# Resource Summary Report

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# Allen Mouse Brain Common Coordinate Framework

RRID:SCR_020999
Type: Tool

## Proper Citation

Allen Mouse Brain Common Coordinate Framework (RRID:SCR_020999)

## Resource Information

**URL:** https://atlas.brain-map.org/

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**Description:** 3D reference atlas to use with online datasets or as standalone resources. Can be used to analyze, visualize, and integrate multimodal and multiscale datasets in 3D. Intensity and shape population average template brain serves as basis of reference space and coordinate system. Average was constructed at 10 um voxel resolution by interpolating high resolution serial two photon tomography images from young adult C57BL/6J mice. Using multimodal reference data, entire brain was directly parcellated in 3D, labeling every voxel with brain structure from Allen Mouse Reference Atlas Ontology. In the 2017 release, the parcellation spanned 43 isocortical areas and their layers, 329 subcortical gray matter structures, 81 fiber tracts, and 8 ventricular structures.

**Abbreviations:** Allen CCF, CCFv3

**Synonyms:** The Allen Mouse Brain Common Coordinate Framework: A 3D Reference Atlas

**Resource Type:** reference atlas, data or information resource, atlas

**Defining Citation:** PMID:32386544

**Keywords:** 3D anatomical reference atlas, brain anatomy, adult mouse brain images

**Availability:** Free, Freely available

**Resource Name:** Allen Mouse Brain Common Coordinate Framework

**Resource ID:** SCR_020999

**Alternate URLs:** https://community.brain-map.org/t/allen-mouse-ccf-accessing-and-using-related-data-and-tools/359

**License URLs:** https://alleninstitute.org/legal/citation-policy/

**Record Creation Time:** 20220129T080353+0000

**Record Last Update:** 20260806T054720+0000

## Ratings and Alerts

No rating or validation information has been found for Allen Mouse Brain Common Coordinate Framework.

No alerts have been found for Allen Mouse Brain Common Coordinate Framework.

## Data and Source Information

**Source:** SciCrunch Registry

## Usage and Citation Metrics

We found 251 mentions in open access literature.

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


Zolzaya S, et al. (2025) Neuronal Populations Involved in Motor Function Show Prominent Expression of Sbno1 During Postnatal Brain Development. Journal of developmental biology, 13(1).

Yang X, et al. (2025) Quantitative assessment of brain metabolism in mice using non-contrast MRI at 11.7T. MethodsX, 14, 103175.

Jin K, et al. (2025) Brain-wide cell-type-specific transcriptomic signatures of healthy ageing in mice. Nature, 638(8049), 182.

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

Chen J, et al. (2025) The spatiotemporal transcriptional profiling of murine brain during cerebral malaria progression and after artemisinin treatment. Nature communications, 16(1), 1540.

Shemiakova TS, et al. (2025) TAAR8 in the Brain: Implications for Dopaminergic Function, Neurogenesis, and Behavior. Biomedicines, 13(6).

Hong D, et al. (2025) Divergent combinations of enhancers encode spatial gene expression. Nature communications, 16(1), 5091.

Pinckard J, et al. (2025) Functional ultrasound as a quantitative approach for measuring functional hyperemia in aging models. NeuroImage, 316, 121313.

Carey H, et al. (2025) DeMBA: a developmental atlas for navigating the mouse brain in space and time. Nature communications, 16(1), 8108.

Cooper ML, et al. (2025) Astrocytes connect specific brain regions through plastic gap junctional networks. bioRxiv : the preprint server for biology.

Fouka M, et al. (2025) In vivo validation of novel non-invasive PHP.eB AAVs as a potential therapeutic approach for alpha-synucleinopathies. Acta neuropathologica communications, 13(1), 207.

Shubert NMA, et al. (2025) Integrating GWAS meta-analysis with human brain cell mapping implicates the amygdala and the midbrain in the pathogenesis of tinnitus. medRxiv : the preprint server for health sciences.

Dwortz MF, et al. (2025) Social Processing in the Amygdala: Single-Nucleus RNA-Sequencing Reveals Distinct Neuronal Responses to Dominant and Subordinate Cues. bioRxiv : the preprint server for biology.

Capdevila-Bayo M, et al. (2025) A peripheral proteomic signature of Alzheimer's disease is identified in the plasma extracellular vesicles of mild cognitive impairment patients from a memory clinic: the BIOPEXAL study. Research square.

Bramlett SN, et al. (2025) Endogenous regulator of G protein signaling 14 (RGS14) blunts cocaine-induced emotionally motivated behaviors in female mice. Addiction neuroscience, 15.

Chilaparasetti AN, et al. (2025) RegBoost: Enhancing mouse brain image registration using geometric priors and Laplacian interpolation. NeuroImage, 305, 120981.

Sun Y, et al. (2025) High-Throughput Proteoform Imaging for Revealing Spatial-Resolved Changes in Brain Tissues Associated with Alzheimer's Disease. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 12(17), e2416722.

Ambroziak W, et al. (2025) Thermally induced neuronal plasticity in the hypothalamus mediates heat tolerance. Nature neuroscience, 28(2), 346.

Kaur N, et al. (2025) Specification of claustro-amygdalar and palaeocortical neurons and circuits. Nature, 638(8050), 469.

Boccalaro IL, et al. (2025) A role for the thalamus in danger evoked awakening during sleep. Nature communications, 16(1), 7049.