Resource Summary Report

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Segmentation of Hippocampus Subfields

RRID:SCR_005996
Type: Tool

Proper Citation

Segmentation of Hippocampus Subfields (RRID:SCR_005996)

Resource Information

URL: http://freesurfer.net/fswiki/HippocampalSubfieldSegmentation

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Description: A software package for automatic segmentation of hippocampal subfields in magnetic resonance imges. Given a pair of T1-weighted and T2-weighted images (the latter acquired using a protocol tuned for hippocampus imaging), ASHS will automatically label main subfields of the hippocampus, and some extra-hippocampal structures, using multi-atlas segmentation. The main method is described in the Yushkevich et al. 2011 Neuroimage paper (http://tinyurl.com/cffrp3p). * execution requires: Advanced Normalization Tools, FSL

Abbreviations: ASHS

Synonyms: Automatic Segmentation of Hippocampal Subfields, HippocampalSubfieldSegmentation

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

Defining Citation: PMID:19405131, PMID:20600984

Keywords: hippocampus, mri, t1-weighted image, t2-weighted image, ca1, ca2, ca3, statistical modeling, magnetic resonance

Funding:

Availability: GNU General Public License

Resource Name: Segmentation of Hippocampus Subfields

Resource ID: SCR_005996

Alternate IDs: nlx_151370

Alternate URLs: http://www.nitrc.org/projects/ashs

Record Creation Time: 20220129T080233+0000

Record Last Update: 20250523T054510+0000

Ratings and Alerts

No rating or validation information has been found for Segmentation of Hippocampus Subfields.

No alerts have been found for Segmentation of Hippocampus Subfields.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 4 mentions in open access literature.

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

Cha J, et al. (2017) The Effects of Obstructive Sleep Apnea Syndrome on the Dentate Gyrus and Learning and Memory in Children. The Journal of neuroscience : the official journal of the Society for Neuroscience, 37(16), 4280.

Giuliano A, et al. (2017) Hippocampal subfields at ultra high field MRI: An overview of segmentation and measurement methods. Hippocampus, 27(5), 481.

Xiao X, et al. (2017) Transformed Neural Pattern Reinstatement during Episodic Memory Retrieval. The Journal of neuroscience : the official journal of the Society for Neuroscience, 37(11), 2986.

Sone D, et al. (2016) Automated subfield volumetric analysis of hippocampus in temporal lobe epilepsy using high-resolution T2-weighed MR imaging. NeuroImage. Clinical, 12, 57.