

The Muscular System

ACSC100: General Anatomy & Physiology IIIA
Lectureship

Blackboarded

The Muscular System

The major function of the muscular system is **movement** - the voluntary movement, including: pumping the heart, contracting skeletal muscles to move the body, control of facial & neck expressions, 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, smooth.

Skeletal Muscle

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

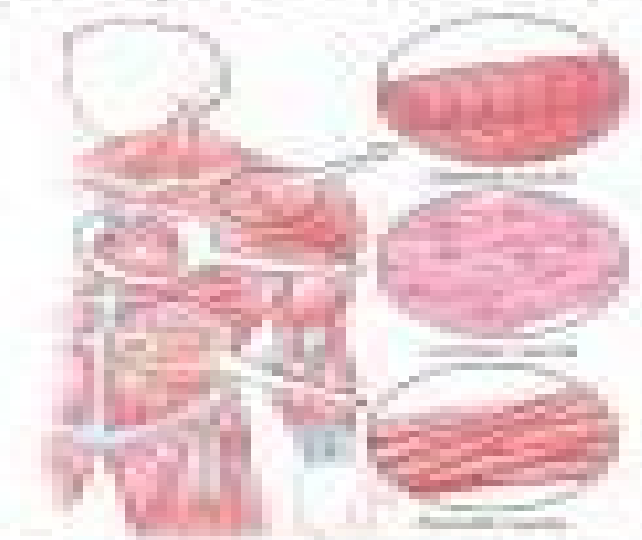
Skeletal muscles contract voluntarily, meaning that you can control them.

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

striated, tapered and multinucleated. Each skeletal muscle cell attached to bone through tendons.

When they contract, they pull the attachment points closer to each other.

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 surrounded by some connective tissue. Myofibrils are made up of repeating units of sarcomeres, which are the basic units of contraction. The myofibrils are made up of repeating units of sarcomeres, which are the basic units of contraction. The myofibrils are made up of repeating units of sarcomeres, which are the basic units of contraction. The myofibrils are made up of repeating units of sarcomeres, which are the basic units of contraction.



Cardiac Muscle

Cardiac muscle is only found in the heart and is characterized by striations and branching. It is found throughout the heart, especially in the myocardium. Cardiac muscle is characterized by its branching nature, which allows it to contract as a syncytium. The heart has its own pacemaker, which controls the rate of contraction. Cardiac muscle is found in the heart, where it contracts to pump blood. It is characterized by its branching nature, which allows it to contract as a syncytium. The heart has its own pacemaker, which controls the rate of contraction. Cardiac muscle is found in the heart, where it contracts to pump blood. It is characterized by its branching nature, which allows it to contract as a syncytium.

Smooth Muscle

Smooth muscle, also known as involuntary muscle, is the muscle of the internal organs. It is found in the walls of the digestive tract, the respiratory tract, the urinary tract, and the reproductive system. Smooth muscle is characterized by its lack of striations and its ability to contract without conscious control. It is found in the walls of the digestive tract, the respiratory tract, the urinary tract, and the reproductive system. Smooth muscle is characterized by its lack of striations and its ability to contract without conscious control.

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Faith Woodland



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