

## Atlas Of The Mouse Brain And Spinal Cord Commonwealth Fund Publications

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**Virtual Tour: Allen Mouse Brain Connectivity Atlas** *Tutorial: Allen Developing Mouse Brain* Tutorial: Brain Explorer® 3-D Viewer for the Allen Mouse Brain Atlas **Blue Brain Cell Atlas: the first 3D digital cell atlas for the mouse brain** **Mouse Brain Visualization Brain Histology** Webinar: Allen Mouse Brain Connectivity Atlas Tutorial: Allen Mouse Brain Atlas **Mouse Brain Dissection - Isolation of the hippocampus** Mapping the mouse brain **ASMR - TRAVEL ATLAS (new book) Fueling Discovery: Allen Mouse Brain Connectivity Atlas** Introduction: **Neuroanatomy Video Lab—Brain Dissections** **5 Best and Worst Books I Read at Harvard** **Mice Brain Dissection || Hippocampus** CLARITY: Mouse Brain - Cortex, Hippocampus, Thalamus

What is China’s Brain Project and how does it differ from brain projects in the US and Europe?

Google publishes largest ever high-resolution map of brain connectivity Fall 2014: Future Home of the Allen Institute for Brain Science **Allen Institute for Brain Science: Understanding the Brain** *Scientists discover hidden patterns of brain activity* **Science Vignette: A Cellular Taxonomy of the Visual Cortex** Michael Hawrylycz: **Creating a 3D brain map to aid research** *Technical Tour: Explore the Allen Mouse Brain Connectivity Atlas* *Allen Mouse Brain Connectivity Atlas* *u0026 BrainSpan Atlas of the Developing Human Brain*

**Webinar: Using the Allen Brain Atlas resources (October 2012)**

Incredible detailed video of a mouse brain **Homo digitalis - Henry Markram**

A Map of the Brain: Allan Jones at TEDxCaltech **Tutorial: Allen Human Brain Atlas Atlas Of The Mouse Brain**

The Allen Mouse Brain Atlas includes a full-color, high-resolution anatomic reference atlas accompanied by a systematic, hierarchically organized taxonomy of mouse brain structures. In 2011, the reference atlas was updated to enable interactive online exploration of the atlas and to provide a deeper level of 3-D annotation for informatics analysis and viewing in the Brain Explorer® 3-D viewer.

**Reference Atlas :: Allen Brain Atlas: Mouse Brain**

The Atlas, a 3D recreation of every cell in the mouse brain, is the work of the Swiss EPFL’s Blue Brain Project, a vast effort with the goal of digitally reconstructing and simulating the mouse brain and ultimately, the human brain. The Project is directed by Prof. Henry Markram, who also founded the European Human Brain Project.

**A Cell Atlas of the Mouse Brain: A Step Towards Brain ...**

We have here established a molecular atlas of the adult mouse brain exclusively on the basis of unsupervised classification of ST patterns on a whole-brain scale. A challenge in neuroscience has...

**Molecular atlas of the adult mouse brain | Science Advances**

We describe here an anatomically comprehensive digital atlas containing the expression patterns of approximately 20,000 genes in the adult mouse brain. Data were generated using automated high-throughput procedures for in situ hybridization and data acquisition, and are publicly accessible online.

**Genome-wide atlas of gene expression in the adult mouse brain**

The Allen Mouse Brain Connectivity Atlas is a comprehensive database of high-resolution images of axonal projections originating from distinct anatomical regions of wild-type mouse brains or from various genetically labeled cell populations in individual brain regions of Cre-driver mice . Briefly, to create the atlas, each mouse brain was injected with an enhanced green fluorescent protein (EGFP)-expressing adeno-associated virus (AAV) as an anterograde viral tracer into a particular brain ...

