

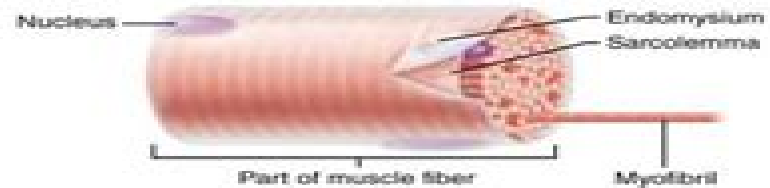

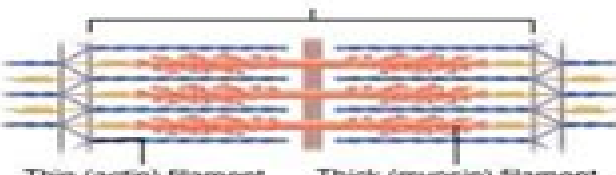
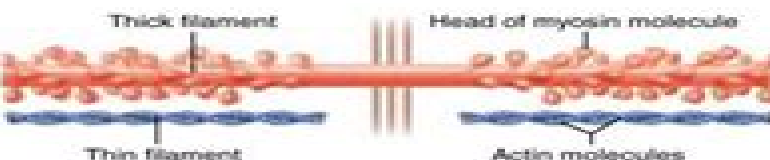


Table 9.1 Structure and Organizational Levels of Skeletal Muscle

STRUCTURE AND ORGANIZATIONAL LEVEL	DESCRIPTION	CONNECTIVE TISSUE WRAPPINGS
<p>Muscle (organ)</p> 	<p>A muscle consists of hundreds to thousands of muscle cells, plus connective tissue wrappings, blood vessels, and nerve fibers.</p>	<p>Covered externally by the epimysium</p>
<p>Fascicle (a portion of the muscle)</p> 	<p>A fascicle is a discrete bundle of muscle cells, segregated from the rest of the muscle by a connective tissue sheath.</p>	<p>Surrounded by perimysium</p>
<p>Muscle Fiber (cell)</p> 	<p>A muscle fiber is an elongated multinucleate cell; it has a banded (striated) appearance.</p>	<p>Surrounded by endomysium</p>
<p>Myofibril or Fibril (complex organelle composed of bundles of myofilaments)</p> 	<p>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.</p>	<p>—</p>
<p>Sarcomere (a segment of a myofibril)</p> 	<p>A sarcomere is the contractile unit, composed of myofilaments made up of contractile proteins.</p>	<p>—</p>
<p>Myofilament or Filament (extended macromolecular structure)</p> 	<p>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.</p>	<p>—</p>

Chapter 9 Muscles And Muscle Tissue

Elaine Nicpon Marieb



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