

Resource Summary Report

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BrainImage Software

RRID:SCR_006139

Type: Tool

Proper Citation

BrainImage Software (RRID:SCR_006139)

Resource Information

URL: <http://cibsr.stanford.edu/tools/>

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Description: A multiplatform, highly modular image processing and visualization application which is under development by the Center for Interdisciplinary Brain Sciences Research. The goal of this project is provide a framework application for neuroimaging which facilitates the interchange of software tools developed by researchers.

BrainImageJava can: * Delineate ROIs in slices along X, Y, or Z axes, with 3D feedback in the other axes. * Create and display triangular mesh surfaces from MRI volumes. * Draw Surfaces-of-Interest (SOIs) in 3D, and edit them in a planar display. * Set Talairach grid on a volume, export an AC/PC stack, and measure the values within each grid unit. This 3D image processing and analysis program for the Apple Macintosh PowerPC is based on the public domain application, NIH Image. It includes interactive procedures for 3D MRI quantification including semi-automated procedures for removing non-brain tissues from images, fuzzy segmentation of tissue compartments, global or local parcellation (based on the Talairach atlas), region-growing, etc. The last version of the software included multiplatform capability, volume visualization and advanced image analysis tools.

Abbreviations: BrainImage

Synonyms: Brain Image, BrainImageJ, BrainImageJava

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

Keywords: mri, segmentation, visualization, volume, neuroimaging, analyze, anatomic, application, artifact removal, image display, java, labeling, macos, mesh generation, microsoft, modeling, magnetic resonance, quantification, region of interest, rendering, spatial transformation, three dimensional display, volume measurement, volumetric analysis, volumetric analysis, windows, platform

Funding: Human Brain Project

Availability: GNU General Public License

Resource Name: BrainImage Software

Resource ID: SCR_006139

Alternate IDs: nif-0000-00272

Old URLs: <http://spnl.stanford.edu/tools/brainimage.htm>

Record Creation Time: 20220129T080234+0000

Record Last Update: 20260801T042621+0000

Ratings and Alerts

No rating or validation information has been found for BrainImage Software.

No alerts have been found for BrainImage Software.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 8 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Demir-Lira ÖE, et al. (2021) Neurocognitive basis of deductive reasoning in children varies with parental education. Human brain mapping, 42(11), 3396.

Jd C, et al. (2018) Altered Anterior Insular Asymmetry in Pre-teen and Adolescent Youth with Autism Spectrum Disorder. Annals of behavioral neuroscience, 1(1), 24.

Acosta SA, et al. (2015) Intravenous Bone Marrow Stem Cell Grafts Preferentially Migrate to Spleen and Abrogate Chronic Inflammation in Stroke. Stroke, 46(9), 2616.

Tseng JC, et al. (2012) In Vivo Fluorescent Labeling of Tumor Cells with the HaloTag® Technology. Current chemical genomics, 6, 48.

Aye T, et al. (2011) The feasibility of detecting neuropsychologic and neuroanatomic effects of type 1 diabetes in young children. Diabetes care, 34(7), 1458.

Rasgon NL, et al. (2011) Insulin resistance and hippocampal volume in women at risk for Alzheimer's disease. Neurobiology of aging, 32(11), 1942.

Smith DM, et al. (2010) Arsenic trioxide induces a beclin-1-independent autophagic pathway via modulation of SnoN/SkiL expression in ovarian carcinoma cells. Cell death and differentiation, 17(12), 1867.

Schafer RJ, et al. (2009) Alterations in functional connectivity for language in prematurely born adolescents. *Brain : a journal of neurology*, 132(Pt 3), 661.