

## RAT DISSECTION GUIDE

Follow this guide and use the photos to assist you in dissecting the rat. See the final page of this guide for a checklist of structures required to identify.

### EXTERNAL STRUCTURES

1. Examine the rat specimen and note the basic body plan and external features. The rat's body is divided into the anterior head connected to the trunk by a short neck and a posterior tail. Rats use all four limbs for locomotion and therefore have similar anatomical features on all limbs. Each digit has a claw at the tip and walking pads in the palm area. One of the distinguishing mammalian features of the rat is the hair covering most of the body. While male and female rats have paired mammary glands, they are not visible in male rats.
2. Note the cone-shaped head with elongated face. On the head find the **eyes** and **ears**. The eyes have upper and lower eyelids and a nictitating membrane, found on the medial portion of the eye beneath the two outer lids. Observe the external ear skin fold of each ear called the pinna, which aids in directing sound waves to the external ear opening. Locate the long sensory hairs, called **vibrissae** (whiskers), on the head which provide the rat with a very effective sense of touch (Figure 1).

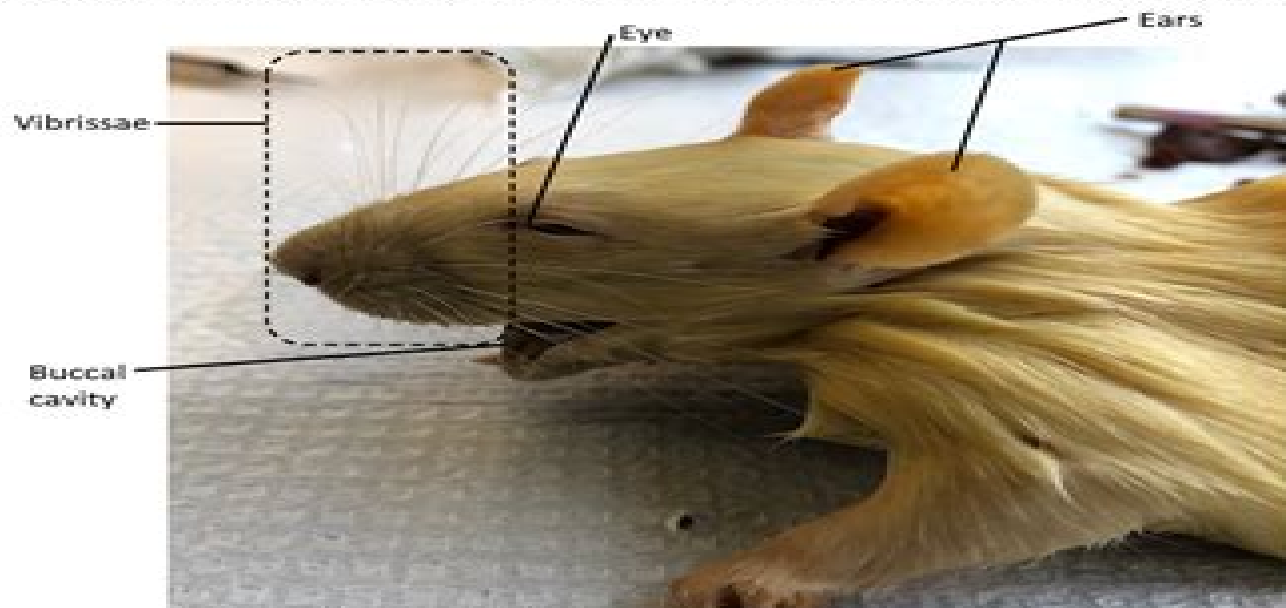


Figure 1. The head of the rat.

