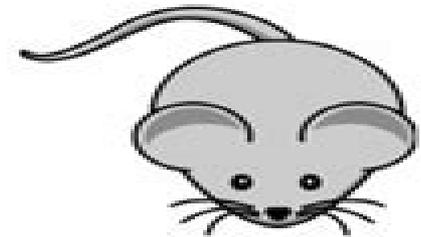


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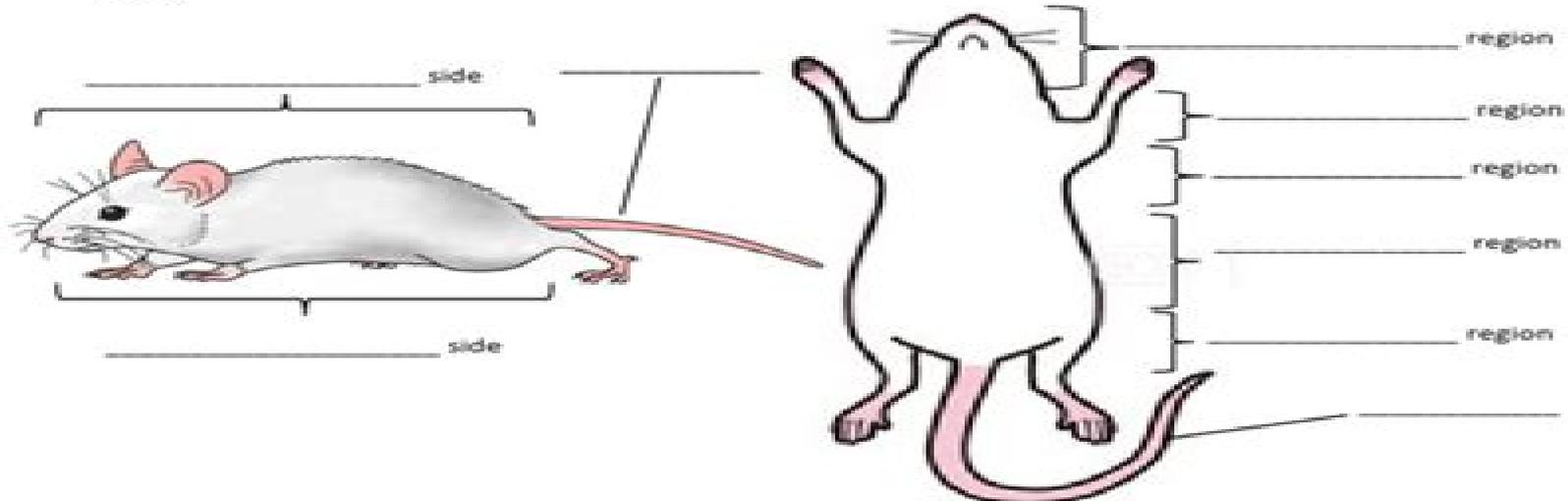
# Field Mouse Dissection

The field mouse is a small mammal that has many anatomical structures that are similar to human structures, however much smaller! Because the mouse is a mammal like humans, it is warm blooded and has a four-chambered heart. It is also a vertebrate animal, like humans, frogs, and fish, and therefore has a spinal cord connected to its brain. In this lab, you will observe both the external and internal anatomy of a field mouse to observe the best representation of human anatomy.



## Day 1- External Anatomy and Muscular System

1. Obtain your mouse. Observe the following anatomical regions: the ventral side (belly), the dorsal side (back), the cranial region (head), pectoral region (area where front legs attach), thoracic region (chest area), abdominal region (belly area), pelvic region (area where the back legs attach), tail [...the tail...obviously]. Label the regions and areas on the two diagrams below.



2. Make the following external anatomy observations. Then label them on the diagram on the next page.
  - a. The mouse has a fur (a mammalian trait) and has sensory hairs (whiskers) located on the face. These are called vibrissae.
  - b. The ears are composed of the external part, called the pinna, and the auditory meatus, the ear canal.
  - c. Observe the eye of your mouse. Mice and other rodents have large pupils causing their eyes to appear black. Locate the nictitating membrane found at the inside corner of the eye. Like the frog, this membrane can be drawn across the eye for protection, however the frog's nictitating membrane is much thicker and more obvious than the mouse's.
  - d. Next sex your mouse. First locate the anus on the ventral side of the mouse near the base of the tail. Determine if testes (male gonads) are present. If yes, then your mouse is male; if no, then your mouse is most likely female.

