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A High Resolution Anatomical Rat

Some scientists and groups of scientists have made progress on the anatomical rat atlas. But until now, these rat atlases have looked only at regional anatomy (Toga et al. 1995; Bard et al. 1998), or are of low resolution such as the computer tomography atlas (Montgomery et al. 2001). In this study, we have developed a high-resolution Sprague-Dawley (SD) rat atlas that covers the anatomy of the whole rat.

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

A high-resolution anatomical rat atlas A detailed anatomical rat atlas will benefit rat studies by providing precise structural information on the whole rat.

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The rat atlas also provides a framework for integrative study of the physiological and pathological phenotype of the rat, which may provide great insight into the relationship between the structure and function of the rat (Bard, 2005).

A high-resolution anatomical rat atlas, Journal of Anatomy ...

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.

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

A high-resolution anatomical rat atlas A detailed anatomical rat atlas will benefit rat studies by providing precise structural information on the whole rat. The rat atlas also provides a framework for integrative study of the physiological and pathological phenotype of the rat, which may provide great

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As a direct parallel, a rat computational phantom, the Visible Rat, was constructed based on 9475 cryosectional images with a pixel resolution of 4600 Å 2580 and per-bit depth of 24 in computer ...

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[PDF] A High Resolution Anatomical Rat Atlas

This paper reports the development of a high-resolution 3-D MRI atlas of the Fischer 344 adult rat brain. The atlas is a

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Atlas

60 μm isotropic image volume composed of 256 coronal slices with 71 ...

An MRI-Derived Neuroanatomical Atlas of the Fischer 344 ...

While qualitative and gross anatomical descriptions of the anatomy of the ICN have each been pursued, we here bring forth a comprehensive atlas of the entire rat ICN at single-cell resolution. Our work precisely integrates anatomical and molecular data in the 3D digitally reconstructed whole heart with resolution at the micron scale.

A Comprehensive Integrated Anatomical and Molecular Atlas ...

The image viewer gives access to high-resolution images of 104 coronal sections (Figure 3). The sections are organized according to serial numbers and stereotaxic coordinate values (bregma level) taken from a commonly used stereotaxic atlas (Paxinos and Watson, 2007). Anatomical landmarks

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are used to assign coordinate values to each section.

Frontiers | Digital Atlas of Anatomical Subdivisions and ...

In this study, high-resolution magnetic resonance angiography (MRA) of the spine region was performed in a rat model using a liposomal-Gd, which is known to remain within the bloodpool for an extended period. The imaging characteristics of this agent were compared to a conventional, Gd-DTPA.

High Resolution Vascular Imaging of the Rat Spine using ...

A high-resolution anatomical ontology of the developing murine genitourinary tract. ... The ultrastructure of the developing proximal tubule in the rat kidney. J Ultrastruct Res. 1975; 51:119-139. Larsson L, Maunsbach AB. The ultrastructural development of the glomerular filtration barrier in the rat kidney: a morphometric analysis.

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A high-resolution anatomical ontology of the developing ...

Study Design. Basic science study measuring anatomical features of the cervical and lumbar spine in rat with normalized comparison with the human. Objective. The goal of this study is to comprehensively compare the rat and human cervical and lumbar spines to investigate whether the rat is an appropriate model for spine biomechanics investigations.

Relevant Anatomic and Morphological Measurements of the ...

High-resolution Cerebral blood volume Local field potential Current source density Somatosensory cortex Rat High-resolution functional-magnetic-resonance-imaging (fMRI) has been used to study brain functions at in-creasingly finer scale, but whether fMRI can accurately reflect layer-specific neuronal activities is less well understood.

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Ultra high-resolution fMRI and electrophysiology of the ...

High Resolution Localization of Rab5, EEA1, and Nectin-3 to Tubulobulbar Complexes in the Rat Testis Arlo Adams
Department of Cellular and Physiological Sciences, Faculty of Medicine, The University of British Columbia, Vancouver, British Columbia, Canada

High Resolution Localization of Rab5, EEA1, and Nectin-3 ...

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 $13.3 \times 50 \times 13.3 \mu\text{m}^3$ 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 ...

The high resolution ($73 \times 73 \times 73 \mu\text{m}^3$)

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micro-CT data from the whole human heart, showing the 3D extent and position of the segmented right bundle branch (red in panel d) on the lateral aspect ...

High resolution 3-Dimensional imaging of the human cardiac ...

A. Anatomical mouse model Tissue heterogeneity and anisotropy of electrical conductivity have a profound effect upon induced electric fields in the brain.^{7,8} A high-resolution anatomically realistic adult mouse model has been obtained for this study. The model is derived from MRI data of a male OF1 type mouse, of length

Transcranial magnetic stimulation of mouse brain using ...

Four-element array coils and high field small animal MR scanners can be used to obtain functional MRI, also known as fMRI, at a high spatial resolution of $75 \times 75 \times 1000 \mu\text{m}^3$. The activation area ...

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High Resolution BOLD Functional MRI Provides New Insights ...

very high-field magnets. Alternatively, this study applied a novel approach to preparing hippocampi for high-resolution diffusion tensor imaging by surgically dissecting the anatomical structure of interest from perfusion-fixed rat brain. Similar to methods first described by Gaarskjaer (1978), the isolated hippocampi were

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