Contractile Mechanisms in Skeletal Muscle 3.5

Learning Objectives

- Explain why muscle fibers are multinucleated
- Distingush among muscle fiber, myofibris, and myofilaments
- Identify the various cross-strations as evidenced by electron microscopy including the A-band, I-band, Z-line, M-line, and H-zone
- Define the sarcomere
- Describe which filaments are found in which microscopic zone of the sarcomere
- Be able to show the relationship among the sancoplasmic reticulum, T-tubules, and myofibrils
- Draw the length—tension curve using sarcomere length and explain the origin of its major points.
- Describe the structure of the thick filament and explain the origin of the bare zone and its width
- Name the constituents of the thin filament and each of their functions.
- Describe the polarity of thin filaments at the Z-disk.
- Explain the function of the cross-bridge cycle and write a simplified reaction mechanism.
- Describe how myosin isoforms generate muscle heterogeneity
- Define myoun turnover number and explain why it correlates with muscle speed
- Describe coxtameres and how force is thought to be distributed through the sarcolomma to the extraorilular matrix

INTRODUCTION

Chapter 3.4 has shown us how the overall muscle behaves: muscles are heterogeneous with respect to contractile properties. They can be classified according to their twitch times, velocity of shortening, and resistance to fatigue: fibers can be slow, fast fatigue resistant, fast intermediate, and fast fatigable. Muscle force can be graded by the recruitment of motor units, by varying the frequency of motor neuron firing, and by varying the length of the muscle. Of these, recruitment offers control of the greatest range of force, frequency the next greatest, and length the least. There is an inverse relationship between velocity and force of shortening. The power of the muscle peaks at about one-third maximal force and at about one-third maximal velocity. What we

seek now is some explanation of these overall behaviors in the subcellular and molecular description of muscle.

MUSCLE FIBERS HAVE A HIGHLY ORGANIZED STRUCTURE

Muscle fibers are typically large cells, some 20-100 µm in diameter and many centimeters long, with the longest fibers being about 12 cm. These cells are multinucleated, because they need many nuclei to govern protein synthesis and degradation. The nuclei are typically located near the periphery of the cell and often are more highly concentrated near the myoneural, or neuromascular, junction. The most striking feature of muscle cells viewed under the light microscope is their banded appearance. The fibers have stripes, or striations, that result from the highly organized arrangement of proteins in the muscle fiber. These striations consist of alternating A-bands and I-bands, named because the I-bands are isotropic to polarized light (meaning that they appear the same from all directions) whereas the A-bands are anisotropic to polarized light. The cross-striations are perpendicular to the long axis of the muscle fiber. Figure 3.5.1 shows the microscopic appearance of frog skeletal muscle fibers using phase contrast microscopy.

Muscle cells are also striated longitudinally by the organization of contractile proteins into tiny threads called myofibrils. These are generally cylinders of material about 1 µm in diameter that also clearly show crossstriations. The myofibrils are kept in register across the entire cell to give rise to the cross-striated appearance. The electron micrograph in Figure 3.5.2 shows how the striations in the myofibrils line up across the cell.

Just as each muscle fiber contains many myofibrils, each myofibril is in turn composed of many filaments. These filaments come in two main varieties: the thin filament and the thick filament. The major constituent of the thin filament is actin; the main component of the thick filament is neyosin. The microscopic striated appearance of the muscle is due to the way in which the filaments overlap each other.

The thick filaments define the beginning and end of the A-band. The myosin component of the A-band gives rise to the anisotropic behavior under polarized light. Because the thick filaments are 1.6 μm long, the A-band is also 1.6 μm long. Figure 3.5.3 shows a schematic illustration of the structure of the muscle fibers and myofibrils.

