

Resource Summary Report

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Brain Imaging Data Structure (BIDs)

RRID:SCR_016124

Type: Tool

Proper Citation

Brain Imaging Data Structure (BIDs) (RRID:SCR_016124)

Resource Information

URL: <http://bids.neuroimaging.io>

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Description: Standard specification for organizing and describing outputs of neuroimaging experiments. Used to organize and describe neuroimaging and behavioral data by neuroscientific community as standard to organize and share data. BIDS prescribes file naming conventions and folder structure to store data in set of already existing file formats. Provides standardized templates to store associated metadata in form of Javascript Object Notation (JSON) and tab-separated value (TSV) files. Facilitates data sharing, metadata querying, and enables automatic data analysis pipelines. System to curate, aggregate, and annotate neuroimaging databases. Intended for magnetic resonance imaging data, magnetoencephalography data, electroencephalography data, and intracranial encephalography data.

Abbreviations: BIDS

Synonyms: Brain Imaging Data Structure, BIDS, Brain Imaging Data Structure (BIDS), Brain Imaging Data Structure v1.4.0

Resource Type: narrative resource, data or information resource, portal, standard specification

Defining Citation: [PMID:27326542](#), [PMID:29917016](#), [PMID:31239435](#), [PMID:31239438](#), [PMID:37744469](#)

Keywords: Data storing structure, neuroimaging, standardized template, data sharing, MRI data, MEG data, EEG data, iEEG data, FASEB list

Funding: International Neuroinformatics Coordinating Facility ;

Laura and John Arnold Foundation ;
NIGMS P20 GM103472;
Wellcome Trust ;
NIAAA U01 AA021697;
NIMH Intramural Research Program ;
German federal state of Sachsen-Anhalt ;
European Regional Development Fund ;
Medical Research Council United Kingdom ;
NSF 1429999

Availability: Free, Freely available

Resource Name: Brain Imaging Data Structure (BIDs)

Resource ID: SCR_016124

Alternate IDs: <https://bids-specification.readthedocs.io/en/stable/>,
<https://doi.org/10.25504/FAIRsharing.rd1j6t>

Record Creation Time: 20220129T080329+0000

Record Last Update: 20250407T220311+0000

Ratings and Alerts

No rating or validation information has been found for Brain Imaging Data Structure (BIDs).

No alerts have been found for Brain Imaging Data Structure (BIDs).

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 192 mentions in open access literature.

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

Rampinini A, et al. (2025) NEBULA101: an open dataset for the study of language aptitude in behaviour, brain structure and function. *Scientific data*, 12(1), 19.

Luke R, et al. (2025) NIRS-BIDS: Brain Imaging Data Structure Extended to Near-Infrared Spectroscopy. *Scientific data*, 12(1), 159.

Tranfa M, et al. (2025) Conventional MRI-Based Structural Disconnection and Morphometric Similarity Networks and Their Clinical Correlates in Multiple Sclerosis. *Neurology*, 104(4),

e213349.

Stanziano M, et al. (2024) Resting-state fMRI functional connectome of C9orf72 mutation status. *Annals of clinical and translational neurology*, 11(3), 686.

Alushaj E, et al. (2024) Increased mean diffusivity of the caudal motor SNc identifies patients with REM sleep behaviour disorder and Parkinson's disease. *NPJ Parkinson's disease*, 10(1), 128.

Magalhães TNC, et al. (2024) Sex-steroid hormones relate to cerebellar structure and functional connectivity across adulthood. *bioRxiv : the preprint server for biology*.

Tisdall L, et al. (2024) Lifespan trajectories of risk preference, impulsivity, and self-control: A dataset containing self-report, informant-report, behavioral, hormone and functional neuroimaging measures from a cross-sectional human sample. *Data in brief*, 52, 109968.

Levitas D, et al. (2024) ezBIDS: Guided standardization of neuroimaging data interoperable with major data archives and platforms. *Scientific data*, 11(1), 179.

Tetereva A, et al. (2024) Improving Predictability, Reliability and Generalisability of Brain-Wide Associations for Cognitive Abilities via Multimodal Stacking. *bioRxiv : the preprint server for biology*.

Sinha H, et al. (2024) Solving the Pervasive Problem of Protocol Non-Compliance in MRI using an Open-Source tool mrQA. *Neuroinformatics*, 22(3), 297.

Groot JM, et al. (2024) A high-resolution 7 Tesla resting-state fMRI dataset optimized for studying the subcortex. *Data in brief*, 55, 110668.

Glick C, et al. (2024) Concurrent single-pulse (sp) TMS/fMRI to reveal the causal connectome in healthy and patient populations. *bioRxiv : the preprint server for biology*.

Liu Y, et al. (2024) Reproducible routes: reliably navigating the connectome to enrich personalized brain stimulation strategies. *Frontiers in human neuroscience*, 18, 1477049.

Bottani S, et al. (2024) Contrast-enhanced to non-contrast-enhanced image translation to exploit a clinical data warehouse of T1-weighted brain MRI. *BMC medical imaging*, 24(1), 67.

Papin LJ, et al. (2024) Investigating cognitive-motor effects during slacklining using mobile EEG. *Frontiers in human neuroscience*, 18, 1382959.

Elberse JD, et al. (2024) The interplay between insomnia symptoms and Alzheimer's disease across three main brain networks. *Sleep*, 47(10).

Huang Q, et al. (2024) Replay-triggered brain-wide activation in humans. *Nature communications*, 15(1), 7185.

van den Boom MA, et al. (2024) ER-detect: a pipeline for robust detection of early evoked responses in BIDS-iEEG electrical stimulation data. bioRxiv : the preprint server for biology.

Vinding MC, et al. (2024) The Swedish National Facility for Magnetoencephalography Parkinson's disease dataset. Scientific data, 11(1), 150.

Reynolds RC, et al. (2024) Processing, evaluating and understanding FMRI data with afni_proc.py. ArXiv.