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, software toolkit, software resource, software application, image processing software

Defining Citation: PMID:23668970

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

Funding: NIMH MH091657;
NIH Blueprint for Neuroscience Research ;
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NCRR U24 RR021382;
NIBIB R01EB006758;
NIA R01AG008122;
NINDS R01 NS052585;
NINDS R21NS072652;
NINDS R01NS070963

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 20 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

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

Tobyne SM, et al. (2025) Combined Auditory, Tactile, and Visual fMRI Reveals Sensory-Biased and Supramodal Working Memory Regions in Human Frontal Cortex. bioRxiv : the preprint server for biology.

Frigerio G, et al. (2025) Perivascular Space Burden in Children With Autism Spectrum Disorder Correlates With Neurodevelopmental Severity. Journal of magnetic resonance imaging : JMRI, 62(5), 1496.

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

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.

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

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

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.

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

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.

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

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

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.

Quinn BPA, et al. (2024) Idiosyncratic patterns of interhemispheric connectivity in the face and scene networks of the human brain. Imaging neuroscience (Cambridge, Mass.), 2.

Küppers V, et al. (2024) Consistent activation differences versus differences in consistent activation: Evaluating meta-analytic contrasts. Imaging neuroscience (Cambridge, Mass.), 2.

Kimura I, et al. (2024) Immediate effect of quadri-pulse stimulation on human brain microstructures and functions. Imaging neuroscience (Cambridge, Mass.), 2.

Williams JC, et al. (2024) Functional localization of the human auditory and visual thalamus using a thalamic localizer functional magnetic resonance imaging task. Imaging neuroscience (Cambridge, Mass.), 2.

Balderston NL, et al. (2022) Proof of concept study to develop a novel connectivity-based electric-field modelling approach for individualized targeting of transcranial magnetic stimulation treatment. Neuropsychopharmacology : official publication of the American College of Neuropsychopharmacology, 47(2), 588.