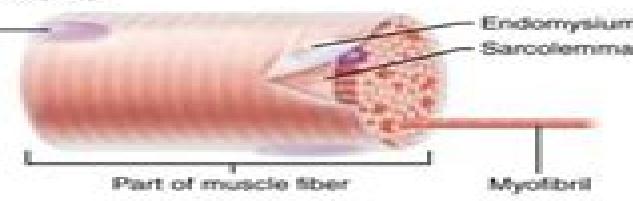
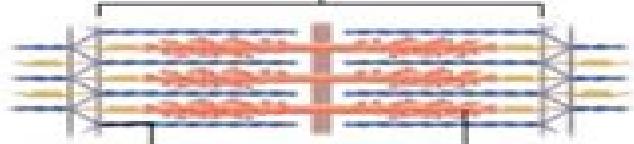


Table 9.1 Structure and Organizational Levels of Skeletal Muscle

STRUCTURE AND ORGANIZATIONAL LEVEL	DESCRIPTION	CONNECTIVE TISSUE WRAPPINGS
<b>Muscle (organ)</b>	A muscle consists of hundreds to thousands of muscle cells, plus connective tissue wrappings, blood vessels, and nerve fibers.	Covered externally by the epimysium
		
<b>Fascicle (a portion of the muscle)</b>	A fascicle is a discrete bundle of muscle cells, segregated from the rest of the muscle by a connective tissue sheath.	Surrounded by perimysium
		
<b>Muscle Fiber (cell)</b>	A muscle fiber is an elongated multinucleate cell; it has a banded (striated) appearance.	Surrounded by endomysium
		
<b>Myofibril or Fibil (complex organelle composed of bundles of myofilaments)</b>	Myofibrils are rodlike contractile elements that occupy most of the muscle cell volume. Composed of sarcomeres arranged end to end, they appear banded, and bands of adjacent myofibrils are aligned.	—
		
<b>Sarcomere (a segment of a myofibril)</b>	A sarcomere is the contractile unit, composed of myofilaments made up of contractile proteins.	—
		
<b>Myofilament or Filament (extended macromolecular structure)</b>	Contractile myofilaments are of two types—thick and thin. Thick filaments contain bundled myosin molecules; thin filaments contain actin molecules (plus other proteins). The sliding of the thin filaments past the thick filaments produces muscle shortening. Elastic filaments (not shown here) maintain the organization of the A band and provide elastic recoil when muscle contraction ends.	—
		

# Anatomy And Physiology Chapter Muscles

**Richard L. Lieber**

## **Anatomy And Physiology Chapter Muscles:**

**Skeletal Muscle Structure, Function, and Plasticity** Richard L. Lieber, 2002 In its Second Edition this text addresses basic and applied physiological properties of skeletal muscle in the context of the physiological effects from clinical treatment. Many concepts are expanded and recent studies on human muscle have been added. This new edition also includes more clinically relevant cases and stories. A two page full color insert of muscle sections is provided to ensure integral understanding of the concepts presented in the text. Anyone interested in human movement analysis and the understanding of generation and control from the musculoskeletal and neuromuscular systems in implementing movement will find this a valuable resource.

*The Muscles of the Eye: Anatomy and physiology, including instruments for testing and methods of measurement* Lucien Howe, 1907

**Essential Physiology for Dental Students** Kamran Ali, Elizabeth Prabhakar, 2019-02-04

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