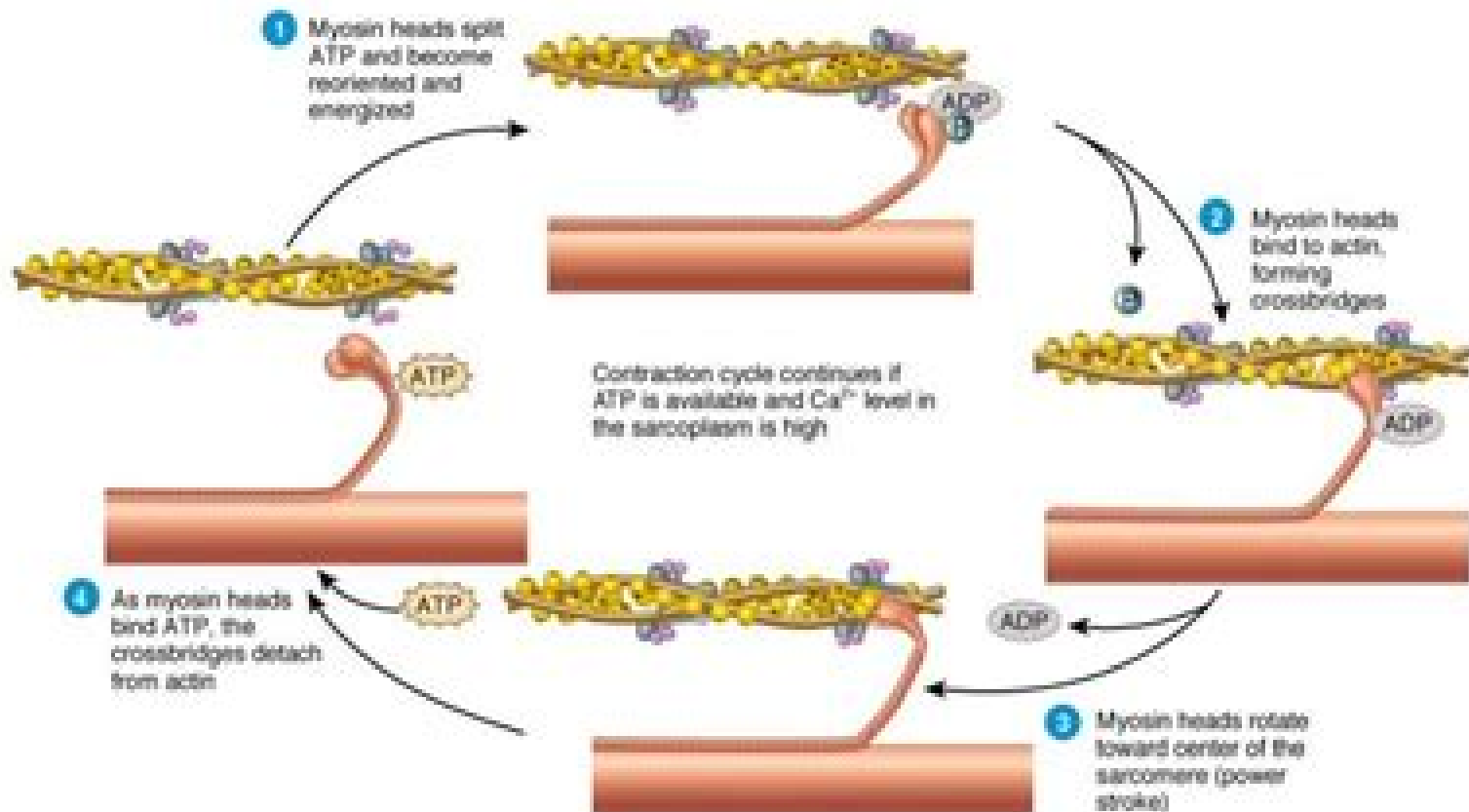


# Steps of a Muscle Contraction

## □ Sliding filament theory



# **Muscle Contraction Answers Msjensen**

**Newman L. Stephens**



## **Muscle Contraction Answers Msjensen:**

Muscle Contraction Clive R. Bagshaw, 1993 Movement in living organisms is achieved by many different mechanisms of which muscle contraction is one of the most studied and best understood Nevertheless the precise details of muscle action at the molecular level are still being evaluated This book provides a concise account of our understanding to date

