

Resource Summary Report

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Neuroanatomy Atlas

RRID:SCR_002402

Type: Tool

Proper Citation

Neuroanatomy Atlas (RRID:SCR_002402)

Resource Information

URL: <http://www.cabiatl.com/mricro/anatomy/home.html>

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Description: Annotated magnetic resonance brain images, both slices and surface views, normalized to Talairach space, along with annotations and a nice tutorial on image normalization. A viewer for MRI images (MRicro) is available and is described in a separate entry. Series of coronal, axial and sagittal brain slices along with some rendered volumes with major brain structures delineated. Slices are presented as static series with partial overlap of slices, so they are not suitable for 3d reconstruction. This neuroanatomy atlas shows regions on normalized MRI scans. Normalization is the process of warping a brain to match a standard size, orientation and shape of other brains. You can normalize MRI scans using programs like AIR, FLIRT or SPM. Once normalized, the overall shape of your MRI scan will approximately match those in this atlas. However, normalization preserves the unique sulcal features of each brain, so there will be some variation between your image and the images shown in this atlas. There is a great deal of individual variability even after normalization, so any atlas is only a rough guide to the shape and location of structures in an individuals brain. As I have noted before, secondary and tertiary sulci are not found in all individuals (Ono et al. 1990, Atlas of Cerebral Sulci). Another benefit of normalizing brains is it makes it easy to complete an accurate "scalp stripping" with brain extracting software (my MRicro software implements Steve Smith's BET for this task). You can then create a useful volume rendering of the cortical surface. Typically, it is much easier to identify cortical sulci and gyri by looking at a rendered image of the brain's surface. This atlas shows you how to recognize these landmarks on a rendered MRI scan.

Abbreviations: Neuroanatomy Atlas

Resource Type: atlas, data or information resource

Keywords: magnetic resonance imaging, neuroanatomy, brain

Availability: Free, Available for download, Freely available

Resource Name: Neuroanatomy Atlas

Resource ID: SCR_002402

Alternate IDs: nif-0000-00121

Record Creation Time: 20220129T080213+0000

Record Last Update: 20260805T044039+0000

Ratings and Alerts

No rating or validation information has been found for Neuroanatomy Atlas.

No alerts have been found for Neuroanatomy Atlas.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.