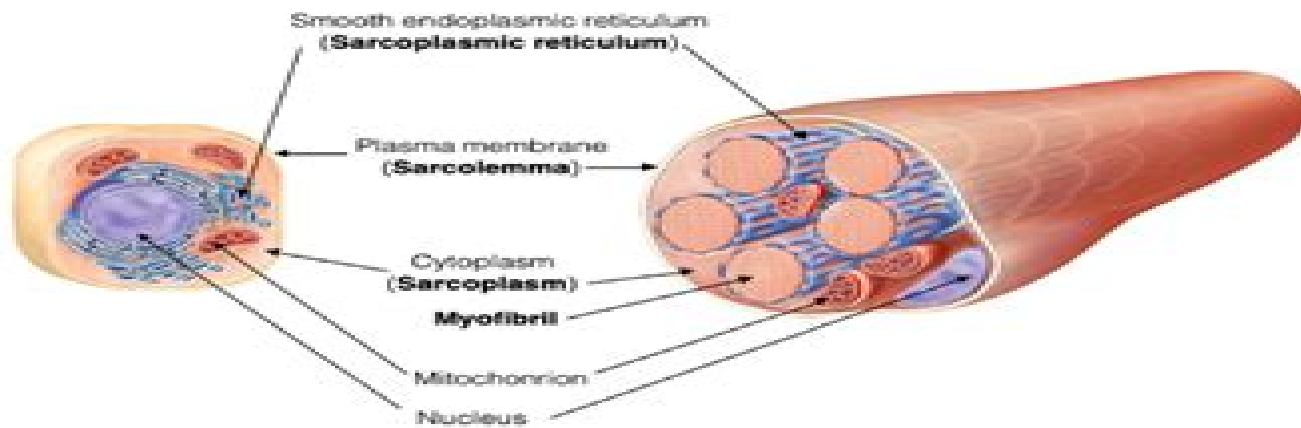


Muscle tissue part 1

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

Cybellium



Muscle Tissue Study Guide:

Study Guide for The Anatomy and Physiology Learning System Edith Applegate, 2010-03-30 Designed to accompany The Anatomy and Physiology Learning System 4th Edition by Edith Applegate this study guide helps you learn and review basic A P concepts Each chapter emphasizes medical terminology with a set of key terms word parts clinical terms and abbreviations and then adds a variety of fun filled learning exercises review questions a quiz and a word puzzle The study guide corresponds to the textbook chapter for chapter Chapter learning objectives help you focus on the most important material Key concepts are defined on the first page of each chapter in the workbook Learning exercises for each chapter include short answer matching and diagrams to label and color Self quizzes allow you to measure your progress and understanding Fun and Games features end each chapter with a variety of engaging puzzles covering words and concepts A chapter summary provides a brief review of each chapter A chapter review provides questions for reinforcement and review of the concepts in each chapter

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