Resource Summary Report

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3D DTI Atlas of the Rat Brain In Postnatal Day 5 14 and Adulthood

RRID:SCR 009437

Type: Tool

Proper Citation

3D DTI Atlas of the Rat Brain In Postnatal Day 5 14 and Adulthood (RRID:SCR_009437)

Resource Information

URL: http://www.nitrc.org/projects/dti_rat_atlas/

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Description: 3D DTI anatomical rat brain atlases have been created by the UNC- Chapel Hill Department of Psychiatry and the CAMID research collaboration. There are three age groups, postnatal day 5, postnatal day 14, and postnatal day 72. The subjects were Sprague-Dawley rats that were controls in a study on cocaine abuse and development. The P5 and P14 templates were made from scans of twenty rats each (ten female, ten male); the P72, from six females. The individual cases have been resampled to isotropic resolution, manually skull-stripped, and deformably registered via an unbiased atlas building method to create a template for each age group. Each template was then manually segmented using itk-SNAP software. Each atlas is made up of 3 files, a template image, a segmentation, and a label file.

Abbreviations: 3D DTI Atlas of the Rat Brain

Synonyms: 3-Dimensional Diffusion Tensor Imaging (DTI) Atlas of the Rat Brain In Postnatal Day 5 14 and Adulthood

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

Keywords: magnetic resonance, adult rat, newborn rat, infant rat, young rat, sprague

dawley, male, female

Related Condition: Control, Normal

Funding: UNC Neurodevelopment Disorders Research Center;

NICHD HD 03110; NINDS R41 NS059095; NIDA IP01DA022446-02

Resource Name: 3D DTI Atlas of the Rat Brain In Postnatal Day 5 14 and Adulthood

Resource ID: SCR_009437

Alternate IDs: nlx_155577

Record Creation Time: 20220129T080252+0000

Record Last Update: 20250523T054735+0000

Ratings and Alerts

No rating or validation information has been found for 3D DTI Atlas of the Rat Brain In Postnatal Day 5 14 and Adulthood.

No alerts have been found for 3D DTI Atlas of the Rat Brain In Postnatal Day 5 14 and Adulthood.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 2 mentions in open access literature.

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

Oguz I, et al. (2014) RATS: Rapid Automatic Tissue Segmentation in rodent brain MRI. Journal of neuroscience methods, 221, 175.

Rumple A, et al. (2013) 3-dimensional diffusion tensor imaging (DTI) atlas of the rat brain. PloS one, 8(7), e67334.