

Muscular System Part 1

Muscle Types

- Muscles are responsible for all types of body movement
- Three basic muscle types are found in the body
 1. Skeletal muscle
 2. Cardiac muscle
 3. Smooth muscle

Skeletal and smooth muscle cells are elongated (muscle cell = muscle fiber)

- Contraction and shortening of muscles are due to the movement of microfilaments

All muscles share some terminology

- Prefixes *myo-* and *mys-* refer to "muscle"
- Prefix *sarco-* refers to "flesh"

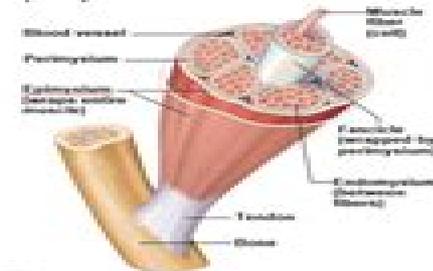


Skeletal muscle

- Most skeletal muscle fibers are attached by tendons to bones
- Skeletal muscle cells are large, cigar-shaped, and multinucleate
- Also known as **striated muscle** because of its obvious stripes
- Also known as **voluntary muscle** because it is the only muscle tissue subject to conscious control

Skeletal muscle cells are surrounded and bundled by connective tissue

- **Endomysium**—encloses a single muscle fiber
- **Perimysium**—wraps around a fascicle (bundle) of muscle fibers
- **Epimysium**—covers the entire skeletal muscle
- **Fascia**—on the outside of the epimysium



The epimysium of skeletal muscle blends into a connective tissue attachment

- **Tendons**—cordlike structures
 - o Mostly collagen fibers
 - o Often cross a joint because of their toughness and small size
- **Aponeuroses**—sheetlike structures
 - o Attach muscles indirectly to bones, cartilages, or connective tissue coverings

Anatomy And Physiology Chapter 6 Muscular System

Rachel S Tattersall



Anatomy And Physiology Chapter 6 Muscular System:

Anatomy And Physiology Chapter 6 Muscular System Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Anatomy And Physiology Chapter 6 Muscular System**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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