

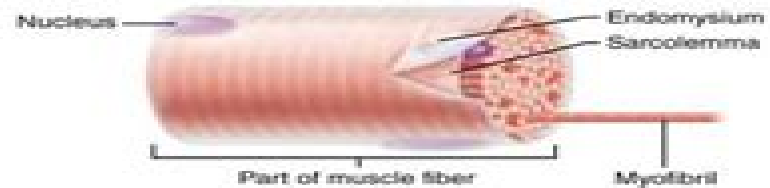

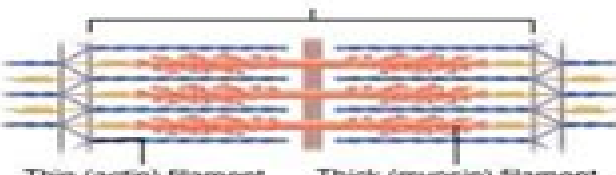
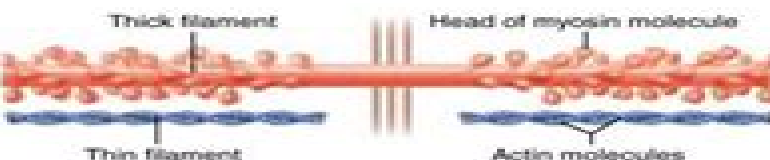


Table 9.1 Structure and Organizational Levels of Skeletal Muscle

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

Thomas Griffiths



Chapter 9 Muscles And Muscle Tissue:

Study Guide for The Human Body in Health & Disease - E-Book Kevin T. Patton, Frank B. Bell, Terry Thompson, Pegg L. Williamson, Eric L. Sun, 2023-03-02 Reinforce your understanding of the concepts in Patton's *The Human Body in Health & Disease* Corresponding to the chapters in the text this study guide reviews essential medical terminology concepts and processes related to anatomy and physiology and explains how body systems function in health and disease Each chapter begins with a quick synopsis of the key points in the textbook chapter A variety of exercises make it easier to review and apply key concepts and labeling of anatomy drawings helps in learning anatomical terms and structures Know your Medical Terms feature helps familiarize you with the various word parts used in medical terminology and pairs nicely with the Language of Medicine word lists in the main text to reinforce medical terminology concepts that are key to understanding A P Brief synopsis of core textbook concepts provides a comprehensive review of essential content Crossword Puzzles and Word Finds help you master new vocabulary terms Application Questions ask you to make judgments based on the information in the chapter Diagrams and labeling exercises help reinforce where the structures of the body are located Matching and fill in the blank exercises aid in understanding chapter content Answers to exercises are provided in the back of the guide along with references to the appropriate textbook page and the textbook objective so that you can easily find where the material is presented Study tips in the Preface provide an overview of the most effective methods for learning and retaining information

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attachments and actions as well as the relationships between different muscles in composite drawings Coverage of nutrition now in Chapter 12 includes information on the digestive process basics of solid nutrition how vitamins and minerals affect the body and how proper nutrition affects the functions of all systems of the body Enhanced pathology and indications contraindications appendix includes more illustrations to increase your understanding of what you may encounter during practice Improved biomechanics chapter activities that use photos instead of drawings help you better understand and apply gait assessment and muscle testing concepts

The Human Body in Health & Disease - E-Book Kevin T. Patton, Gary A. Thibodeau, 2017-01-11 No one explains A P more clearly The Human Body in Health Disease 7th Edition makes it easier to understand how the body works both in normal conditions and when things go wrong Its easy to read writing style more than 500 full color illustrations and unique Clear View of the Human Body transparencies keep you focused on the principles of anatomy physiology and pathology New to this edition are Connect It features with bonus online content and concept maps with flow charts to simplify complex topics From noted educators Kevin Patton and Gary Thibodeau this book presents A P in a way that lets you know and understand what is important More than 545 full color photographs and drawings bring difficult A P concepts to life and illustrate the most current scientific knowledge Clear conversational writing style breaks down information into brief chunks making principles easier to understand UNIQUE Clear View of the Human Body transparencies allow you to peel back the layers of the body with a 22 page full color insert showing the male and female human body along several planes Over 50 Animation Direct 3 D animations provide dynamic visual explanations for key concepts with callouts in the text directing you to these animations on the Evolve companion website Language of Science Language of Medicine presents lists of medical terms pronunciations and word parts to help you become familiar with A P terminology and the meanings of individual word parts Useful learning features include study tips chapter objectives case studies critical thinking questions summary boxes review questions and chapter tests A study guide reinforces your understanding of anatomy and physiology with a variety of practical exercises to help you review and apply key A P concepts Sold separately NEW and UNIQUE Connect It articles on the Evolve companion website provide bonus information for you to explore and are called out in the text NEW and UNIQUE Active Concept Maps on Evolve utilize animated and narrated flow charts to explain complex topics and are also called out in the text NEW Chapter objectives and Active Learning sections more closely tie objectives to the end of chapter material UPDATED Genetics chapter includes the latest and most important advances

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