

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: data or information resource, portal, narrative resource, 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

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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: 20260808T190049+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 235 mentions in open access literature.

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

Chin JH, et al. (2026) Deep learning in fetal, infant, and toddler neuroimaging research. Developmental cognitive neuroscience, 78, 101680.

LaGrow TJ, et al. (2026) Fidelity of Spatiotemporal Patterns of Brain Activity Across Sampling Rate, Scan Duration, and Frequency Content. bioRxiv : the preprint server for biology.

Abbatecola C, et al. (2026) Protocol for investigating the warping of spatial experience across the blind spot to contrast predictions of the Integrated Information Theory and Predictive Processing accounts of consciousness. PloS one, 21(1), e0340593.

Yang C, et al. (2026) Kymata Soto Language Dataset: an electro-magnetoencephalographic dataset for natural speech processing. Scientific data, 13(1),

Normannseth H, et al. (2026) BIDS-formatted resting-state and loudness dependence of auditory evoked potentials (LDAEP) EEG dataset from healthy women. *Data in brief*, 67, 112940.

Chourrout M, et al. (2026) The Extremely Brilliant Brain: An Isotropic Microscale Human Brain Dataset. *bioRxiv : the preprint server for biology*.

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

Belal M, et al. (2026) Cholinergic interneuron control of GABAergic circuits targeting spiny projection neurons is disrupted in parkinsonian models. *bioRxiv : the preprint server for biology*.

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.

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.

Valjakka JS, et al. (2025) Correlation of zero echo time functional MRI with neuronal activity in rats. *Journal of cerebral blood flow and metabolism : official journal of the International Society of Cerebral Blood Flow and Metabolism*, 45(5), 855.

Robinson JE, et al. (2025) The role of active inference in conscious awareness. *PloS one*, 20(12), e0328836.

Zhang M, et al. (2025) SpiDa-MRI: behavioral and (f)MRI data of adults with fear of spiders. *Scientific data*, 12(1), 284.

Bersier NM, et al. (2025) Cognitive traits shape the brain activity associated with mental rotation. *Cerebral cortex (New York, N.Y. : 1991)*, 35(4).

Chen H, et al. (2025) Multidimensional dataset for cognitive assessment, sMRI, and rsfMRI in common benign epileptic children. *Scientific data*, 12(1), 207.

Roger E, et al. (2025) When age tips the balance: A dual mechanism affecting hemispheric specialization for language. *Imaging neuroscience (Cambridge, Mass.)*, 3.

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.

Habersetzer T, et al. (2025) MEG-SCANS - A comprehensive magnetoencephalography speech dataset with Stories, Chirps and Noisy Sentences. *Scientific data*, 12(1), 1938.

Lampert F, et al. (2025) Adaptive neuromodulation dialogues: navigating current challenges and emerging innovations in neuromodulation system development. *Journal of neural engineering*, 22(6).