

*A High Resolution Anatomical Atlas Of The Transcriptome In
Mouse Embryo*

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A High Resolution Anatomical Atlas

After ISH and automated microscopy image acquisition , expression patterns were manually annotated by expert anatomists using a revised version of the Edinburgh Mouse Atlas Project (EMAP) anatomy ontology, which includes 1,420 anatomical terms.

A High-Resolution Anatomical Atlas of the Transcriptome in ...

Citation: Diez-Roux G, Banfi S, Sultan M, Geffers L, Anand S, Rozado D, et al. (2011) A High-Resolution Anatomical Atlas of the Transcriptome in the Mouse Embryo. PLoS Biol 9(1): e1000582.

A High-Resolution Anatomical Atlas of the Transcriptome in ...

Abstract. This paper reports the availability of a high-resolution atlas of the adult rat. The atlas is composed of 9475 cryosectional images captured in 4600 × 2580 × 24-bit TIFF format, constructed using serial cryosection-milling techniques. Cryosection images were segmented, labelled and reconstructed into three-dimensional (3D)...

A high-resolution anatomical rat atlas - PubMed Central (PMC)

This study aims to provide a high-resolution atlas and use it as an anatomical framework to localize the gene expression data for mouse brain on postnatal day 0 (P0). A color Nissl-stained volume with a resolution of 13.3×50×13.3 μm³ was constructed and co-registered to a standard anatomical space defined by an averaged geometry of C57BL/6J P0 mouse brains.

Frontiers | A high-resolution anatomical framework of the ...

A High-Resolution Anatomical Atlas of the Transcriptome in the Mouse Embryo Graciana Diez-Roux¹, Sandro Banfi¹, Marc Sultan², Lars Geffers³, Santosh Anand¹, David Rozado², Alon Magen², Elena Canidio⁴, Massimiliano Pagani⁴✉, Ivana Peluso¹, Nathalie Lin-Marq⁵, Muriel Koch⁶, Marchesa Bilio¹, Immacolata Cantiello¹, Roberta Verde¹, Cristian De Masi¹, Salvatore A. Bianchi¹, Juliette

A High-Resolution Anatomical Atlas of the Transcriptome in ...

We identified 1,002 tissue-specific genes that are a source of novel tissue-specific markers for 37 different anatomical structures. The quality and the resolution of the data revealed novel molecular domains for several developing structures, such as the telencephalon, a novel organization for the hypothalamus, and insight on the Wnt network ...

A high-resolution anatomical atlas of the transcriptome in ...

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A High-Resolution Anatomical Atlas of the Transcriptome in the Mouse Embryo Graciana Diez-Roux¹, Sandro Banfi¹, Marc Sultan², Lars Geffers³, Santosh Anand¹, David Rozado², Alon Magen², Elena Canidio⁴, Massimiliano Pagani⁴✉, Ivana Peluso¹, Nathalie Lin-Marq⁵, Muriel Koch⁶, Marchesa Bilio¹, Immacolata Cantiello¹, Roberta Verde¹, Cristian De ...

A High-Resolution Anatomical Atlas of the Transcriptome in ...

A high-resolution probabilistic in vivo atlas of human subcortical brain nuclei. Sci. Data 5:180063 doi: 10.1038/sdata.2018.63 (2018).

A high-resolution probabilistic in vivo atlas of human ...

In recent years, high-throughput methods that collect such information at cellular resolution on a gene-by-gene basis have been developed. Of particular relevance was the development of high-throughput technology for RNA in situ hybridization (ISH) to map gene expression patterns on tissue sections [5] - [7] .

A High-Resolution Anatomical Atlas of the Transcriptome in ...

The Allen Mouse CCF includes a full-colour, high-resolution anatomical reference atlas accompanied

by a systematic, hierarchically organised taxonomy of mouse brain structures. Anatomical annotations in classical histological atlas plates were extracted to create a comprehensive volumetric reference atlas of the mouse brain.

HBP Atlases - Human Brain Project

The Open Anatomy Project is developing a system for distributing free, open, high-quality anatomy atlases and open-source software throughout the world.

The Open Anatomy Project | The Open Anatomy Project is ...

This paper reports the availability of a high-resolution atlas of the adult rat. The atlas is composed of 9475 cryosectional images captured in 4600 × 2580 × 24-bit TIFF format, constructed using serial cryosection-milling techniques. Cryosection images were segmented, labelled and reconstructed into three-dimensional (3D) computerized models.

A high-resolution anatomical rat atlas - Bai - 2006 ...

Thus, the generation of a high resolution, comprehensive catalogue of the changes in lung cellular composition and function in health and disease is expected to lead to development of novel cell and disease specific biomarkers and advancements in therapeutic strategies for lung disease. Cellular and Anatomical Complexity of the Human Lung

The Human Lung Cell Atlas - A high-resolution reference ...

Mouse Brain Connectivity Atlas. A brain-wide map of neural projections, including cell class-specific data. View Atlas. Reference Atlases. High resolution anatomical reference atlases and histology for mouse and human. View Atlases. Mouse Brain Atlas. A unique multimodal atlas of the adult mouse brain, featuring anatomic and genomic data. View ...

Brain Map - brain-map.org

The serotonin (5-hydroxytryptamine, 5-HT) system modulates many important brain functions and is critically involved in many neuropsychiatric disorders. Here, we present a high-resolution, multidimensional, in vivo atlas of four of the human brain's 5-HT receptors (5-HT1A, 5-HT1B, 5-HT2A, and 5-HT4) and the 5-HT transporter (5-HTT). The atlas is created from molecular and structural high ...

A High-Resolution In Vivo Atlas of the Human Brain's ...

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The quality and the resolution of the data revealed novel molecular domains for several developing structures, such as the telencephalon, a novel organization for the hypothalamus, and insight on the Wnt network involved in renal epithelial differentiation during kidney development.

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