Resource Summary Report

Generated by kravitz2 on Sep 5, 2026

International Consortium for Brain Mapping

RRID:SCR_001948
Type: Tool

Proper Citation

International Consortium for Brain Mapping (RRID:SCR_001948)

Resource Information

URL: http://www.loni.usc.edu/ICBM/

Proper Citation: International Consortium for Brain Mapping (RRID:SCR_001948)

Description: A probabilistic reference system for the human brain, including tools to establish this reference system for structural and functional anatomy on both macroscopic (in vivo) and microscopic (post mortem) levels. The project has expanded the neuroinformatics tools for data sharing and created a Conforming Site System that allows laboratories worldwide to contribute data to the evolving atlas. Through the implementation of the ICBM data sharing policy space, they are fostering data exchange while still providing for scientific credit assignment and subject confidentiality. The ICBM atlas collection consists of the ICBM Template, a tool developed to provide a reference that includes both a set of coordinates and the associated anatomical labels; the ICBM 452 T1 atlas, an average of T1-weighted MRIs of normal young adult brains, the ICBM probabilistic atlases, and the newly released Cytoarchitectonic Atlas. The ICBM Subject Database is a web-based database infrastructure that simplifies image dataset collection, organization and dissemination. A web interface provides the means to query the data base using a combination of subject demographics and scan-related attributes. Authorized users may view representations of the data and form collections of datasets that can be downloaded or fed directly into the Pipeline environment for distributed processing and analysis. The current releases of ICBM related software are available for use by researchers. Links are provided to the various download sites. New releases are continually being tested and evaluated.

Abbreviations: ICBM

Synonyms: ICBM - International Consortium for Brain Mapping, International Consortium for Brain Mapping (ICBM)

Resource Type: data repository, atlas, database, service resource, software resource, reference atlas, storage service resource, data or information resource

Keywords: fmri, genetics, anatomy, architecture, atlas, brainstem, cerebellum, cortex, gray matter, histology, imaging, map, morphology, mri, neuroinformatics, pet, receptor, segmentation, subcortical, volume, warping, white matter, brain, early adult human, structural anatomy, functional anatomy, in vivo, post mortem, neuroanatomy, image collection

Related Condition: Normal

Funding: NIMH

Availability: The community can contribute to this resource

Resource Name: International Consortium for Brain Mapping

Resource ID: SCR_001948

Old URLs: http://www.loni.ucla.edu/ICBM/

Record Creation Time: 20220129T080210+0000

Record Last Update: 20260903T234510+0000

Ratings and Alerts

No rating or validation information has been found for International Consortium for Brain Mapping.

No alerts have been found for International Consortium for Brain Mapping.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 23 mentions in open access literature.

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

Finkelstein O, et al. (2024) Deep learning-based BMI inference from structural brain MRI reflects brain alterations following lifestyle intervention. Human brain mapping, 45(3), e26595.

Akazawa K, et al. (2019) Automated Generation of Radiologic Descriptions on Brain Volume Changes From T1-Weighted MR Images: Initial Assessment of Feasibility. Frontiers in neurology, 10, 7.

Viviani R, et al. (2016) A Digital Atlas of Middle to Large Brain Vessels and Their Relation to Cortical and Subcortical Structures. Frontiers in neuroanatomy, 10, 12.

Ganzetti M, et al. (2015) Mapping pathological changes in brain structure by combining T1- and T2-weighted MR imaging data. Neuroradiology, 57(9), 917.

Luders E, et al. (2015) Larger hippocampal dimensions in meditation practitioners: differential effects in women and men. Frontiers in psychology, 6, 186.

Ribeiro AS, et al. (2015) Multimodal Imaging Brain Connectivity Analysis (MIBCA) toolbox. PeerJ, 3, e1078.

Anazodo UC, et al. (2014) Feasibility of simultaneous whole-brain imaging on an integrated PET-MRI system using an enhanced 2-point Dixon attenuation correction method. Frontiers in neuroscience, 8, 434.

Eloyan A, et al. (2014) Analytic programming with FMRI data: a quick-start guide for statisticians using R. PloS one, 9(2), e89470.

Johnson JD, et al. (2013) Recollection, familiarity, and content-sensitivity in lateral parietal cortex: a high-resolution fMRI study. Frontiers in human neuroscience, 7, 219.

Klados MA, et al. (2013) A Graph theoretical approach to study the organization of the cortical networks during different mathematical tasks. PloS one, 8(8), e71800.

de Haas B, et al. (2013) Auditory modulation of visual stimulus encoding in human retinotopic cortex. NeuroImage, 70, 258.

Cerliani L, et al. (2012) Probabilistic tractography recovers a rostrocaudal trajectory of connectivity variability in the human insular cortex. Human brain mapping, 33(9), 2005.

Narayana PA, et al. (2012) Regional cortical thickness in relapsing remitting multiple sclerosis: A multi-center study. NeuroImage. Clinical, 2, 120.

Brown JA, et al. (2012) The UCLA multimodal connectivity database: a web-based platform for brain connectivity matrix sharing and analysis. Frontiers in neuroinformatics, 6, 28.

Lithari C, et al. (2012) Alcohol affects the brain's resting-state network in social drinkers. PloS one, 7(10), e48641.

Leaver AM, et al. (2012) Cortico-limbic morphology separates tinnitus from tinnitus distress. Frontiers in systems neuroscience, 6, 21.

Pajula J, et al. (2012) Inter-subject correlation in fMRI: method validation against stimulus-model based analysis. PloS one, 7(8), e41196.

Hegd?? J, et al. (2012) Object recognition in clutter: cortical responses depend on the type of learning. Frontiers in human neuroscience, 6, 170.

Zweynert S, et al. (2011) Motivational salience modulates hippocampal repetition suppression and functional connectivity in humans. Frontiers in human neuroscience, 5, 144.

Turken AU, et al. (2011) The neural architecture of the language comprehension network: converging evidence from lesion and connectivity analyses. Frontiers in systems neuroscience, 5, 1.