

Lab 3: Integumentary System

Learning outcomes of the lab exercises:

1. Locate on microscope slides and classroom models the major structures of the skin.
2. Describe the major functions of the skin.
3. Distinguish the locations and components of the epidermis, dermis and hypodermis.
4. Identify and sketch regions of the skin and associated accessory structures such as hair and glands that were observed on the microscope slides.

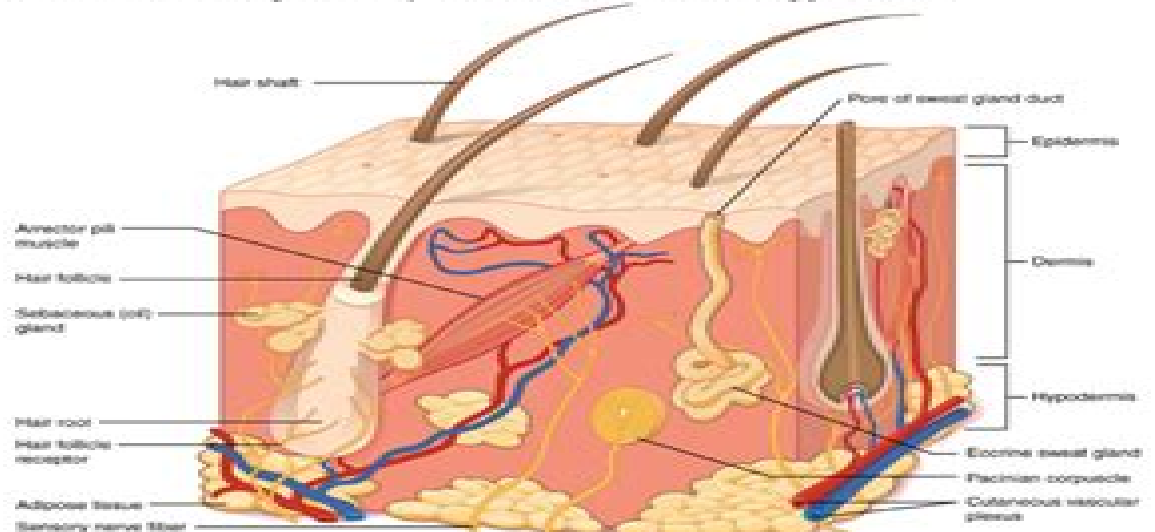
"Although you may not typically think of the skin as an organ, it is in fact made of tissues that work together as a single structure to perform unique and critical functions. The skin and its accessory structures make up the integumentary system, which provides the body with overall protection... It also has numerous sensory, and autonomic and sympathetic nerve fibers ensuring communication to and from the brain."

OpenStax A&P pg. 180

I. **SKIN AND ITS TISSUES (Cutaneous Membrane)**

A. **General Structure:**

1. Two distinct regions or layers compose the skin:
 - a. **Epidermis** = outermost layer;
 - keratinized stratified squamous ET.
 - b. **Dermis** = inner layer;
 - glandular epithelium (sweat, sebaceous glands),
 - dense irregular CT (collagen),
 - smooth muscle tissue (arrector pili muscles),
 - nervous tissue (Meissner's & Pacinian Corpuscles), and
 - hair follicles and blood vessels
2. **Subcutaneous layer** = adipose tissue; also called **hypodermis**



The Integumentary System Lab Answers

Ken Green



The Integumentary System Lab Answers:

Laboratory Manual for Hole's Human Anatomy and Physiology PHILLIP. MARTIN SNIDER (TERRY.),2021

Anatomy and Physiology, Laboratory Manual Connie Allen,Valerie Harper,2016-12-28 The Allen Laboratory Manual for Anatomy and Physiology 6th Edition contains dynamic and applied activities and experiments that help students both visualize anatomical structures and understand complex physiological topics Lab exercises are designed in a way that requires students to first apply information they learned and then critically evaluate it With many different format options available and powerful digital resources it s easy to customize this laboratory manual to best fit your course *Ingenix*

Coding Lab Ingenix,2005-12 This inexpensive manual provides instruction on gleanng the proper information from physicians documentation Beginning with a discussion of operative reports and their importance to the coding process the book includes examples of operative reports and operative notes information needed to successfully and accurately code specialty specific scenarios and the CPT chapter in which each service falls **1, 2, 3 Code!-Instructor's Manual** Ken

Green,2006-08 **Exploring Biology in the Laboratory: Core Concepts** Murray P. Pendarvis,John L. Crawley,2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today **The Laboratory Rabbit, Guinea Pig, Hamster, and Other Rodents** Mark A. Suckow,Karla A.

