

Resource Summary Report

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ENIGMA-DTI Pipeline

RRID:SCR_014649

Type: Tool

Proper Citation

ENIGMA-DTI Pipeline (RRID:SCR_014649)

Resource Information

URL: <http://enigma.ini.usc.edu/protocols/dti-protocols/>

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Description: Pipeline which provides tools to extract whole-brain average and regional measurements from DTI images including FA, AD, RD and MD. Protocols for preprocessing, ENIGMA-DTI processing (skeletonization and ROI extraction), and GWAS analysis are available. Software tools used for each process are listed within the protocols.

Synonyms: ENIGMA-DTI protocol, ENIGMA DTI pipeline, ENIGMA DTI protocol

Resource Type: protocol

Keywords: dti, enigma, protocol, pipeline

Funding: NIBIB U54 EB020403

Availability: Available for download from NITRC

Resource Name: ENIGMA-DTI Pipeline

Resource ID: SCR_014649

Alternate URLs: http://www.nitrc.org/projects/enigma_dti

Record Creation Time: 20220129T080321+0000

Record Last Update: 20260725T190807+0000

Ratings and Alerts

No rating or validation information has been found for ENIGMA-DTI Pipeline.

No alerts have been found for ENIGMA-DTI Pipeline.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 47 mentions in open access literature.

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

Kim GS, et al. (2025) Mapping Along-Tract White Matter Microstructural Differences in Autism. bioRxiv : the preprint server for biology.

van Velzen LS, et al. (2025) Transdiagnostic alterations in white matter microstructure associated with suicidal thoughts and behaviours in the ENIGMA Suicidal Thoughts and Behaviours consortium. Translational psychiatry, 15(1), 429.

Alagöz G, et al. (2025) The shared genetic architecture and evolution of human language and musical rhythm. Nature human behaviour, 9(2), 376.

Tianyi L, et al. (2025) Childhood adversity is associated with longitudinal white matter changes after adulthood trauma. medRxiv : the preprint server for health sciences.

Kim GS, et al. (2025) Mapping along-tract commissural and association white matter microstructural differences in autistic children and young adults. Cerebral cortex (New York, N.Y. : 1991), 35(11).

Feng L, et al. (2025) Adherence to life's essential 8 is associated with delayed white matter aging. EBioMedicine, 115, 105723.

Jiang Z, et al. (2025) Computation and resource efficient genome-wide association analysis for large-scale imaging studies. medRxiv : the preprint server for health sciences.

Benavidez SM, et al. (2024) Sex Differences in the Brain's White Matter Microstructure during Development assessed using Advanced Diffusion MRI Models. bioRxiv : the preprint server for biology.

Wu J, et al. (2024) The integrity of the corticospinal tract and corpus callosum, and the risk of ALS: univariable and multivariable Mendelian randomization. Scientific reports, 14(1), 17216.

Koshiyama D, et al. (2024) Cortical white matter microstructural alterations underlying the impaired gamma-band auditory steady-state response in schizophrenia. Schizophrenia (Heidelberg, Germany), 10(1), 32.

Donohue B, et al. (2024) Accelerating Heritability, Genetic Correlation, and Genome-Wide Association Imaging Genetic Analyses in Complex Pedigrees. Human brain mapping, 45(17), e70044.

Kim BG, et al. (2024) White matter diffusion estimates in obsessive-compulsive disorder across 1653 individuals: machine learning findings from the ENIGMA OCD Working

Group. *Molecular psychiatry*, 29(4), 1063.

van Velzen LS, et al. (2024) Transdiagnostic alterations in white matter microstructure associated with suicidal thoughts and behaviours in the ENIGMA Suicidal Thoughts and Behaviours consortium. *medRxiv : the preprint server for health sciences*.

Wong SA, et al. (2023) Internal capsule microstructure mediates the relationship between childhood maltreatment and PTSD following adulthood trauma exposure. *Molecular psychiatry*, 28(12), 5140.

Dennis EL, et al. (2023) Altered lateralization of the cingulum in deployment-related traumatic brain injury: An ENIGMA military-relevant brain injury study. *Human brain mapping*, 44(5), 1888.

Carreira Figueiredo I, et al. (2022) White-matter free-water diffusion MRI in schizophrenia: a systematic review and meta-analysis. *Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology*, 47(7), 1413.

Comai S, et al. (2022) Selective association of cytokine levels and kynurenine/tryptophan ratio with alterations in white matter microstructure in bipolar but not in unipolar depression. *European neuropsychopharmacology : the journal of the European College of Neuropsychopharmacology*, 55, 96.

Harnett NG, et al. (2022) Structural covariance of the ventral visual stream predicts posttraumatic intrusion and nightmare symptoms: a multivariate data fusion analysis. *Translational psychiatry*, 12(1), 321.

Liew SL, et al. (2022) The ENIGMA Stroke Recovery Working Group: Big data neuroimaging to study brain-behavior relationships after stroke. *Human brain mapping*, 43(1), 129.

Ottino-González J, et al. (2022) White matter microstructure differences in individuals with dependence on cocaine, methamphetamine, and nicotine: Findings from the ENIGMA-Addiction working group. *Drug and alcohol dependence*, 230, 109185.