

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

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: 20260905T133029+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 335 mentions in open access literature.

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

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.

Xie B, et al. (2026) Peripheral inflammation impairs glymphatic function, contributing to neurodegeneration in Alzheimer's disease. *iScience*, 29(7), 116581.

Borges RL, et al. (2026) Unbalanced chromatin binding of Polycomb complexes drives neurodevelopmental disorders. *Molecular cell*, 86(4), 604.

Busby N, et al. (2026) Digital Twin Model of Treatment Outcomes in Post-Stroke Aphasia. *medRxiv : the preprint server for health sciences*.

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

Chow BVY, et al. (2026) Architecture of lower leg muscles in children: Reference curves and potential mechanisms of growth. *Journal of anatomy*, 249(1), 54.

Giudicessi A, et al. (2026) Sex differences in diffusion-weighted imaging outcomes in autosomal dominant Alzheimer's disease. *Brain communications*, 8(2), fcag081.

Jeong JW, et al. (2026) Classification of neurocognitive impairment in pediatric drug-resistant focal epilepsy by quantifying seizure-affected brain network abnormalities in clinical diffusion-weighted imaging connectome. *Clinical and experimental pediatrics*, 69(5), 443.

Bramati I, et al. (2026) Diffusion MRI sampling schemes bias diffusion metrics and tractography. *Frontiers in neuroimaging*, 5, 1670604.

Liu W, et al. (2026) Functional and structural connectivity of thalamic subnuclei in major depressive disorder at 7???Tesla. *Psychiatry and clinical neurosciences*, 80(6), 477.

Ali S, et al. (2026) A systematic study on the integration of MRI connectivity metrics for Alzheimer's diagnosis, staging, and cognitive decline prediction. *Frontiers in neuroimaging*, 5, 1746464.

Farahani A, et al. (2026) Structure-function coupling in the human brainstem. *bioRxiv : the preprint server for biology*.

Sanchez-Martinez J, et al. (2026) Effects of a 24-week resistance exercise program on Alzheimer's disease brain signatures in cognitively unimpaired older adults: a secondary

analysis of the AGUEDA randomized controlled trial. Age and ageing, 55(4).

van der Meijden MEM, et al. (2026) Intraoperative sodium range affects white matter microstructure in neonatal congenital heart disease. International journal of cardiology. Congenital heart disease, 24, 100666.

Li LL, et al. (2026) Moderating role of executive function in the relationship between specific white matter changes and long-term delayed recall in aMCI patients. Alzheimer's research & therapy, 18(1).

Caiani G, et al. (2026) In silico exploration of electric field distribution in tDCS: integrating white matter anisotropy and subject-specific structural connectivity. Frontiers in neuroscience, 20, 1749851.

Mizuguchi N, et al. (2026) Functional-Structural Plasticity Associated With the Duration of Sports Participation in Lower Limb Amputees: A Multimodal Neuroimaging Study. Neural plasticity, 2026(1), e8819722.

Huang M, et al. (2026) Altered amygdala structural connectivity and relations to social cognition in frontotemporal dementia. Alzheimer's & dementia : the journal of the Alzheimer's Association, 22(5), e71482.

Sun Q, et al. (2026) Associations of local white matter geometry with network efficiency, macrostructural abnormalities, and clinical severity in behavioural variant frontotemporal dementia. Brain communications, 8(3), fcag226.

Thapaliya K, et al. (2026) Disrupted glymphatic function and its relationship with sleep and cognitive impairment in ME/CFS assessed via DTI-ALPS. Frontiers in neuroscience, 20, 1875420.