Stevens,Ronald P. Wilson,2012-01-09 This is a single volume comprehensive book sanctioned by the American College of Laboratory Animal Medicine ACLAM covering the rabbit guinea pig hamster gerbil and other rodents often used in research This well illustrated reference includes basic biology anatomy physiology behavior infectious and noninfectious diseases husbandry and breeding common experimental methods and use of the species as a research model It is a resource for advancements in the humane and responsible care of rabbit guinea pig hamster gerbil chinchilla deer mouse kangaroo rat cotton rat sand rat and degu Includes up to date common experimental methods Organized by species for easy access during bench research Sm Lab Exer Anat Physio Cat Di Gerard J. Tortora,1999-11 Phlebotomy Handbook Diana

Garza,Kathleen Becan-McBride,2002 This book is the most accurate and current source of blood and specimen collection information for today s health care professionals Designed to provide health care professionals with clinical technical and communication skills and knowledge Features sections devoted to safety equipment and collection special procedures and point of care testing and quality and legal issues and the latest information about the standards related to the Needlestick Prevention Act Includes additional information about the risks and hazards to health care workers who collect blood

specimens Extensive discussion of age related competencies trans cultural communication and nonverbal and verbal communication strategies Clinical alerts provided in each chapter warn readers about potentially dangerous situations in a procedure process or patient condition **Medical Terminology Express** Barbara A Gylys, Regina M Masters, 2014-11-24 Now in its 2nd edition Medical Terminology Express adapts Barbara Gylys s proven word building techniques for the short course Organized by body system this text shows the connection between anatomical structures and associated medial word roots **The Laboratory Rat** Mark A. Suckow, Steven H. Weisbroth, Craig L. Franklin, 2005-12-20 The Laboratory Rat Second Edition features updated information on a variety of topics including rat genetics and genomics both spontaneous and induced disease state of the art technology for housing and husbandry occupational health and experimental models A premier source of information on the laboratory rat that will be of interest to veterinary and medical students senior graduate graduate students post docs and researchers who utilize animals in biomedical research At least 50% new information than first edition Includes topics on rat genetics and genomics occupational health and experimental models The premier source of information on the laboratory rat **Ingenix Coding Lab: Module 2** Ingenix, 2005 *Laboratory Manual for Anatomy and Physiology, with Fetal Pig Dissections* Patricia J. Donnelly, George A. Wistreich, 1993 **Ingenix Coding Lab 2** Ingenix, 2002-11 *Dangerous Properties of Industrial Materials Report* , 1987 *Hole's Human Anatomy & Physiology* David Shier, Jackie Butler, Ricki Lewis, 1996 The early 20th century in Italy was a crucial period in its history This book surveys the important issues and topics of the period including the origins and rise of fascism Mussolini as prime minister and dictator the totalitarian state foreign policy and World War II It also examines how Italian fascism compared to other inter war dictatorships **Lab Manual to Accompany Human Anatomy and Physiology** Solomon, Bruce D. Wingerd, 1990-09 **The American Biology Teacher** , 2006 *Instructors Resource Guide* Elaine N. Marieb, Barbara Stewart, 2001-11-02 2004 Cp "Teach" Textbook Patrice Morin-Spatz, 2004-12 U.S. Government Research & Development Reports , 1965

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Table of Contents The Integumentary System Lab Answers

1. Understanding the eBook The Integumentary System Lab Answers
 - The Rise of Digital Reading The Integumentary System Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying The Integumentary System Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an The Integumentary System Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from The Integumentary System Lab Answers
 - Personalized Recommendations
 - The Integumentary System Lab Answers User Reviews and Ratings
 - The Integumentary System Lab Answers and Bestseller Lists

5. Accessing The Integumentary System Lab Answers Free and Paid eBooks
 - The Integumentary System Lab Answers Public Domain eBooks
 - The Integumentary System Lab Answers eBook Subscription Services
 - The Integumentary System Lab Answers Budget-Friendly Options
6. Navigating The Integumentary System Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - The Integumentary System Lab Answers Compatibility with Devices
 - The Integumentary System Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of The Integumentary System Lab Answers
 - Highlighting and Note-Taking The Integumentary System Lab Answers
 - Interactive Elements The Integumentary System Lab Answers
8. Staying Engaged with The Integumentary System Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers The Integumentary System Lab Answers
9. Balancing eBooks and Physical Books The Integumentary System Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection The Integumentary System Lab Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine The Integumentary System Lab Answers
 - Setting Reading Goals The Integumentary System Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of The Integumentary System Lab Answers
 - Fact-Checking eBook Content of The Integumentary System Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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