Resource Summary Report

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Diffusion Toolkit

RRID:SCR_017345
Type: Tool

Proper Citation

Diffusion Toolkit (RRID:SCR_017345)

Resource Information

URL: http://trackvis.org/dtk/

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Description: Software as set of commandline tools with GUI frontend that performs data reconstruction and fiber tracking on diffusion MR images. It does preparation work for TrackVis. Software Package for diffusion imaging data processing and tractography.

Abbreviations: DTK

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

Keywords: data, reconstruction, fiber, tracking, diffusion, MR, image, processing, tractography

Funding:

Availability: Restricted

Resource Name: Diffusion Toolkit

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Alternate URLs: https://cds.ismrm.org/ismrm-2007/files/03720.pdf, https://www.nitrc.org/projects/trackvis/

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Ratings and Alerts

No rating or validation information has been found for Diffusion Toolkit.

No alerts have been found for Diffusion Toolkit.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 54 mentions in open access literature.

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

Zhang H, et al. (2024) The structural-functional-connectivity coupling of the aging brain. GeroScience, 46(4), 3875.

Li J, et al. (2024) Network efficiency of functional brain connectomes altered in type 2 diabetes patients with and without mild cognitive impairment. Diabetology & metabolic syndrome, 16(1), 247.

Huang W, et al. (2024) DCP: A pipeline toolbox for diffusion connectome. Human brain mapping, 45(3), e26626.

Mei Y, et al. (2024) Disrupted topologic efficiency of white matter structural connectome in migraine: a graph-based connectomics study. The journal of headache and pain, 25(1), 204.

Gao M, et al. (2024) A Histopathologic Correlation Study Evaluating Glymphatic Function in Brain Tumors by Multiparametric MRI. Clinical cancer research : an official journal of the American Association for Cancer Research, 30(21), 4876.

Chen X, et al. (2024) Transcutaneous auricular vagus nerve stimulation for long-term post-stroke cognitive impairment: a DTI case report. Frontiers in human neuroscience, 18, 1473535.

Liu S, et al. (2023) Neural mechanism underlying the beneficial effect of Theory of Mind psychotherapy on early-onset schizophrenia: a randomized controlled trial. Journal of psychiatry & neuroscience : JPN, 48(6), E421.

Lyons-Ruth K, et al. (2023) Negative versus withdrawn maternal behavior: Differential associations with infant gray and white matter during the first 2?years of life. Human brain mapping, 44(12), 4572.

Jung WH, et al. (2023) White matter-based brain network topological properties associated with individual impulsivity. Scientific reports, 13(1), 22173.

Coronel-Oliveros C, et al. (2023) Gaming expertise induces meso-scale brain plasticity and efficiency mechanisms as revealed by whole-brain modeling Gaming expertise, neuroplasticity and functional dynamics. bioRxiv : the preprint server for biology.

Feng G, et al. (2023) Longitudinal development of the human white matter structural connectome and its association with brain transcriptomic and cellular architecture. Communications biology, 6(1), 1257.

Casciaro C, et al. (2023) Glucocorticoid exposure modifies the miRNA profile of sperm in the guinea pig: Implications for intergenerational transmission. FASEB journal : official publication of the Federation of American Societies for Experimental Biology, 37(4), e22879.

Zhang P, et al. (2022) Rich-club reorganization and related network disruptions are associated with the symptoms and severity in classic trigeminal neuralgia patients. NeuroImage. Clinical, 36, 103160.

Lai HM, et al. (2022) Antibody stabilization for thermally accelerated deep immunostaining. Nature methods, 19(9), 1137.

Liu XW, et al. (2022) Cerebral corridor creator for resection of trigone ventricular tumors: Two case reports. World journal of clinical cases, 10(6), 1914.

Liu T, et al. (2022) Neural dissociation of visual attention span and phonological deficits in developmental dyslexia: A hub-based white matter network analysis. Human brain mapping, 43(17), 5210.

Feng G, et al. (2022) Methodological evaluation of individual cognitive prediction based on the brain white matter structural connectome. Human brain mapping, 43(12), 3775.

Bi Q, et al. (2021) Relationship between the disrupted topological efficiency of the structural brain connectome and glucose hypometabolism in normal aging. NeuroImage, 226, 117591.

Zhang J, et al. (2021) Abnormal large-scale structural rich club organization in Leber's hereditary optic neuropathy. NeuroImage. Clinical, 30, 102619.

Zhang Y, et al. (2021) Functional and structural connective disturbance of the primary and default network in patients with generalized tonic-clonic seizures. Epilepsy research, 174, 106595.