FreeSurfer
RRID:SCR_001847
Type: Tool

Proper Citation

FreeSurfer (RRID:SCR_001847)

Resource Information

URL: http://surfer.nmr.mgh.harvard.edu/
Proper Citation: FreeSurfer (RRID:SCR_001847)

Description: Open source software suite for processing and analyzing human brain MRI images. Used for reconstruction of brain cortical surface from structural MRI data, and overlay of functional MRI data onto reconstructed surface. Contains automatic structural imaging stream for processing cross sectional and longitudinal data. Provides anatomical analysis tools, including: representation of cortical surface between white and gray matter, representation of the pial surface, segmentation of white matter from rest of brain, skull stripping, B1 bias field correction, nonlinear registration of cortical surface of individual with stereotaxic atlas, labeling of regions of cortical surface, statistical analysis of group morphometry differences, and labeling of subcortical brain structures. Operating System: Linux, macOS.

Abbreviations: FreeSurfer

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

Defining Citation: PMID:22248573

Keywords: processing, analysis, human, brain, MRI, image, reconstruction, cortical, surface, fMRI, data

Funding Agency: NCRR, NINDS, NCRR

Availability: Free, Available for download, Freely available
**Resource Name:** FreeSurfer

**Resource ID:** SCR_001847

**Alternate IDs:** nif-0000-00304


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**Ratings and Alerts**


No alerts have been found for FreeSurfer.

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**Data and Source Information**

**Source:** [SciCrunch Registry](http://www.nitrc.org/projects/freesurfer)

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**Usage and Citation Metrics**

We found 8963 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [FDI Lab - SciCrunch.org](http://www.nitrc.org/projects/freesurfer).


Claus J, et al. (2023) Physical Activity Alters Functional Connectivity of Orbitofrontal Cortex Subdivisions in Healthy Young Adults: A Longitudinal fMRI Study. Healthcare (Basel, Switzerland), 11(5).


Morales AM, et al. (2023) Alcohol-induced changes in mesostriatal resting-state functional connectivity are linked to sensation seeking in young adults. Alcoholism, clinical and experimental research, 47(4), 659.


Fernandez C, et al. (2023) Representational integration and differentiation in the human hippocampus following goal-directed navigation. eLife, 12.


Curtis MT, et al. (2023) Attentional M100 gain modulation localizes to auditory sensory cortex and is deficient in first-episode psychosis. Human brain mapping, 44(1), 218.