# Rat Dissection Guide High School

**Michael P. Schenk, David G. Smith**



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**Rat Dissection Manual** Bruce D. Wingerd,1988 Biology ,1998 **Animal Welfare Information Center Bulletin** ,2000 *Animal Welfare Information Center Newsletter* ,2000 **Biology/science Materials** Carolina Biological Supply Company,1991 *Anatomy and Physiology for the Manual Therapies* Andrew Kuntzman, Gerard J. Tortora,2009-08-17 *Anatomy Physiology for the Manual Therapies* 1e is designed to meet the specific needs of students preparing for careers in the manual therapies such as massage therapy and careers as physical therapy assistants This book provides the most appropriate depth of coverage for each body system in both narrative and visuals and by including relevant applications linking the content to situations they will face in their careers **Electricity and Magnetism in Biology and Medicine** Ferdinando Bersani,2012-12-06 In the last few decades the research on bioelectromagnetics has expanded worldwide About one thousand researchers are now working in the field in a variety of institutions throughout the world including medical biological engineering and technical laboratories and protection agencies After many years of research a clear picture is now emerging Initially the research was mainly interested in the therapeutic applications of ELF electric and magnetic fields and the RF range was mainly taken into consideration with respect to thermal effects only Then the growing body of biological effects of ELF fields on cells and biological tissues particularly for the repair processes in bone have drawn the attention of researchers to non thermal effects ranging from static fields to microwaves A specific field of interest that has been the object of a large debate in the last twenty years has been the potential health risk associated with electric power production and distribution and more recently with domestic and industrial appliances In the last few years the explosion of the market for cellularphones has highlighted the issue of possible health dangers related to their use and to the widespread presence of base stations The first World Congress on Electricity and Magnetism in Biology and Medicine was held in Orlando Florida in 1992 and collected the widest amount of contributions from almost all the major researchers involved in the field

*Carolina Science and Math* Carolina Biological Supply Company,2003 Dissection Guide & Atlas to the Rat Michael P. Schenk,David G. Smith,2001-01-01 Superior full color photographs and illustrations distinguish this manual from others This dissection guide and atlas provides carefully worded directions that allow students to learn basic mammalian anatomy through the use of a rat specimen Great care has gone into the preparation of accurate and informative illustrations and the presentation of high quality color photographs and photomicrographs The text is clearly written and dissection instructions are set apart from the text to assist students in the lab Each chapter begins with a list of objectives and tables are utilized to summarize key information The dissection guide is published in loose leaf three hole drilled format for convenient use in the laboratory *Cancer Research* ,1993 Resources in Education ,1999 Teaching Science Online Dietmar Kennepohl,2023-07-03 With the increasing focus on science education growing attention is being paid to how science is taught Educators in science and science related disciplines are recognizing that distance delivery opens up new

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Explains how traditional teaching testing and schooling developed Describes a more powerful approach to education that engages student brains much more effectively Shows how great schools and ordinary people from around the world use this guided experience approach Explains why public education resists change no matter what research proves Making Connections Renate Nummela Caine, Geoffrey Caine, 1994 Explains to educators the neuropsychological functions of the brain during learning and how the brain and learning are affected by health stress and teaching approaches Also suggests how the information can be used to help design and run more effective learning experiences for students Annotation copyright by Book News Inc Portland OR Once Upon a Life Science Book: 12 Interdisciplinary Activities to Create Confident Readers Jodi Wheeler-Toppen, 2010 Reading skills and life science come together in this engaging new book for middle school teachers Once Upon a Life Science Book makes it easy for teachers to improve their students reading abilities and teach science content simultaneously through clearly outlined inquiry based lessons Author Jodi Wheeler Toppen offers science activities for students and explains how these activities relate to the National Science Education Standards Topics as varied as the cell cycle skeletal and muscular systems genetics and food chains are covered in a concise manner that will appeal to teachers and students alike She doesn't stop there however She follows these activities with reading strategies such as comprehension coding chunking and previewing diagrams and illustrations that students can apply to science lessons and other subjects The reading passages on science content are more student friendly and easier to follow than typical textbooks which might not provide the background knowledge or connections that students need to learn science content With this interdisciplinary volume teachers can help students learn the science in a straightforward manner and develop strategies to improve their reading a win win that will delight time strapped educators **Animal Subjects** Jodey Castricano, 2008-05-20 Although Cultural Studies has directed sustained attacks against sexism and racism the question of the animal has lagged behind developments in broader society with regard to animal suffering in factory farming product testing and laboratory experimentation as well in zoos rodeos circuses and public aquariums The contributors to Animal Subjects are scholars and writers from diverse perspectives whose work calls into question the boundaries that divide the animal kingdom from humanity focusing on the medical biological cultural philosophical and ethical concerns between non human animals and ourselves The first of its kind to feature the work of Canadian scholars and writers in this emergent field this collection aims to include the non human animal question as part of the ethical purview of Cultural Studies and to explore the question in interdisciplinary terms

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