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A Short Note on Anatomy

Molly Fernandez*

Department of Dermatology, San Gallicano Dermatological Institute, Rome, Italy

Commentary

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***For Correspondence:**
Molly Fernandez, Department of Dermatology, San Gallicano Dermatological Institute, Rome, Italy

E-mail:fernandez@gmail.com

DESCRIPTION

Anatomy (Greek anatom, 'dissection') is a discipline of biology concerned with the anatomy of animals and their parts. Anatomy is a field of physical science that studies the structure of living organisms. Anatomy is inextricably linked to biology, developmental biology, anatomy, evolutionary theory, and phylogenetic since these are the mechanisms that generate anatomy on both short and long timescales. Anatomy and physiology, which examine the function and structure of organisms and their parts, are commonly studied together as a natural combination of linked disciplines.

Anatomy is divided into two categories: macroscopic and microscopic. The inspection of a human's body parts with unaided sight is known as macro anatomy, or gross anatomy. The subject of superficial anatomy is included in gross anatomy. Microscopic anatomy includes the use of optical equipment to investigate the tissue of various structures, a process known as histology, as well as cells.

INTRODUCTION

The history of anatomy is marked by a growing understanding of the functioning of the human body's organs and tissues. Methods have also advanced significantly, moving from dissecting of corpses and cadavers (corpses) to 20th century medical imaging techniques such as X-ray, ultrasound, and magnetic resonance.

Animalia is a kingdom of heterotrophic and mobile multicellular organisms (although some have secondarily adopted a sessile lifestyle). Eumetazoans are creatures with bodies that are divided into separate tissues. The spermatogenesis in multiple sexual organs and the gametophytes include a blastocyst stage in their embryogenesis. Sponge cells are not classified as metazoans since they are undifferentiated.

Animal cells, unlike plant cells, have a cell wall and chloroplasts. When present, vacuoles are bigger and more abundant than those seen in plant cells. Many different types of cells make up body tissues, including those present in muscles, nerves, and skin. Each cell has a phospholipid-based cell membrane, cytoplasm, and a nucleus. The embryo layers give rise to all of an animal's various cells. Diploblastic invertebrates have two cell layers of epidermis and endoderm, but triploblastic animals have three germ layers and have highly developed structures and organs.

Connective, epithelial, muscular, and nerve tissue are the four fundamental types of animal tissues.

Connective tissues are fibrous, with cells scattered around in an extracellular matrix of inorganic substances. Organs are held in place by connective tissue, which gives them shape. Fibrocartilage, adipose cells, fibrous connective tissue, cartilage, and bone are the most common forms. Collagen is the most abundant and important protein in the extracellular matrix. Collagen is essential for tissue structure and function. The matrices can be changed to create a skeleton that will support or defend the skin. Exoskeletons are thickened, rigid cuticles that are stiffened by calcification, as in crustaceans, or by protein cross-linking, as in insects. Internally, all evolved creatures, as well as many less developed animals, have an endoskeleton.

Epithelial tissue is made up of tightly packed cells that are held together by cell adhesion molecules. There is very little intercellular space in epithelial tissue. Squamous (flat), cuboidal, or columnar epithelial cells rest on a basal layer, the top part of the basement membrane; the bottom layer is indeed the reticular lamina, which lies close to fibrous tissue inside the extracellular generated by epithelial cells. Epithelium comes in a variety of sizes, each tailored to a certain function. There is a form of ciliated epithelium lining in the respiratory tract, microvilli just on epithelial layer in the small intestine, and intestinal villi in the large intestine.

The skin of animals is made up of an outermost surface of keratinocytes stratified squamous that covers the outside of the body. Keratinocytes account for 95 percent of all skin cells. Typically, epithelial on the body's exterior surface release a stroma inside the form of the cuticle. This could simply be a covering of glycoproteins in primitive animals. Many glands in more sophisticated animals are made up of epithelial cells.