

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.

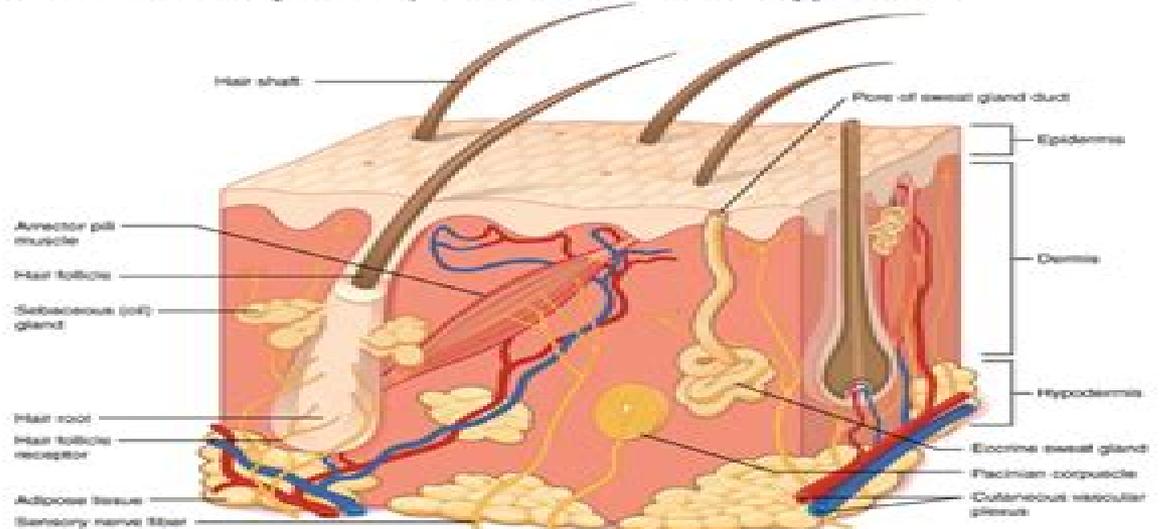
"Although you may not typically think of the skin as an organ, it is in fact made of tissues that work together as a single structure to perform unique and critical functions. The skin and its accessory structures make up the integumentary system, which provides the body with overall protection... It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

Elaine N. Marieb, Susan J. Mitchell



Marieb Lab Manual Integumentary System:

Embracing the Tune of Appearance: An Emotional Symphony within **Marieb Lab Manual Integumentary System**

In a global used by screens and the ceaseless chatter of quick transmission, the melodic elegance and psychological symphony developed by the published term usually fade into the backdrop, eclipsed by the persistent sound and disruptions that permeate our lives. But, situated within the pages of **Marieb Lab Manual Integumentary System** an enchanting literary treasure brimming with fresh feelings, lies an immersive symphony waiting to be embraced. Crafted by an outstanding musician of language, this interesting masterpiece conducts viewers on an emotional journey, skillfully unraveling the hidden tunes and profound influence resonating within each carefully crafted phrase. Within the depths with this poignant review, we can examine the book is central harmonies, analyze their enthralling writing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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