Resource Summary Report

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Allen Mouse Brain Connectivity Atlas

RRID:SCR_008848
Type: Tool

Proper Citation

Allen Mouse Brain Connectivity Atlas (RRID:SCR_008848)

Resource Information

URL: http://connectivity.brain-map.org/

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Description: Map of neural connections in mouse brain, built on an array of transgenic mice genetically engineered to target specific cell types. In addition to the connectivity data, information about the transgenic mouse lines and genetic tracers is available. Consists of high resolution 2-D projectivity image data that can be viewed side-by-side with the associated reference atlas and other reference datasets. Enables 3-D visualization and spatial/ontological search of connectivity models through a combination of manual and informatics analyses.

Abbreviations: ABA Mouse Connectivity

Synonyms: Allen Brain Atlas Connectivity Study, Allen Brain Mouse Connectivity, Allen Mouse Connectivity Atlas, Allen Brain Atlas Mouse Connectivity

Resource Type: data or information resource, atlas, spatially referenced dataset

Keywords: brain, connectivity, atlas, neural, projection, mutant, mouse, strain, image, histology, neuroimaging, data

Funding: Allen Institute for Brain Science

Availability: Free for academic use, Non-commercial, Acknowledgement required, Commercial use requires permission

Resource Name: Allen Mouse Brain Connectivity Atlas

Resource ID: SCR_008848

Alternate IDs: nlx_146253

Alternate URLs: http://connectivity.brain-map.org/static/brainexplorer

Record Creation Time: 20220129T080249+0000

Record Last Update: 20260804T043358+0000

Ratings and Alerts

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

No alerts have been found for Allen Mouse Brain Connectivity Atlas.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 186 mentions in open access literature.

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

Imam FT, et al. (2025) Developing a multiscale neural connectivity knowledgebase of the autonomic nervous system. Frontiers in neuroinformatics, 19, 1541184.

Falasconi A, et al. (2025) Dynamic basal ganglia output signals license and suppress forelimb movements. Nature, 644(8077), 749.

Zhang L, et al. (2025) Kisspeptin fiber and receptor distribution analysis suggests its potential role in central sensorial processing and behavioral state control. Journal of neuroendocrinology, 37(5), e70007.

Greenstreet F, et al. (2025) Dopaminergic action prediction errors serve as a value-free teaching signal. Nature, 643(8074), 1333.

Tsyporin J, et al. (2025) Competing Programs Shape Cortical Sensorimotor-Association Axis Development. bioRxiv : the preprint server for biology.

Liu J, et al. (2025) Brain-Wide Spatiotemporally Distinct Traveling Waves Drive Anxiety-Like Behaviors in Mice. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(40), e11867.

Xiong F, et al. (2025) Reconstruction of a connectome of single neurons in mouse brains by cross-validating multi-scale multi-modality data. Nature methods, 22(12), 2670.

Chittajallu R, et al. (2025) Complex opioid-driven modulation of glutamatergic and cholinergic neurotransmission in a GABAergic brain nucleus associated with emotion, reward, and addiction. eLife, 14.

Milisav F, et al. (2025) A simulated annealing algorithm for randomizing weighted networks. Nature computational science, 5(1), 48.

Parker PD, et al. (2025) Tonotopically distinct OFF responses arise in the mouse auditory midbrain following sideband suppression. bioRxiv : the preprint server for biology.

Wang Y, et al. (2025) Integrated Classification of Cortical Cells and Quantitative Projectomic Mapping Unveil Organizational Principles of Brain-Wide Connectomes at Single Cell Level. bioRxiv : the preprint server for biology.

Humphries MD, et al. (2025) The Computational Bottleneck of Basal Ganglia Output (and What to Do About it). eNeuro, 12(4).

Tong C, et al. (2025) Norepinephrine-mediated arousal fluctuations drive inverted U-shaped functional connectivity dynamics. Nature communications, 16(1), 11318.

Nitzan N, et al. (2024) Physiological characteristics of neurons in the mammillary bodies align with topographical organization of subicular inputs. Cell reports, 43(8), 114539.

Rault N, et al. (2024) Where Top-Down Meets Bottom-Up: Cell-Type Specific Connectivity Map of the Whisker System. Neuroinformatics, 22(3), 251.

van Hout ATB, et al. (2024) Comparing mouse and human cingulate cortex organization using functional connectivity. Brain structure & function, 229(8), 1913.

Tao Q, et al. (2024) Benchmarking mapping algorithms for cell-type annotating in mouse brain by integrating single-nucleus RNA-seq and Stereo-seq data. Briefings in bioinformatics, 25(4).

Barraclough BN, et al. (2024) Direct comparison of Hoxb8-driven reporter distribution in the brains of four transgenic mouse lines: towards a spinofugal projection atlas. Frontiers in neuroanatomy, 18, 1400015.

Su??rez LE, et al. (2024) Connectome-based reservoir computing with the conn2res toolbox. Nature communications, 15(1), 656.

Zhang ZH, et al. (2024) Identification of a Hippocampus-to-Zona Incerta Projection involved in Motor Learning. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(33), e2307185.