

Resource Summary Report

Generated by [Kravitz](#) on Sep 17, 2026

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 analysis software, data processing software, software application, software resource

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

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/>

Record Creation Time: 20220129T080334+0000

Record Last Update: 20260912T195851+0000

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 67 mentions in open access literature.

Listed below are recent publications. The full list is available at [Kravitz](#) .

Hou C, et al. (2026) Impaired connectivity between the thalamus and the visual pathway in schizophrenia: a multimodal magnetic resonance imaging study. *Psychoradiology*, 6, kkg008.

Sudaryo V, et al. (2026) Activation-induced SLC7A1 expression enhances T cell sensitivity to cGAMP-mediated STING signaling. *Cell reports*, 45(7), 117580.

Zhang X, et al. (2025) White Matter Networks of Phonological Awareness in Chinese Readers. *Brain and behavior*, 15(9), e70781.

Liu X, et al. (2025) Brain Network Controllability and Its Regional Gene Expression Profile Associated With Suicidal Tendencies in Major Depressive Disorder Patients. *Depression and anxiety*, 2025, 6529148.

Shao W, et al. (2025) Association between diffusion tensor imaging analysis along the perivascular space (DTI-ALPS)-based glial-lymphatic dysfunction and cognitive impairment in non-small cell lung cancer. *American journal of translational research*, 17(12), 9705.

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.

Feng F, et al. (2024) Different patterns of structural network impairments in two amyotrophic lateral sclerosis subtypes driven by 18F-fluorodeoxyglucose positron emission tomography/magnetic resonance hybrid imaging. *Brain communications*, 6(5), fcae222.

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.

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.

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.

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.

Chen J, et al. (2022) Potential biomarkers for distinguishing primary from acquired premature ejaculation: A diffusion tensor imaging based network study. *Frontiers in neuroscience*, 16, 929567.