Integumentary System
Epidermal Cells

(a) Keratinocyte
(b) Melanocyte
(c) Langerhans cell
(d) Merkel cell
Layers of the Epidermis

(a) Four principal cell types in epidermis

(b) Photomicrograph of a portion of skin

05.03
Parts of the Dermis

- Pacinian corpuscles – pressure
- Hair follicles
- Sweat glands
- Blood vessels
- Arrector pili muscles
Hair
Glands

- Eccrine sweat glands: function throughout life.
- Apocrine: located in the axilla, groin, areolae, and beard areas. Begin functions at puberty.
- Ceruminous glands – wax in the ears.
Epidermal wound healing

(a) Division of basal epithelial cells and migration across wound
(b) Thickening of epidermis
Deep wound healing

(a) Inflammatory phase

(b) Maturation phase
Skin cancers

(a) Normal nevus (mole)  (b) Malignant melanoma

05.08
Types of Skin Cancers

- Malignant Melanoma
- Basal Cell Carcinoma
- Squamous Cell Carcinoma
Words to Know

- Hemangioma
- Impetigo
- Laceration
- Nevus
- Pruritis
- Wart