

# 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. Contractibility: 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

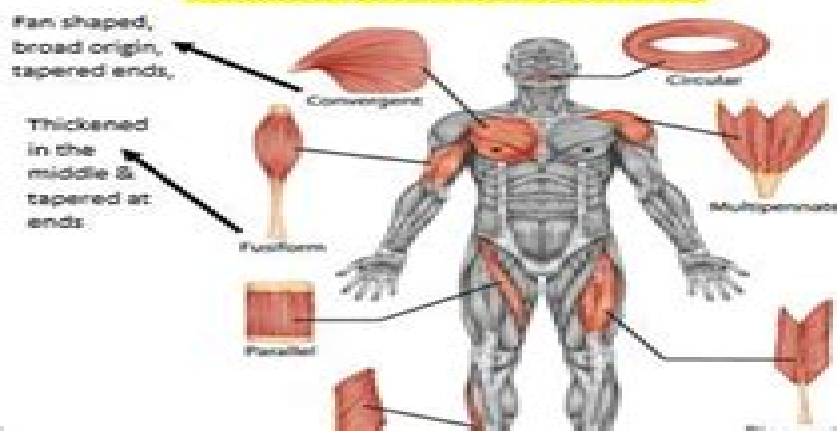
## Functions of Muscles

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

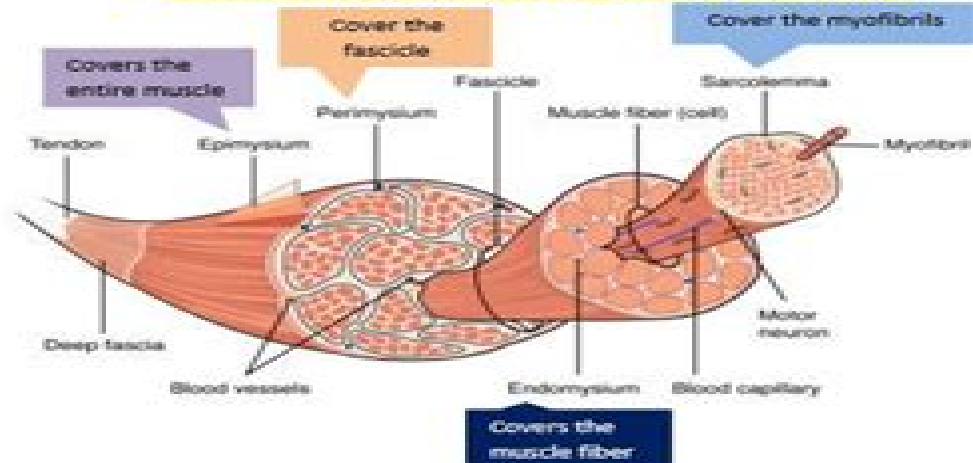
## Types of muscles

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

## Classification of muscles



## Connective Tissue Layers of Muscle

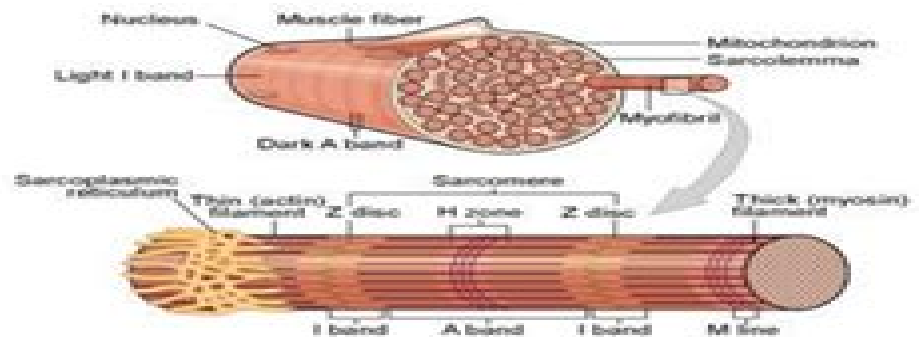


## Muscle Fiber

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

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Haywood, Nancy Getchell, 2018-10-30 Please note This text was replaced with a seventh edition This version is available only for courses using the sixth edition and will be discontinued at the end of the semester Life Span Motor Development Sixth Edition With Web Study Guide uses the model of constraints in discussing reasons for changes in movement throughout the life span Focusing on assessment more heavily than previous editions this updated edition encourages students to examine how the interactions of the individual environment and task bring about changes in a person's movements The principles of motor development are presented in an accessible manner so that even readers with minimal movement science background will comprehend the material A key component of the sixth edition is an improved web study guide featuring revised lab activities and better functionality New to this edition lab activity record sheets and questions are available as fillable documents so that students can complete and submit them electronically resulting in increased efficiency and reduced paperwork for instructors In several labs guided assessments teach students to observe video and categorize movements accurately These assessments cue students to look at particular parts of the movement and guide students through questions answers and feedback Then students are provided opportunities for unguided assessments via video clips or live observation putting into practice what they have learned in the guided assessments There are also over 100 new video clips in the web study guide including a comprehensive video diary of the motor development milestones in the first nine months of a baby's life Life Span Motor Development Sixth Edition contains several other updates that are appealing to instructors and students alike A new full color interior provides for a more engaging presentation of the material Updated research includes Generation R studies and connections to fitness and motor skills An updated presentation package and image bank plus a test package and chapter quizzes are included An instructor guide includes recommendations on using the lab activities in the web study guide both in and out of class Multiple learning exercises that were previously part of the web resource have been moved to the book to allow the video rich lab activities to occupy students learning time when they are online As in past editions students understand how maturational age and chronological age are distinct and how functional constraints affect motor skill development and learning It also covers normal and abnormal developmental issues across the full life span