Resource Summary Report

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FreeSurfer

RRID:SCR_001847
Type: Tool

Proper Citation

FreeSurfer (RRID:SCR_001847)

Resource Information

URL: http://surfer.nmr.mgh.harvard.edu/

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

Defining Citation: PMID:22248573

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

Funding: NCRR U24 RR021382;
NINDS R01 NS052585;
NCRR RR014075

Availability: Free, Available for download, Freely available

Resource Name: FreeSurfer

Resource ID: SCR_001847

Alternate IDs: nif-0000-00304

Alternate URLs: https://sources.debian.org/src/freesurfer/,
http://www.nitrc.org/projects/freesurfer,
http://surfer.nmr.mgh.harvard.edu/fswiki/DownloadAndInstall

License: FreeSurfer License

Record Creation Time: 20220129T080209+0000

Record Last Update: 20260801T190152+0000

Ratings and Alerts

No rating or validation information has been found for FreeSurfer.

No alerts have been found for FreeSurfer.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 11817 mentions in open access literature.

Listed below are recent publications. The full list is available at ASWG .

Qu S, et al. (2026) Advancing whole-brain BOLD functional MRI in humans at 10.5 T with motion-robust 3D echo-planar imaging, parallel transmission, and high-density radiofrequency receive coils. Magnetic resonance in medicine, 95(2), 1068.

Shu L, et al. (2026) White Matter Structural Network Dysfunction Mediates the Effect of Hypertension on Cognitive Decline in Parkinson Disease. The neurologist, 31(1), 6.

Bhaya-Grossman I, et al. (2026) Shared and language-specific phonological processing in the human temporal lobe. Nature, 649(8095), 140.

Rothe M, et al. (2026) Fast 3D UTE in vivo T1 and T 2 * $$ {\mathrm{T}}_2^{\ast } $$ mapping of fast relaxing knee tissues at 3 T. Magnetic resonance in medicine, 95(2), 693.

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

Cavendish BA, et al. (2026) Antidepressant effects of intermittent theta-burst stimulation are associated with lower baseline regional gray matter volumes and surface areas in prefrontal cortex. Journal of psychiatric research, 193, 179.

Hao Y, et al. (2025) Understanding depression in autism: the role of subjective perception and anterior cingulate cortex volume. Molecular autism, 16(1), 9.

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

Qiao X, et al. (2025) Exploring the neural mechanisms underlying cooperation and competition behavior: Insights from stereo-electroencephalography hyperscanning. iScience, 28(2), 111506.

Kahn AE, et al. (2025) Network structure influences the strength of learned neural representations. Nature communications, 16(1), 994.

Barnaveli I, et al. (2025) Hippocampal-entorhinal cognitive maps and cortical motor system represent action plans and their outcomes. Nature communications, 16(1), 4139.

Dennis NA, et al. (2025) The Otter and the Cleaver: Exploring the Neural Underpinnings of Unitization Using the Gestalt Principle of Proximity. Journal of cognitive neuroscience, 37(12), 2409.

Jung H, et al. (2025) Spacetop: A multimodal fMRI dataset unifying naturalistic processes with a rich array of experimental tasks. Scientific data, 12(1), 1465.

Kamps FS, et al. (2025) Representation of navigational affordances and ego-motion in the occipital place area. Imaging neuroscience (Cambridge, Mass.), 3.

Yee DM, et al. (2025) Neurocomputational mechanisms underlying the distinct motivational influences of reward and punishment on cognitive control. bioRxiv : the preprint server for biology.

Manelis A, et al. (2025) Visual Imagery and Spectrum Symptoms of Depression and Hypomania Differentially Modulate Brain Responses during Emotional Face Anticipation and Encoding. medRxiv : the preprint server for health sciences.

Xu W, et al. (2025) Neural signatures of automatic letter-speech sound integration in literate adults. Imaging neuroscience (Cambridge, Mass.), 3.

da Silva Castanheira J, et al. (2025) The lifespan evolution of individualized neurophysiological traits. Cell reports, 44(12), 116657.

Ayzenberg V, et al. (2025) An intrinsic hierarchical, retinotopic organization of visual pulvinar connectivity in the human neonate. Current biology : CB, 35(2), 300.

Zhu T, et al. (2025) Contractions in human cerebellar-cortical manifold structure underlie motor reinforcement learning. The Journal of neuroscience : the official journal of the Society for Neuroscience, 45(18).