Resource Summary Report

Generated by dkNET on Aug 11, 2026

eMouseAtlas

RRID:SCR_002981
Type: Tool

Proper Citation

eMouseAtlas (RRID:SCR_002981)

Resource Information

URL: http://www.emouseatlas.org

Proper Citation: eMouseAtlas (RRID:SCR_002981)

Description: Detailed multidimensional digital multimodal atlas of C57BL/6J mouse nervous system with data and informatics pipeline that can automatically register, annotate, and visualize large scale neuroanatomical and connectivity data produced in histology, neuronal tract tracing, MR imaging, and genetic labeling. MAP2.0 interoperates with commonly used publicly available databases to bring together brain architecture, gene expression, and imaging information into single, simple interface.Resource to visualise mouse development, identify anatomical structures, determine developmental stage, and investigate gene expression in mouse embryo. eMouseAtlas portal page allows access to EMA Anatomy Atlas of Mouse Development and EMAGE database of gene expression.EMAGE is freely available, curated database of gene expression patterns generated by in situ techniques in developing mouse embryo. EMA, e-Mouse Atlas, is 3-D anatomical atlas of mouse embryo development including histology and includes EMAP ontology of anatomical structure, provides information about shape, gross anatomy and detailed histological structure of mouse, and framework into which information about gene function can be mapped.

Abbreviations: EMAP, EMA, EMAGE, MAP, EMAP, MAP2.0,

Synonyms: emouseatlas, e-mouse Atlas, EMAGE Gene Expression Database, EMA, Edinburgh Mouse Atlas of Gene Expression, e-Mouse Atlas, EMA Anatomy Atlas of Mouse Development

Resource Type: data or information resource, atlas, database

Defining Citation: PMID:15043218, PMID:18077470, PMID:16381949

Keywords: Mouse Atlas Project, molecular neuroanatomy resource, adult mouse, mouse, brain, c57bl/6j, magnetic resonance microscopy, diffusion-weighted image, blockface imaging, immunohistochemistry, in situ hybridization, neuroanatomy, mri, dti, brain architecture, gene expression, neuroimaging, ontology, connectivity, histology, neuronal tract tracing, genetic labeling, newborn mouse, experimental protocol, bio.tools, ontology, histology, mouse embryo, gene expression, gxd query interface, digital anatomical atlas, spatial region, domain, 2d, 3d, virtual embryo model, development atlas, standard anatomical nomenclature, developmental staging criteria, spatially mapped, anatomy nomenclature, molecular neuroanatomy resource, embryonic mouse, FASEB list

Funding: Medical Research Council ;
NINDS ;
NIBIB ;
NIDA ;
NIDCD ;
NIA

Availability: Free, Freely available

Resource Name: eMouseAtlas

Resource ID: SCR_002981

Alternate IDs: nif-0000-00038, nif-0000-00505, biotools:emap, biotools:ma, SCR_007281

Alternate URLs: http://www.emouseatlas.org/emap/home.html, https://bio.tools/emap, https://bio.tools/ma

Old URLs: http://genex.hgu.mrc.ac.uk/, http://www.loni.ucla.edu/MAP/

Record Creation Time: 20220129T080216+0000

Record Last Update: 20260811T043153+0000

Ratings and Alerts

No rating or validation information has been found for eMouseAtlas.

No alerts have been found for eMouseAtlas.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 71 mentions in open access literature.

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

Dong X, et al. (2025) High-resolution spatial transcriptomics in fixed tissue using a cost-effective PCL-seq workflow. Genome research, 35(9), 2052.

Senner CE, et al. (2023) One-carbon metabolism is required for epigenetic stability in the mouse placenta. Frontiers in cell and developmental biology, 11, 1209928.

Wang R, et al. (2023) Integration of Computational Analysis and Spatial Transcriptomics in Single-cell Studies. Genomics, proteomics & bioinformatics, 21(1), 13.

Qu F, et al. (2023) Three-dimensional molecular architecture of mouse organogenesis. Nature communications, 14(1), 4599.

de Goederen V, et al. (2022) Hinge point emergence in mammalian spinal neurulation. Proceedings of the National Academy of Sciences of the United States of America, 119(20), e2117075119.

Chen A, et al. (2022) Spatiotemporal transcriptomic atlas of mouse organogenesis using DNA nanoball-patterned arrays. Cell, 185(10), 1777.

Glaser J, et al. (2022) The imprinted Zdbf2 gene finely tunes control of feeding and growth in neonates. eLife, 11.

Towler OW, et al. (2021) Dysregulated BMP signaling through ACVR1 impairs digit joint development in fibrodysplasia ossificans progressiva (FOP). Developmental biology, 470, 136.

Wilkinson AL, et al. (2021) Disruption of Folate Metabolism Causes Poor Alignment and Spacing of Mouse Conceptuses for Multiple Generations. Frontiers in cell and developmental biology, 9, 723978.

Ruyani A, et al. (2021) Leaf ethanolic extract of Etlingera hemesphaerica Blume mitigates defects in fetal anatomy and endochondral ossification due to mercuric chloride during the post-implantation period in Mus musculus. PloS one, 16(3), e0247467.

Mittnenzweig M, et al. (2021) A single-embryo, single-cell time-resolved model for mouse gastrulation. Cell, 184(11), 2825.

Nakano T, et al. (2021) Effects of Ppar??1 deletion on late-stage murine embryogenesis and cells that undergo endocycle. Developmental biology, 478, 222.

Redpath AN, et al. (2021) Analysis of epicardial genes in embryonic mouse hearts with flow cytometry. STAR protocols, 2(1), 100359.

Castro Colabianchi AM, et al. (2021) Segregation of brain and organizer precursors is differentially regulated by Nodal signaling at blastula stage. Biology open, 10(2).

Osanlouy M, et al. (2021) The SPARC DRC: Building a Resource for the Autonomic Nervous System Community. Frontiers in physiology, 12, 693735.

Lindstr??m NO, et al. (2021) Spatial transcriptional mapping of the human nephrogenic program. Developmental cell, 56(16), 2381.

Menelaou K, et al. (2020) Blastocyst transfer in mice alters the placental transcriptome and growth. Reproduction (Cambridge, England), 159(2), 115.

Rebellato P, et al. (2019) The T-type Ca2+ Channel Cav3.2 Regulates Differentiation of Neural Progenitor Cells during Cortical Development via Caspase-3. Neuroscience, 402, 78.

Yokomizo T, et al. (2019) Hlf marks the developmental pathway for hematopoietic stem cells but not for erythro-myeloid progenitors. The Journal of experimental medicine, 216(7), 1599.

Punovuori K, et al. (2019) N-cadherin stabilises neural identity by dampening anti-neural signals. Development (Cambridge, England), 146(21).