especially in the formative years The text shows how the four components of physical fitness cardiorespiratory endurance strength flexibility and body composition interact to affect a person's movements over the life span It also describes how relevant social cultural psychosocial and cognitive influences can affect a person's movements Significant updates focus on assessment including new figures that help to explain in detail the functional constraints approach to assessment Life Span Motor Development Sixth Edition not only provides students with the observational skills necessary for assessing motor

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*Study Guide to Accompany Structure and Function of the Body* Linda Swisher, Gary A. Thibodeau, 2003-11 This comprehensive resource provides a variety of exercises for readers to apply and test their knowledge It contains matching fill in the blanks crossword puzzles word find unscramble the word application questions diagrams and page number references in the answer key December 2003

**A Laboratory Manual and Study Guide for Anatomy and Physiology** Kenneth G. Neal, Barbara H. Kalbus, 1976

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**Study Guide [for]** Charles Seiger, 2000

*Student Study Guide to Accompany Human Biology* Sylvia S. Mader, 2003-08 This best selling text emphasizes the relationship between humans and other living things Intended for an introductory course this text provides students with a firm grasp of how their bodies function and how the human population can become more fully integrated into the biosphere An Online Learning Center tied directly to the text via icons will direct students to activities or animations that gives a visual example of difficult processes as well as Working Together boxes to emphasize homeostasis

**Integrated Science for Health Students** T. Randall Lankford, 1979

A Textbook of Anatomy and Physiology Jesse Feiring Williams, 1929

**Peterson's Annual Guides/graduate Study** Peterson's Guides, Inc, 1982

*The Comparative Physiology of Muscular Tissue* Arthur David Ritchie, 1928

**Films and Other Materials for Projection** Library of Congress, 1973

Anatomy & Physiology for Speech, Language, and Hearing John A. Seikel, Douglas W. King, David G. Drumright, 2005 Revised and updated with a vibrant new two color interior design this third edition of the best selling Anatomy and Physiology of Speech Language and Hearing continues to make anatomy and physiology accessible to the reader While organized around the classical framework of speech language and hearing systems anatomy and physiology components are treated separately to facilitate learning Clinical information is integrated with everyday experiences to underscore the relevance of anatomy and physiology to communication sciences Accompanied by the new Anatesse CD ROM which offers interactive learning materials self study tests diagrams animations and more this book provides the user with everything needed to master the content This exciting new edition is a must have comprehensive book on the science critical to understanding speech language swallowing and hearing systems

Glencoe Science: Human body systems, 2002

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