

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.

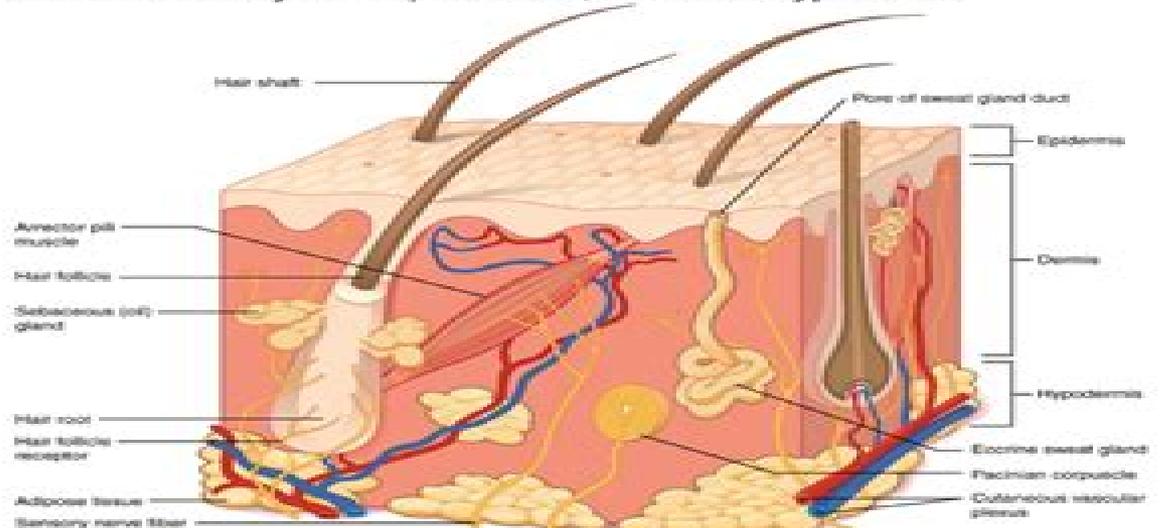
"Although you may not typically think of the skin as an organ, it is in fact made of tissues that work together as a single structure to perform unique and critical functions. The skin and its accessory structures make up the integumentary system, which provides the body with overall protection... It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

Peipei Pang



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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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