Mechanism of Muscular Contraction Jack A. Rall, 2014-10-21 This book describes the evolution of ideas relating to the mechanism of muscular contraction since the discovery of sliding filaments in 1954 An amazing variety of experimental techniques have been employed to investigate the mechanism of muscular contraction and relaxation Some background of these various techniques is presented in order to gain a fuller appreciation of their strengths and weaknesses Controversies in the muscle field are discussed along with some missed opportunities and false trails The pathway to ATP and the high energy phosphate bond will be discussed as well as the discovery of myosin contraction coupling and the emergence of cell and molecular biology in the muscle field Numerous figures from original papers are also included for readers to see the data that led to important conclusions This book is published on behalf of the American Physiological Society by Springer Access to APS books published with Springer is free to APS members *Regulation of Smooth Muscle Contraction* Robert S.

Moreland, 2012-12-06 Sixth Annual Graduate Hospital Research Symposium REGULATION OF SMOOTH MUSCLE PROGRESS IN SOLVING THE PUZZLE Every so often a scientific conference comes at a time when everyone has new and exciting information when old dogmas do not seem to be as well established and when speakers and participants alike are ready to challenge interpretations of old and new experimental data This was such a conference What turns on a smooth muscle cell The precise answer to this question has eluded scientists for much longer than I have been involved in the field We know that an increase in cytosolic calcium is necessary and we know that phosphorylation of the 20 kDa myosin light chain is an important step in the process We do not know if other processes are necessary for the initiation and maintenance of a smooth muscle contraction nor do we know if other processes modulate the regulation of contraction The goal of the symposium on which this volume is based was to explore the most current hypotheses for the answers to these questions I believe that after reading the chapters included in this volume you will agree that this goal was achieved The importance of calcium and calmodulin dependent myosin light chain phosphorylation in the regulation of smooth muscle contraction was reinforced by many presentations However the status of myosin light chain phosphorylation as a simple calcium dependent switch came under serious suspicion *Regulation of Smooth Muscle Contraction* Robert S

Moreland, 1992-01-31 **The Structural Basis of Muscular Contraction** John Squire, 2012-12-06 Muscular contraction provides one of the most fascinating topics for a biophysicist to study Although muscle comprises a molecular machine whereby chemical energy is converted to mechanical work its action in producing force is something that is readily observable in everyday life a feature that does not apply to most other structures of biophysical interest In addition muscle is

so beautifully organized at the microscopic level that those important structural probes electron microscopy with the associated image analysis methods and X ray diffraction have provided a wealth of information about the arrangements of the constituent proteins in a variety of muscle types But despite all this the answer to the question How does muscle work is still uncertain especially with regard to the molecular events by which force is actually generated and the question remains one of the major unsolved problems in biology With this problem in mind this book has been written to collect together the available evidence on the structures of the muscle filaments and on their arrangements in different muscle cells to extract the common structural features of these cells and thus to attempt to define a possible series of mechanical steps that will describe at molecular resolution the process by which force is generated The book cannot be considered to be an introductory text in fact it presents a very detailed account of muscle structure as gleaned mainly from electron microscopy and X ray diffraction

*The Sliding-Filament Theory of Muscle Contraction* David Aitchison Smith, 2019-02-05