Contractile Mechanisms In Muscle

Haruo Sugi, Gerald H. Pollack

Contractile Mechanisms In Muscle:

Contractile Mechanisms in Muscle Gerald Pollack, 2013-03-13 Prior to the emergence of the sliding filament model contraction theories had been in abundance In the absence of the kinds of structural and biochemical information available today it has been a simple matter to speculate about the possible ways in which tension generation and shortening might occur The advent of the sliding filament model had an immediate impact on these theories within several years they fell by the wayside and attention was redirected towards mechanisms by which the filaments might be driven to slide by one another In terms of identifying the driving mechanism the pivotal observation was the electron micrographic indentification of cross bridges extending from the thick filaments It was quite naturally assumed that such bridges which had the ability to split ATP were the molecular motors i e that they were the sites of mechanochemical transduction Out of this presumption grew the cross bridge model in which filament sliding is presumed to be driven by the cyclic interaction of cross bridges with complementary actin sites located along the thin filaments Contractile Mechanisms in Muscle Gerald H. Molecular Mechanism of Muscle Contraction Haruo Sugi, G. Pollack, 1988-05 It is now Pollack, Haruo Sugi, 1984 widely recognized that fundamental progress in science is made not in a continuous manner but in a stepwise manner In the field of the molecular mechanism of contraction in striated muscle the stepwise progress was achieved by three great investigators in 1940 s and 1950 s In the early 1940 s Albert Szent Gyorgyi and his associates showed biochemically that muscle contraction is essentially an interaction between actin and myosin coupled with ATP hydrolysis Then in the 1950 s Hugh E Huxley together with Jean Hanson demonstrated that striated muscle is composed of a hexagonal lattice of two kinds of interdigitating myofilaments consisting of action and myosin respectively and made a monumental discovery that muscle contraction results from the relative sliding between the actin and myosin filaments Andrew F Huxley who also participated in the discovery of the sliding filament mechanism of muscle contraction was attributed to the attachment detachment cycle between the cross bridges extending from the myosin filament and the complementary sites on the actin filament After the above stepwise progress however muscle research appears to have entered into a period of so called normal science where detailed knowledge has been accumulating around the well established central dogmas but without fundamental progress More specifically most experiments on muscle contraction mechanisms have been designed carried out and interpreted on the basis of the Huxley s 1957 and the Huxley Simmons 1971 contraction models as well as the kinetic scheme of actomyosin ATPase but the molecular mechanism of contraction still remains to be a matter for debate and speculation For further fundamental progress in this field of research we feel it necessary to reconsider the validity of these dogmas and to interpret the results more freely In 1978 one of us H S organized a symposium in Tokyo based on the above idea and we published the proceedings under the title of Cross bridge Mechanism in Muscle Contraction ed H Sugi and G H Pollack University of Tokyo Press University Park Press 1979 The unusual interest of muscle physiologists in this symposium encouraged us to organize a

second symposium on muscle contraction in Seattle in 1982 and proceedings was again published under the title of Contractile Mechanisms in Muscle ed G H Pollack and H Sugi Plenum Publishing Corporation 1984 We were again very much encouraged by the intense interest of the people at the symposium as well as by readers of the proceedings and became convinced that the symposia of this kind would greatly accelerate the progress in this field The present symposium was organized by one of us H S as the third Cross bride symposium Though most papers are concerned as in the previous two symposia with experiments on intact and demembranated muscle fibers and isolated myofibrils where the three Dimensional muofilament lattice structures have been preserved the results are frequently discussed in connection with the kinetics of actomyosin ATPase reflecting the recent development of experimental methods connecting physiology and biochemistry It has also become possible to obtain direct information about the orientation and configuration of the cross bridges as various stages during muscle contraction Molecular Mechanisms in Muscular Contraction John Squire, 1990 There has been a lot of debate concerning the nature of the molecular mechanism that produces filament sliding and muscle shortening This book presents the different kinds of structural and mechanical evidence in favour of the swinging of myosin heads on actin during the contractile cycle Biomechanics and Neural Control of Posture and Movement Jack M. Winters, Patrick E. Crago, 2012-12-06 Most routine motor tasks are complex involving load transmission through out the body intricate balance and eye head shoulder hand torso leg coor dination. The guest toward understanding how we perform such tasks with skill and grace often in the presence of unpredictable perturbations has a long history This book arose from the Ninth Engineering Foundation Con ference on Biomechanics and Neural Control of Movement held in Deer Creek Ohio in June 1996 This unique conference which has met every 2 to 4 years since the late 1960s is well known for its informal format that promotes high level up to date discussions on the key issues in the field The intent is to capture the high quality of the knowledge and discourse that is an integral part of this conference series The book is organized into ten sections Section I provides a brief intro duction to the terminology and conceptual foundations of the field of move ment science it is intended primarily for students All but two of the re maining nine sections share a common format l a designated section editor 2 an introductory didactic chapter solicited from recognized lead ers and 3 three to six state of the art perspective chapters Some per spective chapters are followed by commentaries by selected experts that provide balance and insight Section VI is the largest section and it con sists of nine perspective chapters without commentaries **Deployable Structures** S. Pellegrino, 2014-05-04 Deployable structures can vary their shape automatically from a compact packaged configuration to an expanded operational configuration. The first properly engineered deployable structures were used as stabilization booms on early spacecraft Later on more complex structures were devised for solar arrays communication reflectors and telescopes In other fields there have been a variety of developments including retractable roofs for stadia foldable components for cars portable structures for temporary shelters and exhibition displays Three main themes are discussed in this book concepts

