Resource Summary Report

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DTI White Matter Atlas

RRID:SCR_005279
Type: Tool

Proper Citation

DTI White Matter Atlas (RRID:SCR_005279)

Resource Information

URL: http://cmrm.med.jhmi.edu/cmrm/atlas/human_data/file/JHUtemplate_newuser.html

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Description: DTI white matter atlases with different data sources and different image processing. These include single-subject, group-averaged, B0 correction, processed atlases (White Matter Parcellation Map, Tract-probability maps, Conceptual difference between the WMPM and tract-probability maps), and linear or non-linear transformation for automated white matter segmentation. # Adam single-subject white matter atlas (old version): These are electronic versions of atlases published in Wakana et al, Radiology, 230, 77-87 (2004) and MRI Atlas of Human White Matter, Elsevier. ## Original Adam Atlas: 256 x 256 x 55 (FOV = 246 x 246 mm / 2.2 mm slices) (The original matrix is 96x96x55 (2.2 mm isotropic) which is zerofilled to 256 x 256 ## Re-sliced Adam Atlas: 246 x 246 x 121 (1 mm isotropic) ## Talairach Adam: 246 x 246 x 121 (1 mm isotropic) # New Eve single-subject white matter atlas: The new version of the single-subject white matter atlas with comprehensive white matter parcellation. ## MNI coordinate: 181 x 217 x 181 (1 mm isotropic) ## Talairach coordinate: 181 x 217 x 181 (1 mm isotropic) # Group-averaged atlases: This atlas was created from their normal DTI database (n = 28). The template was MNI-ICBM-152 and the data from the normal subjects were normalized by affine transformation. Image dimensions are 181x217x181, 1 mm isotropic. There are two types of maps. The first one is the averaged tensor map and the second one is probabilistic maps of 11 white matter tracts reconstructed by FACT. # ICBM Group-averaged atlases: This atlas was created from ICBM database. All templates follow Radiology convention. You may need to flip right and left when you use image registration software that follows the Neurology convention.

Abbreviations: DTI White Matter Atlas

Resource Type: data or information resource, atlas

Keywords: white matter, brain, template, human, magnetic resonance imaging, diffusion tensor imaging, adult human, male, female, cerebellum, mni, talairach

Related Condition: Normal

Funding: NCRR P41RR015241

Availability: Account required

Resource Name: DTI White Matter Atlas

Resource ID: SCR_005279

Alternate IDs: nlx_144313

Record Creation Time: 20220129T080229+0000

Record Last Update: 20250507T060308+0000

Ratings and Alerts

No rating or validation information has been found for DTI White Matter Atlas.

No alerts have been found for DTI White Matter Atlas.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We have not found any literature mentions for this resource.