Understanding the molecular mechanism of muscle contraction started with the discovery that striated muscle is composed of interdigitating filaments which slide against each other Sliding filaments and the working stroke mechanism provide the framework for individual myosin motors to act in parallel generating tension and loaded shortening with an efficient use of chemical energy Our knowledge of this exquisitely structured molecular machine has exploded in the last four decades thanks to a bewildering array of techniques for studying intact muscle muscle fibres myofibrils and single myosin molecules After reviewing the mechanical and biochemical background this monograph shows how old and new experimental discoveries can be modelled interpreted and incorporated into a coherent mathematical theory of contractility at the molecular level The theory is applied to steady state and transient phenomena in muscle fibres wing beat oscillations in insect flight muscle motility assays and single molecule experiments with optical trapping Such a synthesis addresses major issues most notably whether a single myosin motor is driven by a working stroke or a ratchet mechanism how the working stroke is coupled to phosphate release and whether one cycle of attachment is driven by the hydrolysis of one molecule of ATP Ways in which the theory can be extended are explored in appendices A separate theory is required for the cooperative regulation of muscle by calcium via tropomyosin and troponin on actin filaments The book reviews the evolution of models for actin based regulation culminating in a model motivated by cryo EM studies where tropomyosin protomers are linked to form a continuous flexible chain It also explores muscle behaviour as a function of calcium level including emergent phenomena such as spontaneous oscillatory contractions and direct myosin regulation by its regulatory light chains Contraction models can be extended to all levels of calcium activation by embedding them in a cooperative theory of thin filament regulation and a method for achieving this grand synthesis is proposed Dr David Aitchison Smith is a theoretical physicist with thirty years of research experience in modelling muscle contractility in collaboration with experimental groups in different laboratories

**Molecular and Cellular Aspects of Muscle Contraction** Haruo Sugi, 2003 This volume presents the proceedings of a

muscle symposium which was held as the Fourth Fujihara seminar on October 28 November 1 2002 at Hakone Japan This volume covers all fields of muscle biology from molecules to humans This book provides information about recent progress of muscle research as well as the problems that remain to be investigated This volume will stimulate muscle investigators to design and perform novel experiments to clarify the mysteries in muscle contraction *Muscle Contraction* Clive R. Bagshaw,1992-12-14 **Smooth Muscle Contraction** Newman L. Stephens,1984 **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 **Reflections on Muscle** Andrew Huxley,Sir Andrew Huxley,1980 Muscular Contraction and the Reflex Control of Movement John Farquhar Fulton,1926 This book includes a valuable and extensive bibliography with historical introduction on pages 3 44 It is a detailed study of the physiology of skeletal muscle **Mysteries in Muscle Contraction** Haruo Sugi,2017-12-22 This book explores the author's wide ranging work on muscle research which spans more than 50 years It delves into the dogmas of muscle contraction how the models were constructed and what was overlooked during the process including their resulting shortcomings The text stimulates general readers and researchers interest highlights the author's pioneering work on the electron microscopic recording of myosin head power and recovery strokes and presents a frank discussion on how the original work sometimes tends to be overlooked by competing scientists who hinder the progress of science **Muscular Contraction** Robert Malcolm Simmons,1992-06-26 Composed of a set of chapters contributed by past and present collaborators of the Nobel laureate Sir Andrew Huxley this book covers the areas of muscle research to which Huxley made major contributions The purpose of the book is to discuss the way that muscles work asking questions at a fundamental level about the molecular basis of muscle tone production and muscle contraction The majority of the chapters are concerned with muscle physiology and the relation between structure and function The process of activation of muscles is discussed along with the mechanism of contraction itself Although most of the book deals with vertebrate skeletal muscle several chapters cover cardiac muscle Also featured are two chapters discussing Sir Andrew's achievements in both nerve and muscle physiology Comparative Physiology of the Nervous Control of Muscular Contraction Graham Hoyle,1957 *Regulation and Contraction of Smooth Muscle* International Union of Physiological Sciences. Satellite Conference on Smooth Muscle Contraction,Marion J. Siegman,Andrew Paul Somlyo,Newman L. Stephens,International Union of Physiological Sciences. Congress,1987 *Muscle Contraction* Setsurō Ebashi,Makoto Endō,Koscak Maruyama,1980 **The Kinetics of Muscle Contraction** John Thorson,David Clifford Stephen White,1975 Molecular Mechanism of Muscle Contraction Haruo Sugi,Gerald H. Pollack,1988 It is now 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 actin 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 bridge 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 myofilament 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 at various stages during muscle contraction

**Muscles & Molecules** Gerald H. Pollack, 1990 An award winning book that topples the widely accepted edifice of understanding on how muscles contract replacing it with a simpler construct that better fits the evidence This is a beautifully produced single authored text by one of our more thoughtful if unconventional authorities on the mechanism of muscular contraction Clearly and elegantly written and with a charm and grace not often seen in modern scientific writing

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