

RAT DISSECTION PRE LAB

Introduction:

The rat is a vertebrate, which means that many aspects of its structural organization are common with all other vertebrates. In a way, studying the rat is like studying a human.

As the leading theme of this lab, remind 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 leading theme, 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/specific function

Identify the following areas on the rat at the right:

A	
B	
C	
D	
E	

Dorsal

Ventral

Anterior

Posterior

Caudal - toward the tail end

Lateral - to the side

The rat's body is divided into six anatomical regions. Identify the following regions on the rat diagram at the right:

cranial region - head

cervical region - neck

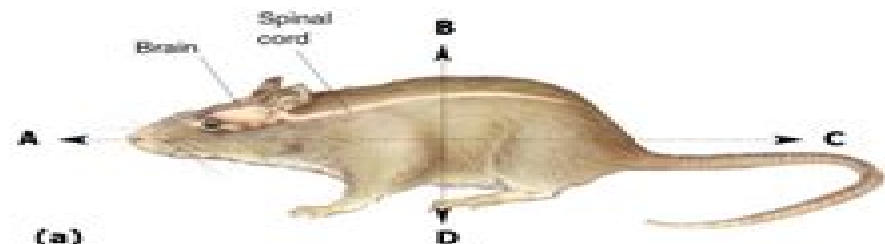
pectoral region - area where front legs attach

thoracic region - chest area

abdomen - belly

pelvic region - area where the back legs attach

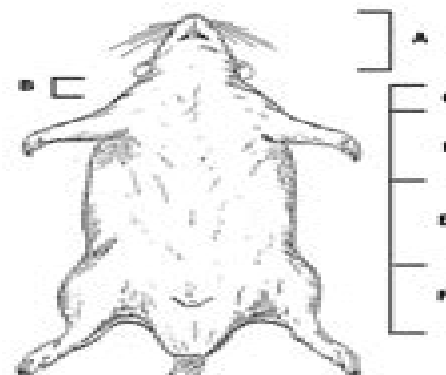
A	
B	
C	
D	
E	
F	



(a)



(b)



Analysis Questions For Rat Dissection Answer Key

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Cochrane, Bernard Kerfoot, Judith
Thomas**



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Quantitative Functional Brain Imaging with Positron Emission Tomography Richard E. Carson, Peter Herscovitch, Margaret E. Daube-Witherspoon, 1998-09-08 This book presents the latest scientific developments in the field of positron emission tomography PET dealing with data acquisition image processing applications statistical analysis tracer development parameter estimation and kinetic modeling It covers improved methodology and the application of existing techniques to new areas The text also describes new approaches in scanner design and image processing and the latest techniques for modeling and statistical analyses This volume will be a useful reference for the active brain PET scientist as well as a valuable introduction for students and researchers who wish to take advantage of the capabilities of PET to study the normal and diseased brain Authored by international authorities in PET Provides the latest up to date techniques and applications Covers all fundamental disciplines of PET in one volume A comprehensive resource for students clinicians and new PET researchers **Laboratory Manual for Human Biology** Bert Atsma, Sandra Hsu, 2002 A variety of approximately 30 lab activities to complete any human biology course Current Trends of Insect Physiology and Population Dynamics: Modeling Insect Phenology, Demography, and Circadian Rhythms in Variable Environments Petros T. Damos, Sibylle C. Stoeckli, Alexandros Rigas, 2018-06-12 The current eBook collection includes substantial scientific work in describing how insect species are responding to abiotic factors and recent climatic trends on the basis of insect physiology and population dynamics The contributions can be broadly split into four chapters the first chapter focuses on the function of environmental and mostly temperature driven models to identify the seasonal emergence and population dynamics of insects including some important pests The second chapter provides additional examples on how such models can be used to simulate the effect of climate change on insect phenology and population dynamics The third chapter focuses on describing the effects of nutrition gene expression and phototaxis in relation to insect demography growth and development whilst the fourth chapter provides a short description on the functioning of circadian systems as well as on the evolutionary dynamics of circadian clocks Tooth Enamel V Ronald W. Fearnhead, 1989 Tooth Enamel Research: Enamel 10 and beyond Pamela Den Besten, Stefan Habelitz, Catherine Chaussain, Michael Lansdell Paine, Elia Beniash, Rodrigo S. Lacruz, Agnes Bloch-Zupan, Wendy J. Shaw, Henry Margolis, Meerim K. Nurbaeva, 2023-11-20 The Research Topic will host an overview of the most recent knowledge on enamel issued from a group of international experts who gathered at the 10th International Symposium on Dental Enamel Enamel X The Topic will include manuscripts describing original data short communication and reviews In addition the Topic will host abstracts and panel discussions presented at the Enamel X meeting to highlight changing paradigms unsolved and challenging questions as well as translational challenges Bringing together physics chemistry biochemistry and development and differentiation contributions to this Topic will focus on the unique architecture of enamel from nano to macro scale and the dynamic molecular interactions with lead to extracellular self assembly and

mineralization This knowledge will open a window into innovative bioinspired treatment and materials for tissue repair and regeneration Tissue specific networks and pathways shared with a number of biological systems clock genes epithelial polarization ion handling cell niche dynamics and cell signaling will also be explored This will give an overall picture of the multiple acellular cellular and organismal essentially transgenic mice processes actively investigated in the enamel field Similarly lessons from isolated or syndromic inherited and acquired enamel defects obtained using cutting edge cell and matrix omics will establish the emerging genomic framework determining enamel quality Tooth enamel defects reflect historical and present gene environment interactions in the animal and human condition such as climate nutrition pollutants or fluoride exposures This last fact is highly relevant in medicine and public health since poor tooth quality and mineral defects are one of the first human worldwide pathologies

Teaching Science Tony Liversidge, Matt Cochrane, Bernard Kerfoot, Judith Thomas, 2009-06-30 Reflective practice is at the heart of effective teaching and this book helps you develop into a reflective teacher of Science Everything you need is here guidance on developing your analysis and self evaluation skills the knowledge of what you are trying to achieve and why and examples of how experienced teachers deliver successful lessons It includes advice about obtaining your first teaching post and about continuing professional development The book shows you how to plan creative lessons how to make good use of resources and how to assess pupils progress effectively Each chapter contains points for reflection which encourage you to break off from your reading and think about the challenging questions that you face as a new teacher The book comes with access to a companion website www.sagepub.co.uk/secondary where you will find Videos of real lessons so you can see the skills discussed in the text in action Links to a range of sites that provide useful additional support Extra planning and resource materials If you are training to teach science this book will help you to improve your classroom performance by providing you with practical advice but also by helping you to think in depth about the key issues It also supplements guidance on undertaking a research project with examples of the research evidence that is needed in academic work at Masters level essential for anyone undertaking an M level PGCE

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Annals of Ophthalmology, 1899 Anthony's Textbook of Anatomy & Physiology Gary A. Thibodeau, Kevin T. Patton, 1994 *Appletons' Annual Cyclopaedia and Register of Important Events*, 1898 Appletons' Annual Cyclopædia and Register of Important Events of the Year, 1898 **Appletons' Annual Cyclopedia and Register of Important Events**, 1898 **The Software Encyclopedia 2001**, 2001 **A.M.A. Archives of Pathology**, 1957 *Neuroscience Letters*, 2004 An international multidisciplinary journal devoted to the rapid publication of basic research in the brain sciences

The New York Times Book Review, 1989 **The Philadelphia Medical Journal** George Milbry Gould, James Hendrie

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