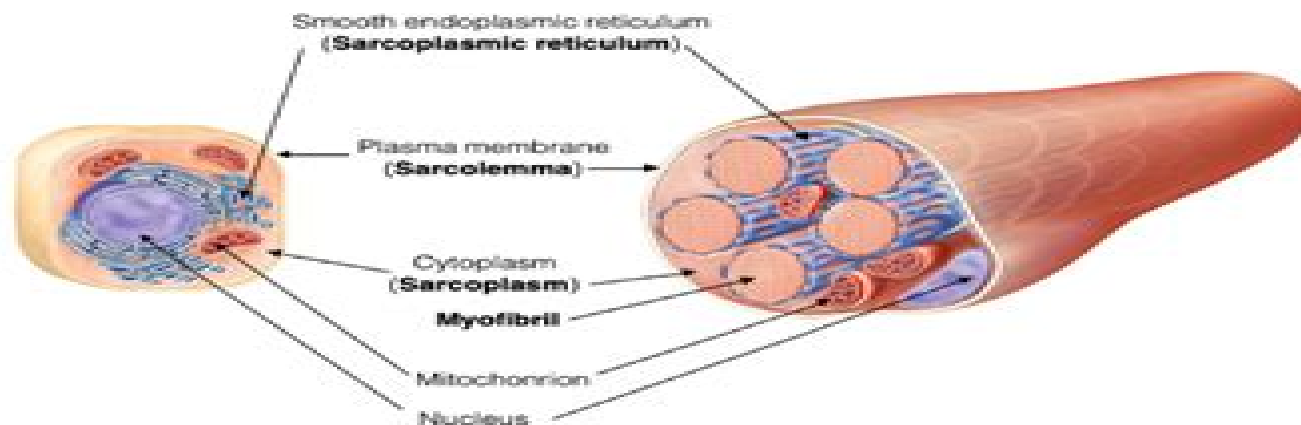


## Muscle tissue part 1

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

**Hussin A.Rothana**



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