

Resource Summary Report

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MRIQC

RRID:SCR_022942

Type: Tool

Proper Citation

MRIQC (RRID:SCR_022942)

Resource Information

URL: <https://mriqc.readthedocs.io/en/latest/>

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Description: Software tool as quality assurance workflow for Brain Imaging Data Structure compliant anatomical and functional MRI datasets. Used to extract no-reference image quality metrics from structural and functional magnetic resonance imaging data.

Synonyms: Image Quality in MRI

Resource Type: data processing software, software application, software resource, workflow software

Defining Citation: [PMID:28945803](#)

Keywords: Image quality metrics, brain imaging data structure, quality assurance workflow, BIDS compliant, anatomical and functional MRI datasets, MRI datasets

Funding: Laura and John Arnold Foundation ;
Swiss National Science Foundation

Availability: Free, Available for download, Freely available

Resource Name: MRIQC

Resource ID: SCR_022942

Alternate URLs: <https://github.com/nipreps/mriqc>

License: Apache License 2.0

Record Creation Time: 20221103T050202+0000

Record Last Update: 20260829T182821+0000

Ratings and Alerts

No rating or validation information has been found for MRIQC.

No alerts have been found for MRIQC.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 26 mentions in open access literature.

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

Tian Y, et al. (2026) Intrinsic Functional Architecture Reflects Individual Differences in Passive Working Memory: An Exploratory Resting-State fMRI Study. Human brain mapping, 47(10), e70597.

Mi K, et al. (2026) An integrative multi-omics approach identifies microbiome alterations linked to pathological and behavioral features in autism spectrum disorder. Cell reports. Medicine, 7(3), 102655.

Huang Z, et al. (2026) An open fMRI resource for studying human brain function and covert consciousness under anesthesia. Scientific data, 13(1), 127.

Li Q, et al. (2026) Spatiotemporal dynamics of the human cortical functional hierarchy across the lifespan. Nature communications, 17(1).

Leipold S, et al. (2026) Inter-subject correlations and their behavioral associations vary across movies: Implications for generalizability. bioRxiv : the preprint server for biology.

Mirro AE, et al. (2026) Regional brain age is decreased in children with sickle cell anemia. Blood advances, 10(4), 1035.

Petrovskiy ED, et al. (2026) A dense longitudinal multimodal single-subject rs-fMRI dataset acquired by self-administered scanning. Scientific data, 13(1).

Dibble A, et al. (2026) NeuroFM: Toward Precision Neuroimaging with Foundation Models for Individualized Brain Health Estimation. medRxiv : the preprint server for health sciences.

Filimonova E, et al. (2026) Multimodal brain MRI and clinical data in olfactory groove meningioma: a prospective data report. Frontiers in radiology, 6, 1809871.

Filimonova E, et al. (2025) Reorganization of brain networks in olfactory groove meningioma patients: a pilot resting-state fMRI study. Frontiers in neurology, 16, 1644138.

Hall-McMaster S, et al. (2025) Neural evidence that humans reuse strategies to solve new tasks. PLoS biology, 23(6), e3003174.

Cabalo DG, et al. (2025) Multimodal precision MRI of the individual human brain at ultra-high fields. *Scientific data*, 12(1), 526.

Fan XR, et al. (2025) Profiling brain morphology for autism spectrum disorder with two cross-culture large-scale consortia. *Communications biology*, 8(1), 1157.

Filimonova E, et al. (2025) A large-scale dataset of pre- and postsurgical MRI data from patients with chronic trigeminal neuralgia. *Scientific data*, 12(1), 2024.

Li J, et al. (2025) Major depressive disorder on a neuromorphic continuum. *Nature communications*, 16(1), 2405.

Sun L, et al. (2025) Population-specific brain charts reveal Chinese-Western differences in neurodevelopmental trajectories. *bioRxiv : the preprint server for biology*.

Wang B, et al. (2025) A naturalistic fMRI dataset in response to public speaking. *Scientific data*, 12(1), 659.

Guo T, et al. (2025) An fMRI dataset for investigating language control and cognitive control in bilinguals. *Scientific data*, 12(1), 889.

Raoul L, et al. (2025) Analysis of Factors Affecting Quality in Structural Magnetic Resonance Images. *Human brain mapping*, 46(11), e70271.

Constant-Varlet C, et al. (2025) Familial transmission of neural representations for mental arithmetic across two generations. *Proceedings of the National Academy of Sciences of the United States of America*, 122(33), e2421528122.