

Resource Summary Report

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Abagen

RRID:SCR_023832

Type: Tool

Proper Citation

Abagen (RRID:SCR_023832)

Resource Information

URL: <https://abagen.readthedocs.io/en/stable/>

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Description: Software package provides Python interface for acquiring and analyzing Allen Human Brain Atlas microarray expression data. Includes reproducible workflow for processing microarray expression data for further analysis. Used for the Allen Brain Atlas genetics data.

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

Keywords: Allen Human Brain Atlas, Allen Brain Atlas genetics data, genetics data, microarray expression data,

Availability: Free, Available for download, Freely available

Resource Name: Abagen

Resource ID: SCR_023832

Record Creation Time: 20230721T050220+0000

Record Last Update: 20260905T133027+0000

Ratings and Alerts

No rating or validation information has been found for Abagen.

No alerts have been found for Abagen.

Data and Source Information

Usage and Citation Metrics

We found 19 mentions in open access literature.

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

Hansen JY, et al. (2026) Synapse types are spatially associated with regional hemodynamics in the mouse brain. PLoS biology, 24(2), e3003637.

Xiong J, et al. (2026) Functional connectome gradient alterations in herpes zoster and postherpetic neuralgia: associations with gene expression profiles. The journal of headache and pain, 27(1).

Gu SY, et al. (2026) Inflammation-associated brain functional network topological disruption in female nurses with SWSD: associations with symptoms and transcriptomics. Frontiers in immunology, 17, 1724276.

Martins D, et al. (2026) Molecular, cellular and network mapping of brain structural deviations in patients with Post-COVID19 syndrome. Brain, behavior, & immunity - health, 55, 101292.

Feng G, et al. (2025) Cellular and molecular associations with intrinsic brain organization. Nature communications, 16(1), 11641.

Vo A, et al. (2025) Convergent large-scale network and local vulnerabilities underlie brain atrophy across Parkinson's disease stages: a worldwide ENIGMA study. medRxiv : the preprint server for health sciences.

Saberi A, et al. (2025) Adolescent maturation of cortical excitation-inhibition ratio based on individualized biophysical network modeling. Science advances, 11(23), eadr8164.

Lu Y, et al. (2025) Detection of structural-functional coupling abnormalities using multimodal brain networks in Alzheimer's disease: A comparison of three computational models. NeuroImage. Clinical, 46, 103764.

da Silva Castanheira J, et al. (2025) The lifespan evolution of individualized neurophysiological traits. Cell reports, 44(12), 116657.

Jimenez-Marin A, et al. (2024) Open datasets and code for multi-scale relations on structure, function and neuro-genetics in the human brain. Scientific data, 11(1), 256.

Wang D, et al. (2024) Macroscale Gradient Dysfunction in Alzheimer's Disease: Patterns With Cognition Terms and Gene Expression Profiles. Human brain mapping, 45(15), e70046.

Zhang Z, et al. (2024) State-specific Regulation of Electrical Stimulation in the Intralaminar Thalamus of Macaque Monkeys: Network and Transcriptional Insights into Arousal. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(33), e2402718.

Saberi A, et al. (2024) Adolescent maturation of cortical excitation-inhibition balance based on individualized biophysical network modeling. *bioRxiv : the preprint server for biology*.

Sun Y, et al. (2024) Structure-function coupling reveals the brain hierarchical structure dysfunction in Alzheimer's disease: A multicenter study. *Alzheimer's & dementia : the journal of the Alzheimer's Association*, 20(9), 6305.

Broce IJ, et al. (2024) C9orf72 gene networks in the human brain correlate with cortical thickness in C9-FTD and implicate vulnerable cell types. *Frontiers in neuroscience*, 18, 1258996.

Zhang B, et al. (2024) Whole brain alignment of spatial transcriptomics between humans and mice with BrainAlign. *Nature communications*, 15(1), 6302.

Guma E, et al. (2024) Comparative neuroimaging of sex differences in human and mouse brain anatomy. *eLife*, 13.

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

Guma E, et al. (2023) Comparative neuroimaging of sex differences in human and mouse brain anatomy. *bioRxiv : the preprint server for biology*.