

ADVANCES IN EXPERIMENTAL MEDICINE AND BIOLOGY

Volume 565

# **Sliding Filament Mechanism In Muscle Contraction Fifity Years Of Research**

**Siddappa N.Byrareddy** 

## **Sliding Filament Mechanism In Muscle Contraction Fifity Years Of Research:**

Sliding Filament Mechanism in Muscle Contraction Haruo Sugi, 2007-04-27 Sliding Filament Mechanism in Muscle Contraction Fifty Years of Research covers the history of the sliding filament mechanism in muscle contraction from its discovery in 1954 by H E Huxley through and including modern day research Chapters include topics in dynamic X ray diffraction electron microscopy muscle mechanisms in vitro motility assay cardiac versus smooth muscle motile systems and 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 Mathematical Mechanics: From Particle To Muscle Ellis D Cooper, 2011-03-28 This unprecedented book offers all the details of the mathematical mechanics underlying modern modeling of skeletal muscle contraction. The aim is to provide an integrated vision of mathematics physics chemistry and biology for this one understanding The method is to take advantage of latest mathematical technologies Eilenberg Mac Lane category theory Robinson infinitesimal calculus and Kolmogorov probability theory to explicate Particle Mechanics The Theory of Substances categorical thermodynamics and computer simulation using

a diagram based parallel programming language stochastic timing machinery Proofs rely almost entirely on algebraic calculations without set theory Metaphors and analogies and distinctions between representational pictures mental model drawings and mathematical diagrams are offered AP level high school calculus students high school science teachers undergraduates and graduate college students and researchers in mathematics physics chemistry and biology may use this integrated publication to broaden their perspective on science and to experience the precision that mathematical mechanics brings to understanding the molecular mechanism vital for nearly all animal behavior *Mysteries in Muscle Contraction* Haruo Suqi, 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 Neuromuscular Fundamentals Nassir H. Sabah, 2020-11-29 This book is rather unique in its approach and of science coverage The approach is essentially that of an engineering textbook emphasizing the quantitative aspects and highlighting the fundamentals and basic concepts involved The coverage progresses in a logical and systematic manner from the subcellular starting with the electrophysiology of the cell membrane then proceeding to synapses neurons and muscle before considering neuronal motor ensembles and the neuromuscular system as a whole Simple clear and comprehensive explanations are given throughout After an introductory chapter on some background material in biology biophysics and chemical kinetics a substantial part of the book Chapters 2 8 necessarily covers in considerable detail the basic components and processes that underlie the electrical and associated activities of the nervous system The remaining chapters of the book Chapters 9 13 focus on the neuromuscular system starting with the structure of muscle cells the generation of force by muscular contraction and muscle receptors The last chapter examines aspects of the control of movement motor learning and memory the maintenance of posture and locomotion and critically examines some of the theories that have been advanced to explain how movement is controlled The book is intended for undergraduate or graduate students in the natural sciences mathematics or engineering who seek a deeper understanding of the fundamentals of neuroscience and the somatomotor system in accordance with the aforementioned objectives The book can serve as a textbook for a one semester course on the neuromuscular system or as a reference in a more general course on neuroscience Provides a thorough analytical treatment of membrane electrophysiology starting from the first principles Emphasizes strongly the basic and fundamental concepts throughout Discusses thoroughly the essential features and properties of the basic constituents of the nervous system that is neurons and synapses including the neuromuscular junction Explains the main aspects of posture locomotion and control of movement Includes practice problems throughout the text and a solutions manual will be available for adopting professors

Nassir Sabah is professor of biomedical engineering in the electrical and computer engineering department at the American University of Beirut Lebanon He received his B Sc Hons Class I and his M Sc in electrical engineering from the University of Birmingham U K and his Ph D in biophysical sciences from the State University of New York SUNY Buffalo He has served as Chairman of the Electrical Engineering Department Director of the Institute of Computer Studies and Dean of the Faculty of Engineering and Architecture at the American University of Beirut In these capacities he was responsible for the development of programs curricula and courses in electrical biomedical communications and computer engineering Professor Sabah has extensive professional experience in the fields of electrical engineering electronics and computer systems with more than 35 years teaching experience in neuroengineering biomedical engineering electronics and electric circuits He has over 100 technical publications mainly in neurophysiology biophysics and biomedical instrumentation He has served on numerous committees and panels in Lebanon and the region He is a Fellow of the Institution of Engineering and Technology IET U K a member of the American Association for the Advancement of Science AAAS and a member of the American Society for Engineering Education ASEE Oxygen Transport to Tissue XXVI Paul Okunieff, Jacqueline P. Williams, Yuhchyau Chen, 2006-06-18 The International Society of Oxygen Transport to Tissue ISOTT was founded in 1973 to provide a forum for bioengineers basic scientists physiologists and physicians to discuss new data original theories new interpretations of old data and new technologies for the measurement of oxygen At each annual meeting all posters are presented orally along with plenary lectures and all presentations are given in a general session attended by everyone Each meeting has had a specific focus ranging from neonatology to physical chemistry to cancer biology The Society has helped to build many careers through opportunities to meet leaders in the field and through awards made to young physicians and scientists The Society also through cross fertilization of ideas and scientific comradery has inspired many breakthroughs in clinical medicine that now benefit mankind I find myself president of the society after having been a winner of the Melvin Knisely Award for young scientists in 1991 The 2003 meeting emphasized the role of oxygen and oxygen measurement in tumor growth metastasis physiology and treatment resistance Additionally however completely novel approaches to measurement of tissue oxygen were presented notably work by Dr Takahashi and molecular methods for estimating tissue oxygen were evaluated Papers discussing other aspects of oxygen measurement and pathophysiology were presented including in vivo ESR spectroscopy notably including Dr Swartz and colleagues exercise physiology organ transplant outcome discussed by Dr Cicco our 2004 president circulatory physiology and cerebral oxygenation notably including Dr Chance The Growth Hormone/Insulin-Like Growth Factor Axis during Development Isabel Varela-Nieto, Julie Ann Chowen, 2005-12-17 Insulin like growth factor IGF I is a widely expressed growth factor with diverse effects on many tissues throughout development and in adult life The purpose of this work is to provide detailed and updated information on the role of the growth hormone GH IGF axis in fetal and postnatal development as well as its physiological functions and implications in

