

Muscle tissue part 1

1. Describe the major functions, characteristics and distinguishing structural elements of skeletal, cardiac and smooth muscle

- **Skeletal muscle**
 - Long, multinucleated and connected to nerves
- **Cardiac muscle**
 - Shorter, uni or bi nucleated, branched, involuntary, connected to each other by gap junctions
- **Smooth muscle cells**
 - Short, spindle shaped, uninucleated, connected to each other by gap junctions
 - Endomysium: holds muscle cells together within muscle tissue
- **Characteristics of muscle cells**
 - **Contractility:** ability of protein fibers within myocytes to draw together
 - **Excitability:** respond to stimuli
 - **Conductivity:** conduct stimulus
 - **Extensibility:** can be stretched up to 3x resting length
 - **Elasticity:** ability to regain original state after stretching
- **Structure of muscle cell**
 - **Myocyte:** muscle cell
 - **Sarcoplasm:** myocytes cytoplasm
 - **Sarcolemma:** myocytes plasma membrane
 - **Sarcoplasmic reticulum:** modified endoplasmic reticulum
 - **Myofibrils:** unique structures found in all muscle cells
 - **Cylindrical organelles:** 100-1000s in each myocyte
 - **Bundles of specialized proteins**
 - **Other organelles packed between myofibrils**



Muscle Tissue Study Guide

James M. Ford



Muscle Tissue Study Guide:

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