

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 processing software, data analysis 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: 20260820T055022+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 [NIF](#) .

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.

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.

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.

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.

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

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.

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).

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).

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

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.

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

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.

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

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.

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.

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

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.

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.