

Resource Summary Report

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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](#)

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 [PRECISE-TBI](#) .

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.

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.

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

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

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

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

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.

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.

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.

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.

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 : JMRI, 62(6), 1892.

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.

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.

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

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.

Wang Z, et al. (2025) Along-Tract Diffusion Alterations in the Dentato-Rubro-Thalamic Tract Correlate With Motor and Cognitive Decline in Huntington's Disease. Human brain mapping, 46(11), e70305.

Wang Y, et al. (2025) Precise MRI-Histology Coregistration of Paraffin-Embedded Tissue with Blockface Imaging. bioRxiv : the preprint server for biology.