**Neuroinformatics of the Allen Mouse Brain Connectivity Atlas**

Mouse Brain Atlas. A unique multimodal atlas of the adult mouse brain, featuring anatomic and genomic data. View Atlas. Developing Mouse Brain Atlas. A detailed atlas of gene expression across 7 stages of development. View Atlas. Mouse Spinal Cord Atlas. A detailed atlas of gene expression across the adult and juvenile mouse spinal cord. View Atlas. Adult and Developing NHP Atlas

**Brain Map - brain-map.org - Allen Brain Atlas**

The LSA provides a framework for understanding stereotypical life-span trajectories of behavioral changes and psychological functions (13–15) and why gene mutations characteristically result in...

**A brainwide atlas of synapses across the mouse life span ...**

The 2D sagittal reference atlas is annotated on Nissl sections collected from a single adult male C57Bl6 mouse, embryonic day 13.5 (E13.5) or Theiler stage 21 (TS21). It provides the spatial context for in situ hybridization-based gene expression in the Allen Developing Mouse Brain Atlas. 15 sagittal sections at 100 µm intervals

**Atlas Viewer - Allen Brain Reference Atlases**

ISH Data: Reference Atlas: AGEA: Brain Explorer: Related Studies Sleep; Mouse Strains; Documentation: Help

**ISH Data :: Allen Brain Atlas: Mouse Brain**

Details on processing, imaging, calibration, and making brain data available online Mouse Brain Library Training Manual Training Manual - Detailed Protocol Mouse Brain Atlas Tutorial Information, images, and HTML for creating an atlas of your own MBL Slide Library Tutorial Step-by-step instructions for creating a slide database in FileMaker."

**The Mouse Brain Library - Search the library**

By combining multi-omic datasets (DNA methylation, chromatin contacts, and open chromatin) from single nuclei and annotating the regulatory genome of hundreds of cell types in the mouse brain, our DNA methylation atlas establishes the epigenetic basis for neuronal diversity and spatial organization throughout the mouse brain.

**DNA Methylation Atlas of the Mouse Brain at Single-Cell ...**

Synapses connect neurons together to form the circuits of the brain, and their molecular composition controls innate and learned behavior. We analyzed the molecular and morphological diversity of 5 billion excitatory synapses at single-synapse resolution across the mouse brain from birth to old age. ...

**A brainwide atlas of synapses across the mouse life span**

Another invaluable dataset is the mouse whole-brain atlas made available by the Allen Institute for Brain Science (AIBS) (Lein et al., 2007; Dong, 2008). This atlas contains Nissl stained microscopy slices for the whole brain, as well as most genes used in situ hybridization studies.

**Frontiers | A Cell Atlas for the Mouse Brain | Frontiers ...**

We used MOST to image a whole brain of an adult Kunming (KM) mouse. The brain was from a 5-week-old male with a body weight of 27.57 g and a body length of 173 mm. During specimen preparation ,...

**Micro-Optical Sectioning Tomography to Obtain a High ...**

Another invaluable dataset is the mouse whole-brain atlas made available by the Allen Institute for Brain Science (AIBS) (Lein et al., 2007; Dong, 2008). This atlas contains Nissl stained microscopy slices for the whole brain, as well as most genes used in situ hybridization studies.

**A Cell Atlas for the Mouse Brain - PubMed Central (PMC)**

The Allen Mouse Brain Common Coordinate Framework (CCF) is a 3D reference atlas that has already undergone several revisions. The first version, CCFv1, was created to support whole brain gene expression mapping and searches (Lein et al., 2007

**The Allen Mouse Brain Common Coordinate Framework: A 3D ...**

By far the most widely used animal brain atlas for transgenic mice is the histological atlas of the mouse brain by Paxinos and Franklin. The new MRI/DTI atlas of the mouse brain will be directly compatible with the histological atlas (Paxinos and Franklin 4 th Ed., 2013).

**High Resolution MRI Atlas of the Mouse Brain - NeuRA**

This protein atlas of the mouse brain is a collaborative project between the human protein atlas project and department of neuroscience at the Karolinska Institute and is supported by SciLifeLab strategic (SFO) and national infrastructure funding. Relevant links and publications Mulder J et al, 2007.