

Lab 5: Skeletal and Muscular Systems

LABORATORY OBJECTIVES

- Identify a male versus a female skeleton
- Identify the bones that make up the human body
- To investigate articulations and synovial joint movement
- To investigate muscles and bones working together-using dissection of a chicken wing
- muscle fatigue



INTRODUCTION:

Our skeletal and muscular systems work together to support our bodies and allow us to move in the various ways we do. The skeletal system also does other important things for our bodies; it protects our soft body parts, produces blood cells, and stores minerals and fats.

Our muscular system also has other functions; it helps maintain internal body temperature and assists with movement of fluid in our veins and lymphatic vessels - it also protects the organs of the abdominal region, and stabilizes joints.

ACTIVITY 1: Is the skeleton male or female?

MATERIALS

- Sammy the skeleton (Sammy could stand for Samuel or Samantha!)

METHODS

"The pelvis tells the story"¹: Distinct features adapted for childbearing distinguish adult females from males. Other bones and the skull also have features that can indicate sex, though less reliably. In young children, these sex-related features are less obvious and more difficult to interpret. Subtle sex differences are detectable in younger skeletons, but they become more defined following puberty and sexual maturation."

The differences:

Female pelvic bones

- Broader sciatic notch
- Raised auricular surface

Male pelvic bones

- Narrower sciatic notch
- flat auricular surface

¹ From Smithsonian Institute: http://anthropology.si.edu/writteninbone/come/activity/pdf/skeleton_male_or_female.pdf

Skeletal And Muscular Systems Lab Manual

Kevin T Patton, PhD



Skeletal And Muscular Systems Lab Manual:

Skeletal and Muscular Systems Deloris Johnson, 1997-12-01 **Part - Anatomy & Physiology Laboratory Manual - E-Book** Kevin T Patton, PhD, 2014-12-02 Effectively master various physiology dissection identification and anatomic explorations in the laboratory setting with the Anatomy Physiology Laboratory Manual 9th Edition This practical full color lab manual contains 55 different A P lab exercises that cover labeling anatomy identification dissection physiological experiments computerized experiments and more The manual also includes safety tips a comprehensive instruction and preparation guide for the laboratory and tear out worksheets for each of the 55 exercises In addition 8 e Lab modules offer authentic 3D lab experiences online for virtual lab instruction 8 interactive eLabs further your laboratory experience in the digital environment Complete list of materials for each exercise offers a thorough checklist for planning and setting up laboratory activities Over 250 illustrations depict proper procedures and common histology slides Step by step guidance for dissection of anatomical models and fresh or preserved specimens with accompanying illustrations helps you become acclimated to the lab environment Physiology experiments centering on functional processes of the human body offer immediate and exciting examples of physiological concepts Easy to evaluate tear out lab reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs they have participated in Reader friendly spiral binding allows for hands free viewing in the lab setting Labeling and coloring exercises provide opportunities to identify critical structures examined in the lab and lectures Brief learning aids such as Hints Landmark Characteristics and Safety First are found throughout the manual to help reinforce and apply knowledge of anatomy and function Modern anatomical imaging techniques such as MRIs CTs and ultrasonography are introduced where appropriate Boxed hints and safety tips provide you with special insights on handling specimens using equipment and managing lab activities UPDATED Fresh activities keep the manual current and ensure a strong connection with the new edition of the A P textbook NEW Updated illustrations and design offer a fresh and upbeat look for the full color design and learning objectives NEW Expanded and improved student resources on the Evolve companion website include a new version of the Body Spectrum electronic coloring book **Anatomy & Physiology Laboratory Manual and E-Labs E-Book** Kevin T. Patton, 2018-01-24 Using an approach that is geared toward developing solid logical habits in dissection and identification the Laboratory Manual for Anatomy and coloring exercises offer a kinesthetic experience useful in retention of content User friendly spiral binding allows for hands free viewing in the lab setting Step by step dissection instructions with accompanying illustrations and photos cover anatomical models and fresh or preserved specimens and provide needed guidance during dissection labs The dissection of tissues organs and entire organisms clarifies anatomical and functional relationships 250 illustrations including common histology slides and depictions of proper procedures accentuate the lab manual s usefulness by providing clear visuals and guidance Easy to evaluate tear out Lab Reports contain checklists drawing exercises and questions that

help you demonstrate your understanding of the labs you have participated in They also allow instructors to efficiently check student progress or assign grades Learning objectives presented at the beginning of each exercise offer a straightforward framework for learning Content and concept review questions throughout the manual provide tools for you to reinforce and apply knowledge of anatomy and function Complete lists of materials for each exercise give you and your instructor a thorough checklist for planning and setting up laboratory activities allowing for easy and efficient preparation Modern anatomical imaging techniques such as computed tomography CT magnetic resonance imaging MRI and ultrasonography are introduced where appropriate to give future health professionals a taste for and awareness of how new technologies are changing and shaping health care Boxed hints throughout provide you with special tips on handling specimens using equipment and managing lab activities Evolve site includes activities and features for students as well as resources for instructors

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Manual of the Foetal Pig William Jacob Baumgartner,1924 **A Laboratory Manual and Text-book of Embryology** Charles William Prentiss,1917 **A Laboratory Manual for Elementary Zoölogy** Libbie Henrietta Hyman,1915

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 A Dissection Guide & Atlas to the Fetal Pig David G. Smith,Michael P. Schenk,2012-01-01 A Dissection Guide Atlas to the Fetal Pig 3rd Ed by David G Smith and Michael P Schenk is designed to provide students with a comprehensive introduction to the anatomy of the fetal pig This full color dissection guide and atlas gives the student carefully worded directions for learning basic mammalian anatomy through the use of a fetal pig specimen **A Laboratory Manual of the Anatomy of the Rat** Harrison Randall Hunt,1924

Laboratory Guide for the Study of the Frog Bertram Garner Smith,1917 *Basic Anatomy: A Laboratory Manual* B. L. Allen,1987 Designed for undergraduate courses emphasizing human anatomy and using the cat for dissection this popular manual organized by system offers exercises that highlight the differences and similarities between feline and human anatomy Laboratory Manual for Anatomy & Physiology Michael G. Wood,2005 Michael G Wood s straightforward and complete lab manual guides students through hands on exercises that reinforce concepts they ve learned in their anatomy physiology lecture course The full color illustrations and step by step instructions are designed to help students visualize structures understand three dimensional relationships and comprehend complex physiological processes Many of the illustrations are the same as the illustrations by William Ober and Claire Garrison that appear in Martini Fundamentals of Anatomy Physiology Seventh Edition making this lab manual a perfect companion to that textbook

Unveiling the Magic of Words: A Review of "**Skeletal And Muscular Systems Lab Manual**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Skeletal And Muscular Systems Lab Manual**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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