

# The Integumentary System

## Learning Outcomes

- ▶ List several important functions of the skin, or integumentary system.
- ▶ Identify the following skin structures on a model, image, or microscope slide: epidermis, dermis (papillary and reticular layers), hair follicles and hair, sebaceous glands, and sweat glands.
- ▶ Name and describe the layers of the epidermis.
- ▶ List the factors that determine skin color, and describe the function of melanin.
- ▶ Identify the major regions of nails.
- ▶ Describe the distribution and function of hairs, sebaceous glands, and sweat glands.
- ▶ Discuss the difference between eccrine and apocrine sweat glands.
- ▶ Compare and contrast the structure and functions of the epidermis and the dermis.

### Pre-Lab Quiz



Instructors may assign these and other Pre-Lab Quiz questions using *Mastering A&P*™.

1. All the following are functions of the skin except:
  - a. excretion of body wastes
  - b. insulation
  - c. protection from mechanical damage
  - d. site of vitamin A synthesis
2. The most superficial layer of the epidermis is the:
 

a. stratum basale	c. stratum granulosum
b. stratum spinosum	d. stratum corneum
3. These cells produce a brown-to-black pigment that colors the skin and protects DNA from ultraviolet radiation damage. The cells are:
  - a. dendritic cells
  - b. keratinocytes
  - c. melanocytes
  - d. tactile cells
4. The portion of a hair that projects from the surface of the skin is known as the:
  - a. bulb
  - b. matrix
  - c. root
  - d. shaft
5. Circle the correct underlined term. The ducts of sebaceous / sweat glands usually empty into a hair follicle but may also open directly on the skin surface.

**T**he integument is considered an organ system because it consists of multiple organs, the skin and its accessory organs. It is much more than an external body covering; architecturally, the skin is a marvel. It is tough yet pliable, a characteristic that enables it to withstand constant insult from outside agents. The skin has many functions, most concerned with protection. It insulates and cushions the underlying body tissues and protects the entire body from abrasion, exposure to harmful chemicals, temperature extremes, and bacterial invasion. The hardened uppermost layer of the skin prevents water loss from the body surface.

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Instructors may assign new Building Vocabulary coaching activities, Pre-Lab Quiz questions, Art Labelling activities, Practice Anatomy Lab Practical questions (PAL) for Histology of the Integumentary System, and more using the *Mastering A&P*™ Item Library.

### Materials

- ▶ Skin model (three-dimensional, if available)
- ▶ Compound microscope
- ▶ Prepared slide of human scalp
- ▶ Prepared slide of skin of palm or sole
- ▶ Sheet of 20# bond paper ruled to mark off  $\text{cm}^2$  areas
- ▶ Scissors
- ▶ Povidone-iodine swabs, or Lugol's iodine and cotton swabs
- ▶ Adhesive tape
- ▶ Disposable gloves
- ▶ Data collection sheet for plotting distribution of sweat glands
- ▶ Ponstol® fingerprint pad or portable inkless pads
- ▶ Ink cleaner towelettes
- ▶ Index cards (4 in.  $\times$  6 in.)
- ▶ Magnifying glasses

## Answer To Lab Manual Exercise 7 Pearson

**Rose Arny**

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