Resource Summary Report

Generated by dkNET on Apr 18, 2025

Allen Human Brain Atlas

RRID:SCR_007416
Type: Tool

Proper Citation

Allen Human Brain Atlas (RRID:SCR_007416)

Resource Information

URL: http://human.brain-map.org/static/brainexplorer

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Description: Multi modal atlas of human brain that integrates anatomic and genomic information, coupled with suite of visualization and mining tools to create open public resource for brain researchers and other scientists. Data include magnetic resonance imaging (MRI), diffusion tensor imaging (DTI), histology and gene expression data derived from both microarray and in situ hybridization (ISH) approaches. Brain Explorer 2 is desktop software application for viewing human brain anatomy and gene expression data in 3D.

Synonyms: Human Cortex Study, Allen Institute for Brain Science Human Cortex Study, Allen Brain Atlas - Human Brain

Resource Type: atlas, database, data processing software, software application, software resource, data visualization software, data or information resource

Defining Citation: PMID:23041053

Keywords: atlas, human, brain, anatomic, genomic, data, visualization, mining, tool, MRI, DTI, histology, gene, expression

Funding: Individual private donors ;
U.S. Department of Health and Human Services 1C76HF15069;
U.S. Department of Health and Human Services 1C76HF19619

Availability: Free, Available for download, Freely available

Resource Name: Allen Human Brain Atlas

Resource ID: SCR_007416

Alternate IDs: nif-0000-00506

Old URLs: http://humancortex.alleninstitute.org, http://human.brain-map.org/

Record Creation Time: 20220129T080241+0000

Record Last Update: 20250418T055148+0000

Ratings and Alerts

No rating or validation information has been found for Allen Human Brain Atlas.

No alerts have been found for Allen Human Brain Atlas.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 128 mentions in open access literature.

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

Sanchez-Rodriguez LM, et al. (2024) In-vivo neuronal dysfunction by A? and tau overlaps with brain-wide inflammatory mechanisms in Alzheimer's disease. Frontiers in aging neuroscience, 16, 1383163.

Wang Y, et al. (2024) Spatio-molecular profiles shape the human cerebellar hierarchy along the sensorimotor-association axis. Cell reports, 43(2), 113770.

Moujaes F, et al. (2024) Ketamine induces multiple individually distinct whole-brain functional connectivity signatures. eLife, 13.

Larson RC, et al. (2023) Anti-TACI single and dual-targeting CAR T cells overcome BCMA antigen loss in multiple myeloma. Nature communications, 14(1), 7509.

Xia Y, et al. (2022) Development of functional connectome gradients during childhood and adolescence. Science bulletin, 67(10), 1049.

Griessner J, et al. (2021) Central amygdala circuit dynamics underlying the benzodiazepine anxiolytic effect. Molecular psychiatry, 26(2), 534.

Adewale Q, et al. (2021) Integrated transcriptomic and neuroimaging brain model decodes

biological mechanisms in aging and Alzheimer's disease. eLife, 10.

McCutcheon RA, et al. (2021) Dopaminergic organization of striatum is linked to cortical activity and brain expression of genes associated with psychiatric illness. Science advances, 7(24).

Ji JL, et al. (2021) Mapping brain-behavior space relationships along the psychosis spectrum. eLife, 10.

Vogel JW, et al. (2020) A molecular gradient along the longitudinal axis of the human hippocampus informs large-scale behavioral systems. Nature communications, 11(1), 960.

Romero-Garcia R, et al. (2019) Synaptic and transcriptionally downregulated genes are associated with cortical thickness differences in autism. Molecular psychiatry, 24(7), 1053.

Tenenbaum JD, et al. (2019) Translational bioinformatics in mental health: open access data sources and computational biomarker discovery. Briefings in bioinformatics, 20(3), 842.

Franzmeier N, et al. (2019) The BIN1 rs744373 SNP is associated with increased tau-PET levels and impaired memory. Nature communications, 10(1), 1766.

Quintana DS, et al. (2019) Oxytocin pathway gene networks in the human brain. Nature communications, 10(1), 668.

Selvaggi P, et al. (2019) Increased cerebral blood flow after single dose of antipsychotics in healthy volunteers depends on dopamine D2 receptor density profiles. NeuroImage, 188, 774.

Sequeira A, et al. (2019) Human brain transcriptome analysis finds region- and subject-specific expression signatures of GABAAR subunits. Communications biology, 2, 153.

Morgan SE, et al. (2019) Cortical patterning of abnormal morphometric similarity in psychosis is associated with brain expression of schizophrenia-related genes. Proceedings of the National Academy of Sciences of the United States of America, 116(19), 9604.

Pristerà A, et al. (2019) Dopamine neuron-derived IGF-1 controls dopamine neuron firing, skill learning, and exploration. Proceedings of the National Academy of Sciences of the United States of America, 116(9), 3817.

Burns JA, et al. (2019) Molecular Imaging of Opioid and Dopamine Systems: Insights Into the Pharmacogenetics of Opioid Use Disorders. Frontiers in psychiatry, 10, 626.

Giandomenico SL, et al. (2019) Cerebral organoids at the air-liquid interface generate diverse nerve tracts with functional output. Nature neuroscience, 22(4), 669.