

The Muscular System

ACSC101: General Anatomy & Physiology IIIA
Lect 10/10/20

Background

The Muscular System

The major function of the muscular system is **movement** - the contraction of muscle, including pumping the heart, contracting skeletal muscles to move the body, control of facial expression, etc. Muscles also create heat as they contract, helping to maintain a constant body temperature. Skeletal muscle (voluntary) mostly built of unbranched, striated body muscle. Each muscle is an individual organ made up of muscle tissue, nerves, blood vessels, and connective tissue. There are three types of muscle tissue: skeletal, cardiac, and smooth.

Skeletal Muscle

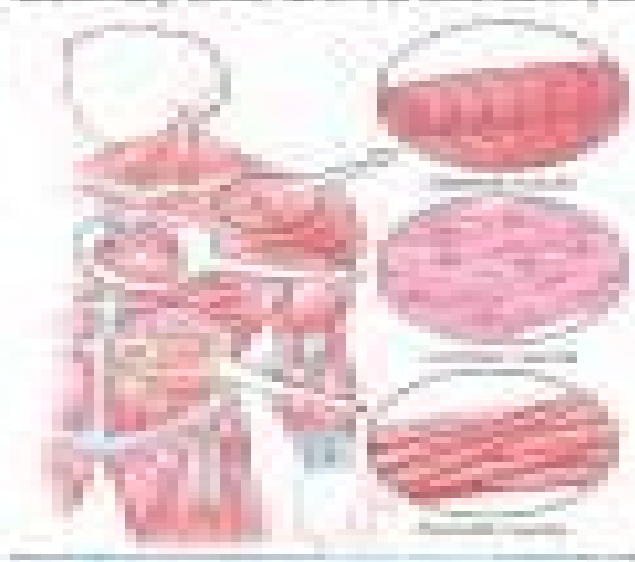
Skeletal muscle cells (myofibrils) are attached to bony structures.

Skeletal muscles contract voluntarily, meaning that you can control them.

Characteristics: skeletal muscle cells appear to be unbranched like epithelial cells.

striated, tapered, and multinucleated. Each skeletal muscle cell is attached to two bony ends (a point where they contract, they pull that attachment point toward the other end).

Myofibrils are made up of alternatingly tough collagen fibers in the form of dense regular connective tissue. They consist of skeletal muscle fibers, which are separated by some connective tissue. Skeletal myofibrils are formed through an arrangement of myofibrils, which are formed by repeating units called sarcomeres, and these form the myofibrils, which are formed by repeating units called sarcomeres. The repeating unit of the myofibril is the sarcomere, which is formed by repeating units called sarcomeres. The sarcomere is the basic unit of contraction, and it is formed by repeating units called sarcomeres. The sarcomere is the basic unit of contraction, and it is formed by repeating units called sarcomeres. The sarcomere is the basic unit of contraction, and it is formed by repeating units called sarcomeres.



Cardiac Muscle

Cardiac muscle is only found in the heart and is characterized by striations and branching. It is formed by repeating units called sarcomeres, which are formed by repeating units called sarcomeres. The sarcomere is the basic unit of contraction, and it is formed by repeating units called sarcomeres. The sarcomere is the basic unit of contraction, and it is formed by repeating units called sarcomeres. The sarcomere is the basic unit of contraction, and it is formed by repeating units called sarcomeres.

Smooth Muscle

Smooth muscle cells are found in the walls of internal organs. They are formed by repeating units called sarcomeres, which are formed by repeating units called sarcomeres. The sarcomere is the basic unit of contraction, and it is formed by repeating units called sarcomeres. The sarcomere is the basic unit of contraction, and it is formed by repeating units called sarcomeres. The sarcomere is the basic unit of contraction, and it is formed by repeating units called sarcomeres.

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Wolfgang Guggemos

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Journal of the American Physical Therapy Association ,1962 *U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973* United States. Environmental Protection Agency. Library Systems Branch,1974

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