

Resource Summary Report

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TRACULA

RRID:SCR_013152

Type: Tool

Proper Citation

TRACULA (RRID:SCR_013152)

Resource Information

URL: <http://surfer.nmr.mgh.harvard.edu/fswiki/Tracula>

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Description: Software tool developed for automatically reconstructing a set of major white matter pathways in the brain from diffusion weighted images using probabilistic tractography. This method utilizes prior information on the anatomy of the pathways from a set of training subjects. By incorporating this prior knowledge in the reconstruction procedure, our method obviates the need for manual intervention with the tract solutions at a later stage and thus facilitates the application of tractography to large studies. The trac-all script is used to preprocess raw diffusion data (correcting for eddy current distortion and B0 field inhomogeneities), register them to common spaces, model and reconstruct major white matter pathways (included in the atlas) without any manual intervention. trac-all may be used to execute all the above steps or parts of it depending on the dataset and user's preference for analyzing diffusion data. Alternatively, scripts exist to execute chunks of each processing pipeline, and individual commands may be run to execute a single processing step. To explore all the options in running trac-all please refer to the trac-all wiki. In order to use this script to reconstruct tracts in Diffusion images, all the subjects in the dataset must have Freesurfer Recons.

Abbreviations: TRACULA

Synonyms: TRACULA - TRActs Constrained by UnderLying Anatomy, TRACULA: TRActs Constrained by UnderLying Anatomy, TRActs Constrained by UnderLying Anatomy

Resource Type: data processing software, software application, software resource

Defining Citation: [PMID:22016733](#)

Keywords: tractography, white matter tract, white matter pathway, diffusion weighted image, diffusion magnetic resonance imaging, white matter, brain, reconstruct, diffusion tensor imaging

Related Condition: Aging

Funding: NIH Blueprint for Neuroscience Research ;
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NIMH U01-MH093765;
NCRR P41-RR14075;
NCRR U24-RR021382;
NIBIB R01-EB006758;
NIA R01-AG022381;
National Center for Complementary and Alternative Medicine RC1-AT005728;
NINDS R01-NS052585;
NINDS R21-NS072652;
NINDS R01-NS070963

Resource Name: TRACULA

Resource ID: SCR_013152

Alternate IDs: nlx_143919

Record Creation Time: 20220129T080314+0000

Record Last Update: 20261017T203305+0000

Ratings and Alerts

No rating or validation information has been found for TRACULA.

No alerts have been found for TRACULA.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We have not found any literature mentions for this resource.