#### Histology - Muscle & Nervous Tissue HASPI Medical Anatomy & Physiology 04c Astwity

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#### Background

#### Muscle Tissue

The cells of muscle tissue are extremely long and contain protein fibers capable of contracting to provide movement. The bulk of muscle tissue is made up of two proteins, myosin and actin. These proteins are organized into muscle fibers called myofilaments, and can be arranged into even larger bundles to create muscles. Muscle tissues are separated into three main types depending on the arrangement of these myofilaments. These include skeletal muscle tissue, smooth muscle tissue, and confian muscle fissue.

Skeletal muscle is also considered "voluntary muscle" and makes up the muscles that are attached to our skeleton by tendors. These muscles can be contracted voluntarily and function in movement and maintenance of posture. About 35-45% of the human body is made up of skeletal muscle tissue. When skeletal muscle tissue is observed, there are visible strations, or lines that can be seen.

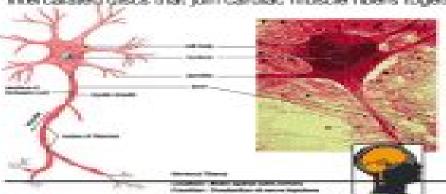
Smooth muscle is also known as "involuntary muscle" and makes up the lining of most of the organs of the body. This includes the gastrointestinal tract, respiratory tract, blood vessels, bladder, and uterus just as a few examples. These muscles do not contract voluntarily and do not have visible striations. For example, in a process called peristatis smooth muscle contracts in waves to push food from the ecophagus all the way through until it is exhelled out the arms.

Cardiac muscle makes up the heart, and is an extremely dense strong tissue. Cardiac muscle tissue has a very large number of mitochondria to provide the energy source for the continuous contracting action of the heart. Cardiac muscle tissue is strated like skeletal muscle tissue, but also has myofitaments amanged into larger striations called intercalated discs that join cardiac muscle fibers together.

# Skeletal Muscle Tissue

Smooth Muscle Tissue





#### Nervous Tissue

Nervous tissue is found in the brain, spinal cord, and nerves and is responsible for communication. There are two main cells that make up nervous tissue: neurons and neuroglis cells. Neurons are responsible for sending and receiving messages while neuroglis provide support and nutrients for neuropis.

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## **The Muscular System Haspi Answers**

**Cheryl Jakab** 

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