working principles and mechanics of deployable structures both in engineering and biology in addition theory of foldable bar structures and application to deployable tensegrieties formulation of large rotation analysis of deployable structures and Mechanisms of Vasodilatation Paul M. Vanhoutte, I. Leusen, 1978 finite element simulation methods Cross-bridge Vasodilator Mechanisms Paul M. Mechanism in Muscle Contraction Haruo Sugi, Gerald H. Pollack, 1979 Introduction to Biomedical Engineering John Enderle, Joseph Bronzino, 2012 Vanhoutte, Stephen F. Vatner, 1984 Introduction to Biomedical Engineering is a comprehensive survey text for biomedical engineering courses It is the most widely adopted text across the BME course spectrum valued by instructors and students alike for its authority clarity and encyclopedic coverage in a single volume Biomedical engineers need to understand the wide range of topics that are covered in this text including basic mathematical modeling anatomy and physiology electrical engineering signal processing and instrumentation biomechanics biomaterials science and tissue engineering and medical and engineering ethics Enderle and Bronzino tackle these core topics at a level appropriate for senior undergraduate students and graduate students who are majoring in BME or studying it as a combined course with a related engineering biology or life science or medical pre medical course NEW Each chapter in the 3rd Edition is revised and updated with new chapters and materials on compartmental analysis biochemical engineering transport phenomena physiological modeling and tissue engineering Chapters on peripheral topics have been removed and made availably online including optics and computational cell biology NEW many new worked examples within chapters NEW more end of chapter exercises homework problems NEW image files from the text available in PowerPoint format for adopting instructors Readers benefit from the experience and expertise of two of the most internationally renowned BME educators Instructors benefit from a comprehensive teaching package including a fully worked solutions manual A complete introduction and survey of BME NEW new chapters on compartmental analysis biochemical engineering and biomedical transport phenomena NEW revised and updated chapters throughout the book feature current research and developments in for example biomaterials tissue engineering biosensors physiological modeling and biosignal processing NEW more worked examples and end of chapter exercises NEW image files from the text available in PowerPoint format for adopting instructors As with prior editions this third edition provides a historical look at the major developments across biomedical domains and covers the fundamental principles underlying biomedical engineering analysis modeling and design Bonus chapters on the web include Rehabilitation Engineering and Assistive Technology Genomics and Bioinformatics and Computational Cell Biology and Complexity Comparative Physiology Lancelot Thomas Hogben, 1926 **Proceedings of the Royal Society of London** Royal Society (Great Britain),1922 Publishes refereed research papers in all aspects of the biological sciences As a fast track journal it specialises in the rapid delivery of the latest research to the scientific community

Neurophysiology of Postural Mechanisms Tristan David Martin Journal of Nervous and Mental Disease, 1926 July 1918 1943 include reports of various neurological and Roberts, 1978

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