

## Chapter 6: The Muscular System

- I. List the 3 types of muscles and one location of each
  - A. **Cardiac**- located in the walls of the heart
  - B. **Smooth**- located in walls of hollow visceral organs
  - C. **Skeletal**- attached to bones
- II. Microscopic Anatomy of Skeletal Muscle
  - A. Muscle cells, also called **myocytes**, consist of long ribbon-like organelles called **myofibrils**.
  - B. Myofibrils are chains of contractile units called **sarcomeres**.
  - C. Sarcomeres consist of 2 types of myofilaments: thin ( **filaments** ) and thick ( **filaments** ).
  - D. The **sarcoplasmic** reticulum (SR) is another important organelle within muscle fibers.
    1. The function of the SR is to store and release **calcium** when the muscle fiber is stimulated to contract.
- III. Skeletal Muscle Activity
  - A. The Neuromuscular Junction (NMJ)
    1. The neuromuscular junction is where the long extension of a neuron, called an **axon**, communicates with the muscle fiber.
      - a. One neuron and all of the muscle fibers it innervates is called a **motor unit**.
      - b. Motor units vary in **stimulation**.
    2. Activities at the NMJ
      - a. The electrical signal, called the **acetylcholine**, travels down the axon of a neuron to the end called the axon **terminal**.
      - b. **calcium** channels open and calcium **enters** the axon terminal.
      - c. Calcium entry causes the neurotransmitter **acetylcholine** to be released.
      - d. Acetylcholine diffuses across the **synaptic cleft** (the space between the axon terminal and muscle fiber) and binds to acetylcholine receptors on the muscle fiber.
      - e. The binding of acetylcholine leads to an electrical impulse, or action potential, in the muscle .
      - f. Acetylcholine is broken down by the enzyme **acetylcholinesterase** and the muscle fiber goes back to rest.
  - B. Excitation Contraction Coupling and the Sliding Filament Theory
    1. The action potential stimulates the **sarcoplasmic reticulum** to release **calcium ions** into the cytoplasm of the muscle fiber.

# Development Aspects Of The Muscular System Answers

**New Hampshire**



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