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: atlas, data or information resource, 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: 20260904T000257+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 210 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Bhandiwad AA, et al. (2026) A curvilinear coordinate flatmap for visualizing hippocampal structure and development. bioRxiv : the preprint server for biology.

Sang C, et al. (2026) BrainConnect: processing brain connectivity and spatial transcriptomics data for integrative analysis. Bioinformatics (Oxford, England), 42(3).

Puelles L, et al. (2026) Internal connectivity of the mouse mesocortical ring and functional implications. Brain structure & function, 231(5).

Hsu TT, et al. (2026) Shared and divergent alteration of whole-brain connectivity and sensory deficits in multiple autism mouse models. Molecular psychiatry, 31(4), 2038.

Kandil IF, et al. (2026) A Distinct Subpopulation of Extended Amygdala Neurons Drives Food Intake. Biological psychiatry global open science, 6(4), 100744.

Wang Q, et al. (2026) Genoarchitecture and input-output organization of the mouse basal ganglia and thalamic parafascicular nucleus. Nature neuroscience, 29(5), 1248.

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.

Pan-Vazquez A, et al. (2025) VTA dopamine neuron activity produces spatially organized value representations. bioRxiv : the preprint server for biology.

Lien AD, et al. (2025) Highly selective visual receptive fields in mouse frontal cortex. bioRxiv : the preprint server for biology.

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.

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.

Venkadesh S, et al. (2025) Directed connectomes across species reveal conserved and divergent pathways of neural signaling. bioRxiv : the preprint server for biology.

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.

Rayfield AC, et al. (2025) Individualized mouse brain network models produce asymmetric patterns of functional connectivity after simulated traumatic injury. Network neuroscience (Cambridge, Mass.), 9(1), 326.

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.