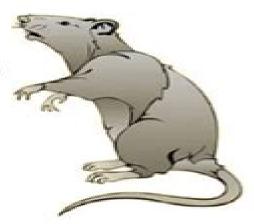
Virtual Rat Dissection Guide

Introduction

In this virtual laboratory exercise, the anatomy of the rat will be examined in some detail. By the end of the lab you should know the anatomy and physiology of the rat fairly well.

The classification of the Rat (Rattus norvegicus)

Kingdom Animalia Phylum Chordata Subphylum Vertebrata Class Mammalia Order Rodentia Family Muridae Genus Rattus Species norvegicus



Background Information

The lab books and diagrams available to you are supplemental. You are expected to follow the directions in this lab. Failure to do so will result in a 0 for that day's grade. You will be held responsible for being able to locate all the structures. You are expected to have exhausted all possibilities in attempting to locate structures before asking for assistance. Using the available material, instructions and diagrams, most students will be able to locate many structures for themselves. If after an earnest effort, you cannot find a structure, ask for assistance. Remember, this is a learning experience; it is quite permissible to discuss and observe other students' specimens. Be sure to look at animals of the opposite sex; you will be responsible for both sexes on the lab practical.

The rat is a vertebrate, which means that many aspects of its structural organization are common with all other vertebrates, including man. The similarity of structures among related organisms shows evidence of common ancestry. In a way, studying the rat is like studying a human. As the theme of this lab, ask yourself: for every structure observed in the rat, there is an equivalent structure in your own body - what is the structure and where is it located.

As the second theme of this lab, pay particular attention to the relationships among organs and groups of organs. Structural parts are not "just there" in random locations. Their specific layout within the body contributes to making certain functions possible. Therefore, for every structure seen, you should determine the following:

- What organ system it belongs to
- How it is connected with other components
- Its general function
- Its specific function (if applicable).

Virtual Rat Dissection Guide

David W. Marshak, Judith Mosinger Ogilvie, Chai-An Mao, Christophe P. Ribelayga

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Animal Welfare Information Center Bulletin .2000 **Animal Welfare Information Center Newsletter**, 2000 Harkness and Wagner's Biology and Medicine of Rabbits and Rodents John E. Harkness, Patricia V. Turner, Susan VandeWoude, Colette L. Wheler, 2013-03-22 Harkness and Wagner's Biology and Medicine of Rabbits and Rodents Fifth Edition is a practical reference in small mammal husbandry and health encompassing the fields of laboratory animal medicine and pet practice Part of ACLAM's series of laboratory animal books this text offers concise but complete coverage on rabbits and the most common rodent species with an emphasis on biology clinical procedures clinical signs and diseases and conditions By providing useful accessible assessment and diagnostic information Harkness and Wagner's Biology and Medicine of Rabbits and Rodents aids the practitioner in diagnosing and treating conditions in small mammals Harkness and Wagner's Biology and Medicine of Rabbits and Rodents Patricia V. Turner, Colette L. Wheler, Hugues Beaufrère, Niora Fabian, John E. Harkness, 2025-08-19 Practical reference on small mammal husbandry and health now with full color clinical photographs throughout The Sixth Edition of Harkness and Wagner's Biology and Medicine of Rabbits and Rodents provides a thorough update to the classic reference on small mammal health and husbandry now with full color clinical photographs throughout Part of ACLAM's series of laboratory animal books the book is a comprehensive practical guide to caring for rabbits guinea pigs hamsters gerbils mice rats and chinchillas Emphasizing biology contemporary husbandry diagnostics and clinical procedures clinical signs and diseases and conditions the book is equally useful in the research companion animal practice or food animal setting New topics for the Sixth Edition include environmental monitoring for rodent health assessments behavioral management considerations for optimizing animal health enhanced pain assessment approaches as well as considerations for creating a welfare friendly small mammal practice. The Sixth Edition also updates common therapeutics analgesics anesthetics and blood collection methodology disease biology husbandry diagnostic modalities and references and covers new techniques for creating and modifying genetically engineered rodents Harkness and Wagner's Biology and Medicine of Rabbits and Rodents includes information on General husbandry and disease prevention covering equipment needs factors predisposing to disease and occupational health and safety issues Clinical procedures covering hematology clinical chemistry urinalysis surgery post operative care dentistry ophthalmology and imaging Clinical signs and differential diagnoses covering astroviruses hepatitis E and leporid herpesvirus 4 for rabbits and antimicrobial resistance for commercial rabbits Serologic testing and diagnostic sample submission covering newer methodologies environmental monitoring and considerations for large rodent feeder breeder operations The Sixth Edition of Harkness and Wagner's Biology and Medicine of Rabbits and Rodents is an essential reference for veterinary professionals dealing with small mammal species in research or practice settings as well as veterinary students interested in small animals comparative medicine or laboratory animal medicine **Animal Experimentation** Vaughan Monamy, 2017-02-23 This updated third

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also details all types of brain dissections How to build a Microneurosurgical Lab How to prepare models for microsurgical training How to start the Lab Training How to dissect the important anatomical regions of the brain All of these questions are discussed in the 15 didactic chapters and are richly illustrated by images More than an educational manual this is a fascinating step by step guide to starting the anatomical dissection of the brain and for microsurgical training From basic to advanced this work reflects the authors extensive experience making it an indispensable tool for students and practitioners interested in understanding the brain in depth Development, structure and function of vertebrate retinas: A virtual festschrift for Prof. Steve Massey David W. Marshak, Judith Mosinger Ogilvie, Chai-An Mao, Christophe P. Ribelayga, 2024-09-19 This is a remarkable time to study the vertebrate retina either as a model for the brain or to understand the first steps in vison We have known about the diversity of retinal neurons and glia for more than one hundred years and we are now extending these findings and making new discoveries about retinal cell types by analyzing gene expression in single cells We have made significant progress toward our ultimate goals of describing the neural circuits in the retinas at the level of connections between identified populations of neurons and understanding neuronal and glial cell function at the molecular level We have also made great strides toward understanding retinal development and the etiology of retinal diseases Physiologists are now using more realistic stimuli and modern analytical methods to analyze the mechanisms underlying light responses of retinal neurons and this has led to more accurate computational models of neural circuits in the retina My colleague at the McGovern Medical School in Houston Steve Massey has made many important contributions to this field both as a researcher and as a mentor and he is planning his retirement Judith Ogilvie Christophe Ribelayga Chai an Mao and I will dedicate this issue to him and plan to publish some of his latest work This Research Topic will include mini reviews and brief communications about neurons and neural circuits in vertebrate retinas The scope will be very broad including anatomical physiological psychophysical and computational approaches to this topic Potential topics include but are not restricted to Development morphology and synaptic connections of neuronal types Light responses spontaneous activity and membrane properties of retinal neurons Gene expression and other aspects of cell biology of identified retinal neurons Release of neurotransmitters and modulators and their effects in the retina Structure and function of electrical synapses in the retina Neural circuits that mediate responses to color contrast and movement Roles of neuroglia in retinal development homeostasis and light responses Contributions of neural circuits in the retina to visual perception Evolution of neuronal types and neural circuits in the retina Novel techniques for analyzing retinal neurons and neural circuits Non invasive methods to analyze retinal structure and function Etiology of retinal diseases and potential new therapies Directions for future research on the vertebrate retina Natural Science in Schools .1975 Organization of the White Matter Anatomy in the Human Brain Laurent Petit, Silvio Sarubbo, 2020-01-10 Surgical anatomy of the sacral plexus and its branches R. Shane Tubbs, Joe Iwanaga, 2020-05-11 The first work of its kind devoted to the pelvis and

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