

## 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.

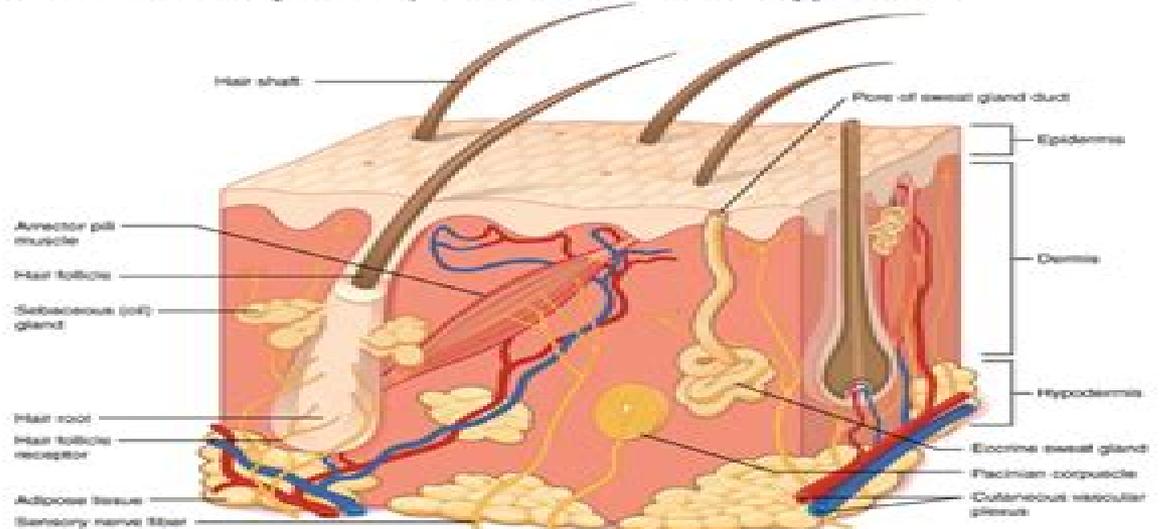
"Although you may not typically think of the skin as an organ, it is in fact made of tissues that work together as a single structure to perform unique and critical functions. The skin and its accessory structures make up the integumentary system, which provides the body with overall protection... It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



# Marieb Lab Manual Integumentary System

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## **Table of Contents Marieb Lab Manual Integumentary System**

1. Understanding the eBook Marieb Lab Manual Integumentary System
  - The Rise of Digital Reading Marieb Lab Manual Integumentary System
  - Advantages of eBooks Over Traditional Books
2. Identifying Marieb Lab Manual Integumentary System
  - 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 Marieb Lab Manual Integumentary System
  - User-Friendly Interface
4. Exploring eBook Recommendations from Marieb Lab Manual Integumentary System
  - Personalized Recommendations
  - Marieb Lab Manual Integumentary System User Reviews and Ratings
  - Marieb Lab Manual Integumentary System and Bestseller Lists

5. Accessing Marieb Lab Manual Integumentary System Free and Paid eBooks
  - Marieb Lab Manual Integumentary System Public Domain eBooks
  - Marieb Lab Manual Integumentary System eBook Subscription Services
  - Marieb Lab Manual Integumentary System Budget-Friendly Options
6. Navigating Marieb Lab Manual Integumentary System eBook Formats
  - ePub, PDF, MOBI, and More
  - Marieb Lab Manual Integumentary System Compatibility with Devices
  - Marieb Lab Manual Integumentary System Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Marieb Lab Manual Integumentary System
  - Highlighting and Note-Taking Marieb Lab Manual Integumentary System
  - Interactive Elements Marieb Lab Manual Integumentary System
8. Staying Engaged with Marieb Lab Manual Integumentary System
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Marieb Lab Manual Integumentary System
9. Balancing eBooks and Physical Books Marieb Lab Manual Integumentary System
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Marieb Lab Manual Integumentary System
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Marieb Lab Manual Integumentary System
  - Setting Reading Goals Marieb Lab Manual Integumentary System
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Marieb Lab Manual Integumentary System
  - Fact-Checking eBook Content of Marieb Lab Manual Integumentary System
  - 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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web in addition the following safety color designations have been used in company facilities and shall continue to be acceptable for use as safety colors for existing and new facilities safety red ral<sup>1</sup> 3000 bs<sup>2</sup> 538 537 fs<sup>3</sup> 31350 safety green ral 6016 bs<sup>2</sup> 538 262 fs 14120 safety yellow ral 1023 bs<sup>2</sup> 538 363 fs 13591 23640 safety orange

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