

Resource Summary Report

Generated by T1D on Jul 29, 2026

MRtrix3

RRID:SCR_024123

Type: Tool

Proper Citation

MRtrix3 (RRID:SCR_024123)

Resource Information

URL: <https://www.mrtrix.org/>

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Description: Software tools to perform various types of diffusion MRI analyses, from various forms of tractography through to next-generation group-level analyses.

Synonyms: mrtrix3

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

Defining Citation: [PMID:31473352](https://pubmed.ncbi.nlm.nih.gov/31473352/)

Keywords: diffusion MRI analyses, tractography, next generation group level analyses,

Availability: Free, Available for download, Freely available,

Resource Name: MRtrix3

Resource ID: SCR_024123

Alternate URLs: <https://sources.debian.org/src/mrtrix3/>

Record Creation Time: 20230824T050212+0000

Record Last Update: 20260729T044602+0000

Ratings and Alerts

No rating or validation information has been found for MRtrix3.

No alerts have been found for MRtrix3.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 185 mentions in open access literature.

Listed below are recent publications. The full list is available at [T1D](#).

Bullens K, et al. (2026) Altered structural networks and cognitive functioning in long-term survivors of pediatric brain tumors. *Neuroimage. Reports*, 6(1), 100307.

Casanova-Pagola J, et al. (2026) Early-life cognitive intervention preserves brain function in aged TgF344-AD rats with sex-specific effects. *iScience*, 29(1), 114381.

Huang S, et al. (2025) Mutation in the rat interleukin 34 gene impacts macrophage development, homeostasis, and inflammation. *Life science alliance*, 8(9).

Mahemuti Z, et al. (2025) White Matter Microstructure Alterations in Older Adults With Dyslipidemia Associated With Cognitive and Locomotor Dysfunction Evaluated Using Neurite Orientation Dispersion and Density Imaging. *Brain and behavior*, 15(6), e70526.

Farahani A, et al. (2025) Network spreading and local biological vulnerability in amyotrophic lateral sclerosis. *Communications biology*, 8(1), 1153.

Gerussi T, et al. (2025) Interstellar encounter: Postmortem imaging and virtopsy on a preserved anencephalic Indo-Pacific bottlenose dolphin specimen after 30 years. *BMC veterinary research*, 21(1), 189.

Wen X, et al. (2025) Early corticospinal tract sub-pathway lesion load and integrity predict post-stroke motor outcomes. *Frontiers in human neuroscience*, 19, 1598598.

Pareto D, et al. (2025) Image analysis research in neuroradiology: bridging clinical and technical domains. *Neuroradiology*, 67(7), 1649.

Becker Y, et al. (2025) Long arcuate fascicle in wild and captive chimpanzees as a potential structural precursor of the language network. *Nature communications*, 16(1), 4485.

Ouchi K, et al. (2025) Age-related alterations in functional and structural networks in the brain in macaque monkeys. *Frontiers in neuroanatomy*, 19, 1495735.

Ruan J, et al. (2025) Connectional differences between humans and macaques in the MT+ complex. *iScience*, 28(1), 111617.

Oura T, et al. (2025) Unchanged Early Diffusion Tensor Imaging Along Perivascular Space Index After Amyloid-Targeting Disease-Modifying Therapy in Alzheimer's Disease: A Preliminary Study. *Journal of magnetic resonance imaging : JMIR*, 62(6), 1892.

Caillierez R, et al. (2025) Anti-tau VHH therapy against PHF6: a safe approach to slowing the phenotype of tau pathology. *Alzheimer's research & therapy*, 17(1), 221.

Goodwin I, et al. (2025) Psychotic-Like Experiences and White Matter Microstructure: A Fixel-Based Analysis Approach With Robust Replication Across Two Cohorts. *Human brain mapping*, 46(17), e70414.

Zheng L, et al. (2025) Newly trained navigation and verbal memory skills in humans elicit changes in task-related networks but not brain structure. *eLife*, 14.

Vadinova V, et al. (2025) Early subacute frontal callosal microstructure and language outcomes after stroke. *Brain communications*, 7(1), fcae370.

Hu HY, et al. (2025) Microstructural white matter injury contributes to cognitive decline: Besides amyloid and tau. *The journal of prevention of Alzheimer's disease*, 12(2), 100037.

Ye X, et al. (2025) Accelerated multi-shell diffusion MRI with Gaussian process estimated reconstruction of multi-band imaging. *Magnetic resonance in medicine*, 94(2), 694.

Loução R, et al. (2025) Structural Connectivity of the Basal Ganglia from Patient-Individual Tractography Is Key for Understanding the Effects of Deep Brain Stimulation in Parkinson's Disease. *Stereotactic and functional neurosurgery*, 103(4), 279.

Debiasi G, et al. (2025) Magnetic susceptibility properties of tumor-associated cells imaged by MRI reveal glioblastoma infiltration in the edema region. *Communications medicine*, 5(1), 487.