brain's Integrated Registration and Segmentation Tool

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

Defining Citation: [PMID:21352927](#)

Keywords: Functional Magnetic Resonance Imaging of the Brain, segmentation, registration, volumetric segmentation, performing vertex analysis,

Funding: NCRR P41 RR14075;
NCRR R01 RR16594;
NIDA R01 DA017905;
NIMH K01 MH01798;
NIMH K08 MH01573;
NINDS R01 NS052585

Availability: Free, Freely available

Resource Name: FMRIB's Integrated Registration and Segmentation Tool

Resource ID: SCR_024921

Record Creation Time: 20240129T210604+0000

Record Last Update: 20260905T133445+0000

Ratings and Alerts

No rating or validation information has been found for FMRIB's Integrated Registration and Segmentation Tool.

No alerts have been found for FMRIB's Integrated Registration and Segmentation Tool.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 7 mentions in open access literature.

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

Wenger AL, et al. (2026) Clinical and MRI substrates of Symbol Digit Modalities Test impairment in multiple sclerosis patients with an adult- and late-onset. Multiple sclerosis (Houndmills, Basingstoke, England), 32(3), 289.

Fu J, et al. (2026) Genome-wide association studies of brain diffusion kurtosis imaging phenotypes. EBioMedicine, 127, 106261.

Feng Z, et al. (2025) Selective Hippocampal Subfield Atrophy Mediates Cognitive Decline in Cushing's Disease. Brain and behavior, 15(11), e71030.

Yang W, et al. (2024) The longitudinal volumetric and shape changes of subcortical nuclei in Parkinson's disease. Scientific reports, 14(1), 7494.

Uddin MN, et al. (2022) The comorbidity and cognition in multiple sclerosis (CCOMS) neuroimaging protocol: Study rationale, MRI acquisition, and minimal image processing pipelines. Frontiers in neuroimaging, 1, 970385.

Zhou Z, et al. (2022) Alterations in brain structure and function associated with pediatric growth hormone deficiency: A multi-modal magnetic resonance imaging study. Frontiers in neuroscience, 16, 1043857.

Sarasso E, et al. (2022) MRI biomarkers of freezing of gait development in Parkinson's disease. NPJ Parkinson's disease, 8(1), 158.