

Muscular system

Muscles are soft tissues composed of tubular cells called myocytes

Half of the body weight is muscle tissue. Male – 40% & female – 32%

Properties of muscles

1. Contractility: muscle pulls & shorten with force
2. Excitability: from polarized to depolarized
3. Elasticity: return to original length during relaxation
4. Extensibility: can stretch or extend

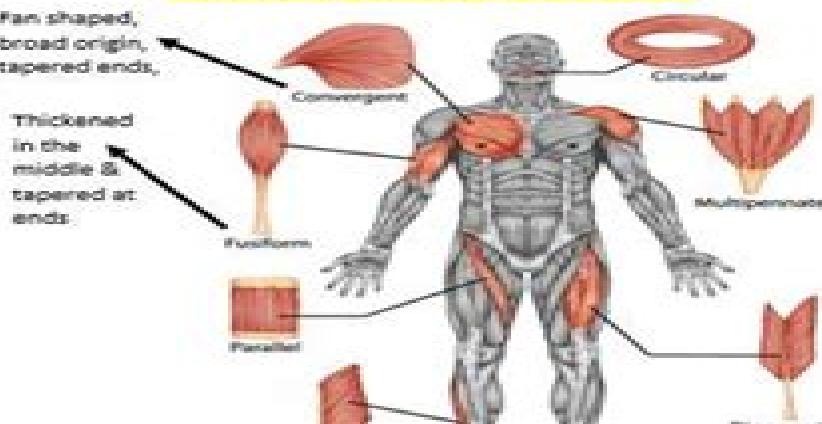
Functions of Muscles

- 1) Produce movement
- 2) Maintain posture
- 3) Stabilize joints
- 4) Produce heat

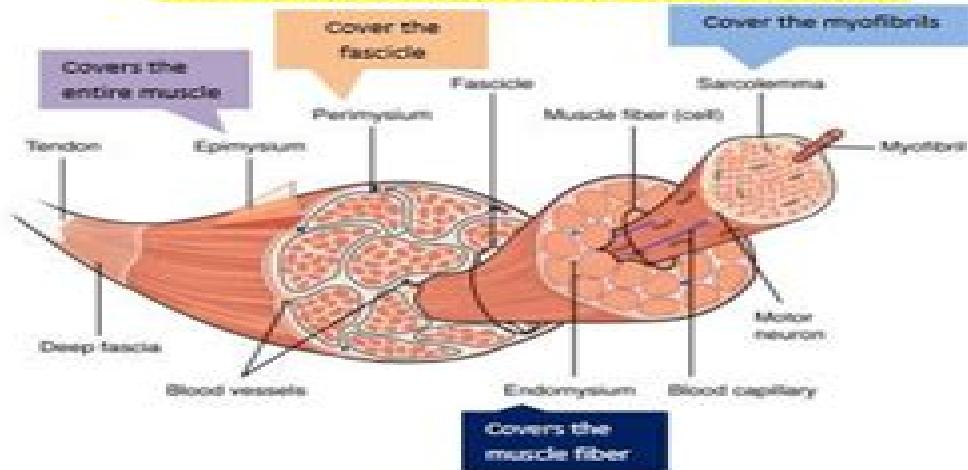
Types of muscles

	Main features:	Histology:
Skeletal muscle	<ul style="list-style-type: none"> Fibers: striated, tubular and multi nucleated Voluntary Usually attached to skeleton 	
Smooth muscle	<ul style="list-style-type: none"> Fibers: non-striated, spindle-shaped, and uninucleated Involuntary Usually covering wall of internal organs 	
Cardiac muscle	<ul style="list-style-type: none"> Fibers: striated, branched and uninucleated Involuntary Only covering walls of the heart 	

Classification of muscles



Connective Tissue Layers of Muscle

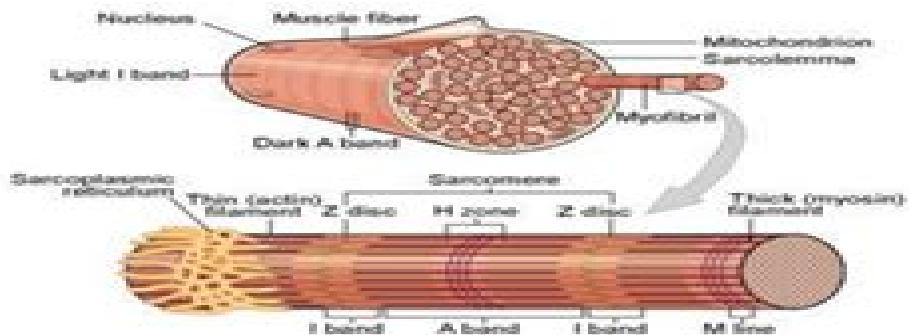


Muscle Fiber

Muscle Fiber: a single cylindrical muscle cell

Myofibril: a basic rod-like organelle of a muscle cell.

Sarcomere: the basic contractile unit of muscle fiber exists from Z-line to Z-line. It is responsible for striation.



A band: dark band (overlapping thick & thin filaments)

I band: light band (Thin filaments only)

Z disc: the lateral borders of sarcomeres and are the smallest functional units in striated muscle.

H zone: is in the center of the A band where there is no overlap between the thick and the thin filaments.

M line: attachment site for the thick filaments

Muscular Skeletal Systems Study Guide

T. Randall Lankford

Muscular Skeletal Systems Study Guide:

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Table of Contents Muscular Skeletal Systems Study Guide

1. Understanding the eBook Muscular Skeletal Systems Study Guide
 - The Rise of Digital Reading Muscular Skeletal Systems Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Muscular Skeletal Systems Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Muscular Skeletal Systems Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Muscular Skeletal Systems Study Guide
 - Personalized Recommendations
 - Muscular Skeletal Systems Study Guide User Reviews and Ratings
 - Muscular Skeletal Systems Study Guide and Bestseller Lists

5. Accessing Muscular Skeletal Systems Study Guide Free and Paid eBooks
 - Muscular Skeletal Systems Study Guide Public Domain eBooks
 - Muscular Skeletal Systems Study Guide eBook Subscription Services
 - Muscular Skeletal Systems Study Guide Budget-Friendly Options
6. Navigating Muscular Skeletal Systems Study Guide eBook Formats
 - ePUB, PDF, MOBI, and More
 - Muscular Skeletal Systems Study Guide Compatibility with Devices
 - Muscular Skeletal Systems Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Muscular Skeletal Systems Study Guide
 - Highlighting and Note-Taking Muscular Skeletal Systems Study Guide
 - Interactive Elements Muscular Skeletal Systems Study Guide
8. Staying Engaged with Muscular Skeletal Systems Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Muscular Skeletal Systems Study Guide
9. Balancing eBooks and Physical Books Muscular Skeletal Systems Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Muscular Skeletal Systems Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Muscular Skeletal Systems Study Guide
 - Setting Reading Goals Muscular Skeletal Systems Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Muscular Skeletal Systems Study Guide
 - Fact-Checking eBook Content of Muscular Skeletal Systems Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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