

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.

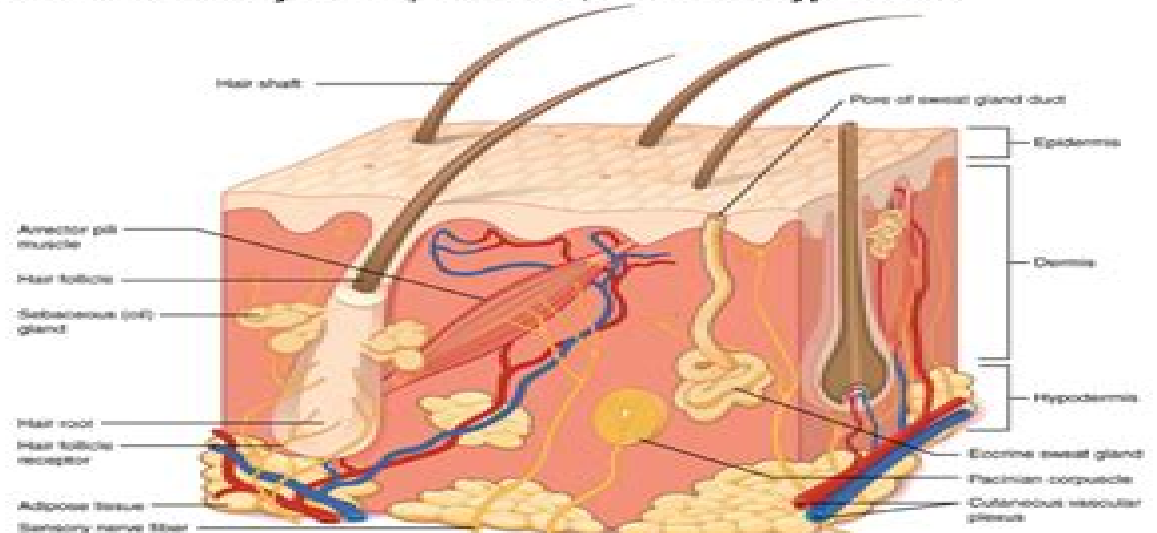
"Although you may not typically think of the skin as an organ, it is in fact made of tissues that work together as a single structure to perform unique and critical functions. The skin and its accessory structures make up the integumentary system, which provides the body with overall protection... It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



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EW Minium



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Report of the Surgeon-General, United States Army, to the Secretary of War United States. Surgeon-General's Office,1882 **Report of the Surgeon-General of the Army to the Secretary of War for the Fiscal Year Ending ...** United States. Surgeon-General's Office,1889 Provides data statistical and tabular on the operations and activities of the Surgeon General s Office including financial statements reports on health and hygiene in the Army hospitals medical supplies brief agency histories etc *National Cancer Institute Carcinogenesis Technical Report Series* ,1976 The Netter Collection of Medical Illustrations: Integumentary System Bryan E. Anderson,2012-02-27 The Integumentary System by Bryan E Anderson MD takes a concise and highly visual approach to illustrate the basic sciences and clinical pathology of the skin hair and nails This newly added never before published volume in The Netter Collection of Medical Illustrations formerly the CIBA Green Books captures current clinical perspectives on the integumentary system from normal anatomy and histology to pathology dermatology and common issues in plastic surgery and wound healing Using classic Netter illustrations and new illustrations created in the Netter tradition as well as a great many cutting edge histologic micrographs and diagnostic images it provides a vivid illuminating and clinically indispensable view of this body system Gain a rich holistic clinical view of every structure by seeing classic Netter anatomic illustrations cutting edge histologic images and diagnostic imaging studies side by side Visualize the most recent topics in cutaneous pathology such as sporothrix and cutaneous t cell lymphoma as well as classic problems like alopecia and neurofibromatosis informed by the latest developments in molecular biology and histologic imaging See current dermatologic concepts captured in the visually rich Netter artistic tradition via major new contributions from Netter disciple Carlos Machado MD making complex concepts easy to understand and remember through the precision clarity detail and realism for which Netter s work has always been known Get complete integrated visual guidance on the skin hair and nails in a single source from basic sciences and normal anatomy and function through pathologic conditions Adeptly navigate current controversies and timely topics in clinical medicine with guidance from the Editor and informed by an experienced international advisory board *Statistical Register of the Colony of the Cape of Good Hope* ,1906 **Elihu Root Collection of United States Documents** ,1895 *Annual Report of the Secretary of War* United States. War Department,1900 **Proceedings of the Parliament of South Australia** South Australia. Parliament,1884 *Annual report of the Surgeon General, U. S. Navy, ... relative to statistics of diseases and injuries in the United States Navy. 1883* ,1884 **The Science and practice of medicine v. 2** William Aitken,1868

Parliamentary Papers Great Britain. Parliament. House of Commons,1902 **Elihu Root Collection of United States Documents Relating to the Philippine Islands** ,1900 **Annual Report of the Secretary of the Navy** United States. Navy Department,1885 *weekly returns of birth and deaths in dublin* ,1874 *Photocarcinogenesis Study of Aloe Vera [CAS No. 481-72-1 (Aloe-emodin)] in SKH-1 Mice (Simulated Solarlight and Topical Application Study)* Nancy

Kerkvliet,2011-06 Extracts from the Aloe Vera plant are widely used in skin care products This pub reports on a study of the effects of synthetic solar light on the skin of hairless mice that had been treated with creams containing various Aloe Vera extracts The study concludes that Aloe gel or Aloe emodin had a weak enhancing effect on the photocarcinogenic activity of simulated solar light in female but not male hairless mice The study concludes that Aloe whole leaf extract and decolorized leaf extract had a weak enhancing effect on the photocarcinogenic activity of simulated solar light in both male and female hairless mice Illustrations This is a print on demand edition of an important hard to find publication Mortality Experience of the Prudential Assurance Company in the Industrial Branch for the Years 1867: 1868: 1869: 1870 Henry Harben,1871

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