

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**

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