Resource Summary Report

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Human Brain Atlas

RRID:SCR_006131
Type: Tool

Proper Citation

Human Brain Atlas (RRID:SCR_006131)

Resource Information

URL: https://www.msu.edu/~brains/brains/human/index.html

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Description: A labeled three-dimensional atlas of the human brain created from MRI images. In conjunction are presented anatomically labeled stained sections that correspond to the three-dimensional MRI images. The stained sections are from a different brain than the one which was scanned for the MRI images. Also available the major anatomical features of the human hypothalamus, axial sections stained for cell bodies or for nerve fibers, at six rostro-caudal levels of the human brain stem; images and Quicktime movies. The MRI subject was a 22-year-old adult male. Differing techniques used to study the anatomy of the human brain all have their advantages and disadvantages. Magnetic resonance imaging (MRI) allows for the three-dimensional viewing of the brain and structures, precise spatial relationships and some differentiation between types of tissue, however, the image resolution is somewhat limited. Stained sections, on the other hand, offer excellent resolution and the ability to see individual nuclei (cell stain) or fiber tracts (myelin stain), however, there are often spatial distortions inherent in the staining process. The nomenclature used is from Paxinos G, and Watson C. 1998. The Rat Brain in Stereotaxic Coordinates, 4th ed. Academic Press. San Diego, CA. 256 pp

Abbreviations: Human Brain Atlas

Synonyms: MSU Brain Biodiversity Bank - Human Brain Atlas, Michigan State University Brain Biodiversity Bank - Human Brain Atlas

Resource Type: data or information resource, video resource, atlas

Keywords: human, adult, mri, fiber stain, anatomy, normal, neuroanatomy, nissl stain, image, brainstem, cell body, nerve fiber, brain, coronal, sagittal, horizontal, 3d model,

montage, weil, hypothalamus

Funding: NSF IBN 0131267;
NSF 0131826;
NSF 0131028

Availability: Copyrighted, Public, Request that you secure their permission, Acknowledgement required

Resource Name: Human Brain Atlas

Resource ID: SCR_006131

Alternate IDs: nif-0000-00088

Record Creation Time: 20220129T080234+0000

Record Last Update: 20250516T053815+0000

Ratings and Alerts

No rating or validation information has been found for Human Brain Atlas.

No alerts have been found for Human Brain Atlas.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3 mentions in open access literature.

Listed below are recent publications. The full list is available at FDI Lab - SciCrunch.org.

Bédard P, et al. (2014) Brain representations for acquiring and recalling visual-motor adaptations. NeuroImage, 101, 225.

Seger CA, et al. (2013) The visual corticostriatal loop through the tail of the caudate: circuitry and function. Frontiers in systems neuroscience, 7, 104.

Bédard P, et al. (2009) On a basal ganglia role in learning and rehearsing visual-motor associations. NeuroImage, 47(4), 1701.