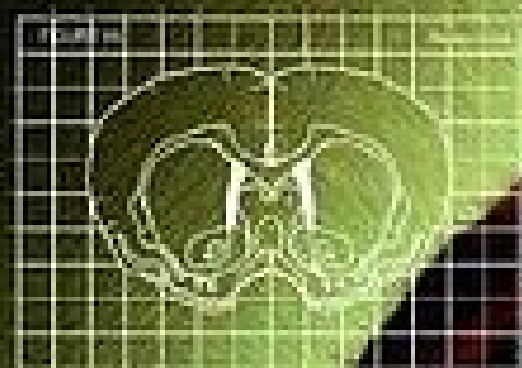




A Stereotaxic Atlas of

The Golden Hamster Brain

LAWRENCE P. MORIN AND RUTH I. WOOD

Stereotaxic Atlas Of The Golden Hamster Brain

Xiaolong Qi



Stereotaxic Atlas Of The Golden Hamster Brain:

A Stereotaxic Atlas of the Golden Hamster Brain Lawrence P. Morin, Ruth I. Wood, 2001-03-12 This atlas provides a look at the golden hamster brain in stereotaxic coordinates which is the grid that is used much like a map to ensure accuracy within the lab It provides a pictorial synopsis of what is currently known about the structure and function of the brain and provides a consistent anatomical definition and nomenclature labeling for areas in the brain This is the first atlas to preset the golden hamster brain in stereotaxic coordinates The authors use the brain of an adult male golden hamster the most widely utilized hamster in neuroscience research The brains of two different hamsters are used The first brain is sectioned and stained using cresyl violet acetylcholinesterase Sudan black and NADPH diaphorase The second brain is stained using cresyl violet luxol fast blue serotonin immunoreactivity and GABA benzodiazepine receptor immunoreactivity Schematic Stereotaxic Atlas of the Golden Hamster Brain Charles W. Malsbury, 1977 *A Stereotaxic Atlas of the Brain of the Golden Hamster "Mesocricetus Auratus"* Orville A. Smith, Charles N. Bodemer, 1963 **A stereotaxic atlas of the brain of the golden hamster (Mesocricetus auratus), [by] K.M.Knigge and S.A.Joseph** Karl Max Knigge, Shirley A. Joseph, **A Stereotaxic Atlas of the Brain of the Golden Hamster** Karl Max Knigge, Shirley A. Joseph, 1963 **A Stereotaxic Atlas of the Brain of the Golden Hamster "Mesocricetus Auratus"** Karl M. Knigge, 1963 *Paxinos and Franklin's the Mouse Brain in Stereotaxic Coordinates, Compact* Keith B.J. Franklin, George Paxinos, 2019-05-19 Paxinos and Franklin's The Mouse Brain in Stereotaxic Coordinates Compact Fifth Edition is the compact version of the most widely used and cited atlas of the mouse brain in print It emulates in design and accuracy Paxinos and Watson's The Rat Brain in Stereotaxic Coordinates the most cited publication in neuroscience The compact edition provides the coronal plates and diagrams of the full mouse atlas in a smaller more convenient spiral format and at a student friendly price High resolution digital photographs of the coronal plane of section from the full 5th edition complement the coronal drawings Unique to the compact it includes an introduction to the use of the atlas in stereotaxic surgery Contains 100 coronal diagrams that were fully revised for this new edition Includes 100 coronal photographic plates produced from directly scanned very high resolution images of the biological sections done at the Allen Institute Provides a beginner's guide with 25 pages on conducting stereotaxic surgery and how to use the atlas Presents surface views of the brain with labels over the major structures Uses the best ontology tree nomenclature based on the development of the brain with universal applications across mammals The Central Nervous System of Vertebrates Rudolf Nieuwenhuys, Hans J. ten Donkelaar, Charles Nicholson, 2014-11-14 This comprehensive reference is clearly destined to become the definitive anatomical basis for all neuroscience research The book provides a complete overview and comparison of the structural organization of all vertebrate groups ranging from amphioxus and lamprey through fishes amphibians and birds to mammals The large specialised section of the work devoted to the CNS of the various vertebrate groups is preceded by introductory chapters on neurons cell masses fibre tracts morphogenesis

methodology and techniques Although focusing on structure the authors provide functional correlations throughout This monumental work is and will remain unique the only source of such brilliant illustrations at both the macroscopic and microscopic levels **MRI/DTI Atlas of the Human Brainstem in Transverse and Sagittal Planes** George Paxinos,Teri Furlong,Ken Ashwell,Kristie Smith,Evan Calabrese,G. Allan Johnson,2023-03-02 Selected for Doody s Core Titles 2024 in Neuroscience MRI DTI Atlas of the Human Brainstem in Transverse and Sagittal Planes presents a detailed view of the human brainstem in DTI MRI It is the first ever MRI or histological atlas to present detailed diagrams of sagittal views of the brainstem Presenting data of unprecedented quality images are juxtaposed with detailed diagrams in the transverse and sagittal planes The atlas features a 50 micron resolution for the GRE and 200 microns for the FAC and DWI 8000 times higher than that seen in a clinical MRI and 1000 times higher than that seen in a clinical DTI scan all based on one brain This atlas is important for neuroscientists neurosurgeons pathologists anatomists neurophysiologists radiologists radiotherapists e g for cyberknife guidance and graduate students in neuroscience Presents the first ever detailed MRI DTI atlas on the human brainstem Discusses primary data to help researchers identify brainstem structures in their own preparations from neuroanatomical physiological neuropharmacological and gene expression studies Accompanies the gold standard reference on the neuroanatomy of the human nervous system for neuroscientists and experimental psychologists Includes the Expert Consult eBook version that is compatible with PC Mac and most mobile devices and eReaders thus allowing readers to browse search and interact with content **MRI/DTI Atlas of the Rat Brain** George Paxinos,Charles Watson,Evan Calabrese,Alexandra Badea,G. Allan Johnson,2015-05-28 MRI DTI Atlas of the Rat Brain offers two major enhancements when compared with earlier attempts to make MRI DTI rat brain atlases First the spatial resolution at 25 m is considerably higher than previous data published Secondly the comprehensive set of MRI DTI contrasts provided has enabled the authors to identify more than 80% of structures identified in The Rat Brain in Stereotaxic Coordinates Ninety six coronal levels from the olfactory bulb to the pyramidal decussation are depicted Delineations primarily made on the basis of direct observations on the MRI contrasts Each of the 96 open book pages displays four items top left the directionally colored fractional anisotropy image derived from DTI DTI FAC top right the diffusion weighted image DWI bottom left the gradient recalled echo GRE and bottom right a diagrammatic synthesis of the information derived from these three images plus two additional images which are not displayed ARDC and RD This is repeated for 96 coronal levels which makes the levels 250 m apart The FAC images are shown in full color The orientation of sections corresponds to that in Paxinos and Watson s The Rat Brain in Stereotaxic Coordinates 7th Edition 2014 The images have been obtained from 3D isotropic population averages number of rats 5 All abbreviations of structure names are identical to the Paxinos Watson histologic atlas

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