Resource Summary Report

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HCP Pipelines

RRID:SCR_026575
Type: Tool

Proper Citation

HCP Pipelines (RRID:SCR_026575)

Resource Information

URL: https://github.com/Washington-University/HCPpipelines

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Description: Software package as set of tools, primarily shell scripts, for processing multi-modal, high-quality MRI images for the Human Connectome Project. Minimal preprocessing pipelines for structural, functional, and diffusion MRI that were developed by the HCP to accomplish many low level tasks, including spatial artifact/distortion removal, surface generation, cross-modal registration, and alignment to standard space.

Synonyms: Human Connectome Project Pipelines

Resource Type: data processing software, image processing software, software application, software resource, software toolkit

Defining Citation: PMID:23668970

Keywords: Minimal preprocessing pipelines, Human Connectome Project, MRI images processing, MRI images,

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NIMH MH091657;
NIMH ROI MH60974;
NINDS R01 NS052585;
NINDS R01NS070963;
NINDS R21NS072652

Availability: Free, Available for download, Freely available

Resource Name: HCP Pipelines

Resource ID: SCR_026575

Alternate URLs: https://www.humanconnectome.org/software/hcp-mr-pipelines

License URLs: https://github.com/Washington-University/HCPpipelines?tab=License-1-ov-file#readme

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Ratings and Alerts

No rating or validation information has been found for HCP Pipelines.

No alerts have been found for HCP Pipelines.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 36 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Boen R, et al. (2026) Gene dosage effects of 22q11.2 copy number variants on in-vivo measures of white matter axonal density and dispersion. Molecular psychiatry, 31(7), 3687.

Demirci N, et al. (2026) Compensating cortical thickness for cortical folding-related variation. Imaging neuroscience (Cambridge, Mass.), 4.

Alberti F, et al. (2026) Intrinsic cortical geometry is associated with individual differences in local functional organization. Research square.

Manoli A, et al. (2026) Cerebellar growth is associated with domain-specific cerebral maturation and socio-linguistic behavior. Nature communications, 17(1).

Winter-Nelson E, et al. (2026) Correspondence of large-scale functional brain network decline across aging mice and humans. Proceedings of the National Academy of Sciences of the United States of America, 123(13), e2527522123.

Jord??nek T, et al. (2025) Accelerated Epigenetic Aging and Its Role in Brain Dynamics and Cognition in Young Adulthood. Human brain mapping, 46(10), e70261.

Leech R, et al. (2025) The spatial layout of antagonistic brain regions is explicable based on geometric principles. Communications biology, 8(1), 889.

Boen R, et al. (2025) Gene dosage effects of 22q11.2 copy number variants on in-vivo measures of white matter axonal density and dispersion. bioRxiv : the preprint server for biology.

Wang Z, et al. (2025) Multi-task machine learning reveals the functional neuroanatomy fingerprint of mental processing. bioRxiv : the preprint server for biology.

Wu H, et al. (2025) Brain Myelin Covariance Networks: Gradients, Cognition, and Higher-Order Landscape. Behavioral sciences (Basel, Switzerland), 15(11).

Roffet F, et al. (2025) Deep learning and whole-brain networks for biomarker discovery: modeling the dynamics of brain fluctuations in resting-state and cognitive tasks. Scientific reports, 15(1), 41005.

Kaya B, et al. (2025) Delineation of the trigeminal-lateral parabrachial-central amygdala tract in humans. Imaging neuroscience (Cambridge, Mass.), 3.

Li D, et al. (2025) Mapping the coupling between tract reachability and cortical geometry of the human brain. Nature communications, 16(1), 7489.

Li J, et al. (2025) Development of areal-level individualized homologous functional parcellations in youth. Communications biology, 8(1), 1083.

Vecchiato K, et al. (2025) Ultra-High Field 7T MRI in a Drug-Resistant Pediatric Epilepsy Cohort: Image Comparison and Radiologic Outcomes. Neurology, 105(5), e213921.

Christova P, et al. (2025) Brain volumes discriminate clinical dementia rating scale categories. Scientific reports, 15(1), 39852.

Wang Y, et al. (2025) Evolutionary Convergence of the Arcuate Fasciculus in Marmosets and Humans. bioRxiv : the preprint server for biology.

Wang Y, et al. (2025) The Chimpanzee Brainnetome Atlas reveals distinct connectivity and gene expression profiles relative to humans. Innovation (Cambridge (Mass.)), 6(2), 100755.

Wang S, et al. (2025) Diff5T: Benchmarking human brain diffusion MRI with an extensive 5.0 Tesla k-space and spatial dataset. Scientific data, 12(1), 1352.

Chopra S, et al. (2025) The Transdiagnostic Connectome Project: an open dataset for studying brain-behavior relationships in psychiatry. Scientific data, 12(1), 923.