

Bio 213- Anatomy and Physiology I**Chapter 11- Muscular Tissue****I. Functions of the muscular system**

- A. body movement
- B. maintenance of posture
- C. respiration
- D. body heat production
- E. communication
- F. constriction of organs and vessels
- G. heart beat

II. Universal Characteristics of Muscle

- A. Responsiveness (excitability to nerve impulses)
- B. Conductivity (electrical)
- C. Contractility (they can shorten)
- D. Extensibility (lengthen after shortening)
- E. Elasticity (stretch and return)

III. Skeletal Muscle Structure**A. Muscle Fiber = Muscle Cell Fig 11.1**

- 1. Large, cylindrical, multinucleated cell
- 2. Develop from myoblasts
 - a. Myoblast precursor cells join resulting in multinucleated cell
 - b. Contractile proteins accumulate
- 3. Muscle growth results from increase in muscle fiber size
- 4. Size:
 - a. Range from 1 mm to 4 cm long (up to 30 cm)
 - b. Range from 10 to 100 μ m in diameter
- 5. Striated

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