# Mouse Dissection Lab Report

**Wolfgang Guggemos**



## Mouse Dissection Lab Report:

The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals Robert C. Hubrecht, James Kirkwood, 2010-01-19 The seminal reference on the care of laboratory and captive animals The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals is a must have for anyone working in this field The UFAW Handbook has been the definitive text since 1947 Written for an international audience it contains contributions from experts from around the world The book focuses on best practice principles throughout providing comprehensive coverage with all chapters being peer reviewed by anonymous referees As well as addressing the husbandry of laboratory animals the content is also of great value to zoos and aquaria Changes for the eighth edition Revised and updated to reflect developments since publication of the previous edition New chapters on areas of growing concern including the 3Rs phenotyping statistics and experimental design welfare assessment legislation training of people caring for lab animals and euthanasia All material combined into one volume for ease of reference This book is published on behalf of UFAW The Universities Federation for Animal Welfare with whom we also publish the UFAW Wiley Blackwell Animal Welfare Book Series This major series of books provides an authoritative source of information on worldwide developments current thinking and best practice in the field of animal welfare science and technology For details of all of the titles in the series see <http://www.wiley.com/go/uafw> **Annual Report** National Cancer Institute (U.S.). Division of Cancer Treatment, **Annual Report - National Cancer Institute, Division of Cancer Treatment** National Cancer Institute (U.S.). Division of Cancer Treatment, **The Laboratory Rat** Mark A. Suckow, F. Claire Hankenson, Ronald P. Wilson, Patricia L. Foley, 2019-11-10 The third edition of The Laboratory Rat features updated information on a variety of topics including rats as research models for basic and translational research in areas such as genomics alcoholism diabetes metabolic syndrome obesity neuroscience spinal cord injury traumatic brain injury regenerative medicine and infectious disease New information related to the husbandry and veterinary care of rats is provided including topics related to nutrition reproduction anesthesia and surgery infectious and noninfectious disease and the care of surgical and other fragile models It is a premier source of information on the laboratory rat this book will be of interest to veterinary and medical students senior graduate students postdocs and researchers who utilize animals in biomedical research New chapters on the care of surgical and fragile models and on the use of rats in research areas such as alcoholism regenerative medicine spinal cord injury traumatic brain injury and others are included All chapters were written by scientific and veterinary experts This book condenses information from many sources on topics related to the care and use of rats in research It is the premier source of information on the laboratory rat **Annual Scientific Report** Howard Hughes Medical Institute, 1994 **Genome Research**, 2008 **Comparative Anatomy and Histology** Piper M. Treuting, Suzanne M. Dintzis, Kathleen S. Montine, 2017-08-29 The second edition of Comparative Anatomy and Histology is aimed at the new rodent investigator as

well as medical and veterinary pathologists who need to expand their knowledge base into comparative anatomy and histology It guides the reader through normal mouse and rat anatomy and histology using direct comparison to the human The side by side comparison of mouse rat and human tissues highlight the unique biology of the rodents which has great impact on the validation of rodent models of human disease Offers the only comprehensive source for comparing mouse rat and human anatomy and histology through over 1500 full color images in one reference work Enables human and veterinary pathologists to examine tissue samples with greater accuracy and confidence Teaches biomedical researchers to examine the histologic changes in their model rodents Experts from both human and veterinary fields take readers through each organ system in a side by side comparative approach to anatomy and histology human Netter anatomy images along with Netter style rodent images

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**Comprehensive Management of Head and Neck Tumors** Stanley E. Thawley,1999 The 2nd Edition of this superb text excels at organizing a very complex subject the management of head and neck tumors into a comprehensive reference source Thoroughly updated and revised this edition contains all the essential information without repetition or

superfluous material Features in depth coverage of tumors of the ear the nasal cavity and paranasal sinuses the oral cavity the pharynx the larynx the salivary glands the skin the neck the jaw the thyroid and parathyroid glands the trachea and more

*Heart Disease* Eugene Braunwald, Douglas P. Zipes, Peter Libby, 2001 With 30 completely new chapters and exhaustive updates this edition of this cardiology masterwork represents the most extensive revision yet Hundreds of world authorities synthesize remarkable developments from the newest findings in molecular biology and genetics through the latest imaging modalities interventional procedures and medications **Medical Imaging**, 2002 *InCider*, 1992 *Annual Report* University of California, Los Angeles. Molecular Biology Institute, 2009

## Reviewing **Mouse Dissection Lab Report**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Mouse Dissection Lab Report**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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