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Anatomical Rat Atlas - PubMed Central (PMC)

A high-resolution anatomical rat atlas Xueling Bai
The Key Laboratory of Biomedical Photonics of Ministry of Education-Hubei Bioinformatics and Molecular Imaging Key Laboratory, Huazhong

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University of
Science and
Technology,
Wuhan, People's
Republic of China

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Abstract. High-
resolution spin-
echo and inversion-
recovery pulse
sequences were

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employed. In addition, the apparent diffusion coefficients (ADCs) in longitudinal and transverse directions of the spinal cord were determined.

Anatomical MRI findings were confirmed in histological spinal cord tissue

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preparations.

Rat Anatomical Guide for Whole Body Imaging and MicroPET high-resolution anatomical MRI-derived mouse model consisting of 50 tissue types to accurately calculate induced electric field in the

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mouse brain.

Magnetic field measurements have been performed on the surface of the coil and compared with the calculations in order to validate the calculated magnetic and induced electric fields in the brain.

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A high-resolution anatomical rat atlas | Request PDF

A high-resolution anatomical rat atlas The atlas is composed of 9475 cryosectional images captured in $4600 \times 2580 \times 24$ -bit TIFF format, constructed using serial cryosection-milling

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techniques.

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

In this study, we explored the use of ultra high-resolution 3D anatomical MRI to resolve different layers ex vivo rat retina at a nominal

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resolution of

10x10x14 μm .

Multiple distinct bands of

alternating signal

intensities were

consistently

detected and

carefully compared

with similar

histological

sections. MRI and

histological layer

thicknesses were

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analyzed. Methods
Normal adult
Sprague Dawley
rats (250-300 g)
were euthanized
and eyes were
enucleated.

A high-resolution
physiological and
anatomical map of

...

Results and
discussion.

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Matrices up to 256 x 256 were obtained with a four-element array coil, resulting in 75 x 75 x 1000 μm 3 resolution. The activation becomes more resolved at this high resolution and allows the detection of sub-structures and shape in thalamus

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areas S1 and S2, as shown in Figure 3.

Figure 2.

Frontiers | A high-resolution anatomical framework of the ...
Animals and Experimental Treatments. Young adult male Sprague-Dawley rats (weighing from 164

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to 181 g for the c-Fos study, and from 187 to 209 g for the CRF study) were purchased from Harlan-Sprague Dawley (Indianapolis, IN) and housed at the Laboratory Animal Center of the Indiana University School of Medicine.

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Anatomical Rat MRI

High-Resolution MRI of Intact and Transected Rat Spinal Cord
Goodchild, A., Moon, E. A., & Pilowsky, P. (2003).
A high-resolution physiological and anatomical map of cardiovascular and respiratory nuclei in the ventral medulla of the rat.

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Clinical and Experimental Pharmacology and Physiology, 48-48.

High-Resolution MRI of Intact and Transected Rat Spinal ...

High Resolution MR-Elastography of In-Vivo Rat Brain – Understanding the Scaling Behaviour

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Anatomical Rat Atlas
of the Structures –
B. Larrat 1, R.

Sinkus , M. Tanter ,
and M. Fink

1Laboratoire Ondes
et Acoustique,
Paris, France

Introduction MR
Elastography (MRE)
represents a
unique tool to non-
invasively assess
the viscoelastic
properties of soft

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tissues.

HBP Atlases
Functional MRI
(fMRI) at a high
spatial resolution of
75 x 75 x 1000
 μm^3 can be
achieved using
high field small
animal MR
scanners and four-
element array
coils.

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Atlas
High Resolution MR-Elastography of In-Vivo Rat Brain ...

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. The complexity

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increases over time, since

anatomical and functional.

High Resolution BOLD Functional MRI Provides New Insights ...

Rat Atlas. The user selects a modality and an orientation from the panels on the left. At the

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bottom of the viewer is a graphical representation of the rat brain with a bar through it and a thumbnail image. Dragging the bar will scroll through the images, and releasing it will update the main panel on the right with a high-

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resolution image...

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

As a direct parallel, a rat computational phantom, the Visible Rat, was constructed based on 9475 cryosectional images with a pixel resolution of 4600

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A 2580 and per-bit depth of 24 in computer ...

Transcranial magnetic stimulation of mouse brain using ...

Read "High-Resolution MRI of Intact and Transected Rat Spinal Cord,

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Experimental
Neurology" on
DeepDyve, the
largest online
rental service for
scholarly research
with thousands of
academic
publications
available at your
fingertips.

Digital Atlas of
Anatomical

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Subdivisions and Boundaries of ... High-resolution spin-echo and inversion-recovery pulse sequences were employed. In addition, the apparent diffusion coefficients (ADCs) in longitudinal and transverse directions of the spinal cord were

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determined.

Anatomical MRI findings were confirmed in histological spinal cord tissue preparations.

A High Resolution Anatomical Rat Abstract. This paper reports the availability of a

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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

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reconstructed into three-dimensional (3D)...

c-fos gene expression is increased in the paraventricular ...
Rat anatomy guide for whole body imaging, microPET and autoradiography

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Ultra High-Resolution 3D Anatomical MRI of the Ex Vivo ...

Digital Atlas of Anatomical Subdivisions and Boundaries of the Rat Hippocampal Region Lisa J.

Kjonigsen , 1

Trygve B.

Leergaard , 1

Menno P. Witter , 2,

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3 and Jan G. Bjaalie
1, * 1 Centre for
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and Neuroscience,
Institute of Basic
Medical Sciences,
University of Oslo,
Oslo, Norway

Insights in the rat
brain by high
resolution BOLD ...
This study aims to
provide a high-

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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

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to a standard anatomical space defined by an averaged geometry of C57BL/6J P0 mouse brains.

High-Resolution MRI of Intact and Transected Rat Spinal Cord
The Allen Mouse CCF includes a full-colour, high-

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resolution
anatomical
reference atlas
accompanied by a
systematic,
hierarchically
organised
taxonomy of
mouse brain
structures.

Anatomical
annotations in
classical
histological atlas

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plates were extracted to create a comprehensive volumetric reference atlas of the mouse brain.

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