pathology **Brain Repair** Mathias Bähr, 2007-03-06 Brain Repair addresses all relevant issues underlying the mechanisms of brain damage brain plasticity and post traumatic reorganisation after CNS lesions This book is divided the three major sections that follow cellular and molecular basis of brain repair plasticity and reorganisation of neural networks and experimental therapy strategies Brain Repair is written by high profile international experts who describe in detail the newest results from basic research and highlight new model systems techniques and therapy approaches Based on a careful analysis of the cellular and molecular reaction patterns of the CNS to lesions the contributions cover possibilities for endogenous reorganisation and repair as well as exciting new therapies emerging from basic research some of which have already been introduced into the clinics Thus this book is unique in bridging the gap between basic and clinical research It will be a valuable tool for all students researchers and clinicians interested in understanding the brain's capacity to cope with lesions and interested in learning about emerging new therapy concepts **Hot Topics in Infection and Immunity** in Children II Andrew J. Pollard, Adam Finn, 2007-04-27 Hot Topics in Infection and Immunity II provides a current view from leading experts concerning the hottest topics of concern to clinicians caring for children with infections The book brings together a collection of manuscripts from a faculty of authors of international standing who contributed to a course in Paediatric Infection and Immunity in Oxford UK in June 2004 **Glycobiology and Medicine** John S. Axford, 2006-01-27 The potential for glycobiology to improve the practice of medicine has been well recognised which is why biannual meetings concerning the association have been taking place for the last 14 years. The science of glycobiology has matured rapidly and with it the far reaching clinical implications are becoming understood The next decade is going to see this final frontier of science conquered The impact this understanding of glycobiology will have upon our practice of medicine is going to be exciting The 7th Jenner Glycobiology and Medicine Symposium was designed to reflect these advances All the major clinical areas were involved with contributions from pivotal players in science and medicine Advances in Food Mycology Ailsa D. Hocking, John I. Pitt, Robert A. Samson, Ulf Thrane, 2006-08-29 This book represents the Proceedings of the Fifth International Workshop on Food Mycology which was held on the Danish island of Sams from 15 19 October 2003 This series of Workshops c menced in Boston USA in July 1984 from which the proceedings were published as Methods for Mycological Examination of Food edited by A D King et al published by Plenum Press New York 1986 The second Workshop was held in Baarn the Netherlands in August 1990 and the proceedings were published as Modern Methods in Food Mycology edited by R A Samson et al and published by Elsevier Amsterdam 1992 The Third Workshop was held in Copenhagen Denmark in 1994 and the Fourth near Uppsala Sweden in 1998 The proceedings of those two workshops were p lished as scientific papers in the International Journal of Food Microbiology International Workshops on Food Mycology are held under the auspices of the International Commission on Food Mycology a Commission under the Mycology Division of the International Union of Microbiological Societies Details of this Commission are given in the final chapter of this book This Fifth Workshop was

organised by Ulf Thrane Jens Frisvad Per V Nielsen and Birgitte Andersen from the Center for Microbial Biotechnology Technical University of Denmark Kgs Lyngby v vi Foreword Denmark Early Nutrition and its Later Consequences: New Opportunities Berthold Koletzko, Peter Dodds, Hans Akerblom, Margaret Ashwell, 2006-03-30 Health problems such as hypertension tendency to diabetes obesity blood lipids vascular disease bone health behaviour and learning and longevity may be imprinted during early life. This process is defined as programming whereby a nutritional stimulus operating at a critical sensitive period of pre and postnatal life imprints permanent effects on the structure physiology and metabolism For this reason academics and industry set up the EC supported Scientific Workshop Early Nutrition and its Later Consequences New Opportunities The prime objective of the Workshop was to generate a sound exchange of the latest scientific developments within the field of early nutrition to look for opportunities for new preventive health concepts Further a closer look was taken at the development of food applications which could provide future mothers and infants with improved nutrition that will ultimately lead to better future health The Workshop was organised by the Dept of Pediatrics University of Munich Germany in collaboration with the Danone Institutes and the Infant Nutrition Cluster a collaboration of three large research projects funded by the EU **Retinal Degenerative Diseases** Joe G. Hollyfield, Robert E. Anderson, Matthew M. LaVail,2007-08-06 Retinal Degenerations is the result of the International Symposium on Retinal degeneration which has become perhaps the most important research meeting in the field THe topics in this volume explore the etiology cellular mechanisms epidemiology genetics models and potential therapeutic measures for the blinding diseases of retinitis pigmentosa and age related macular degeneration Updates in Diagnostic Pathology David C. Chhieng, Gene P. Siegal, 2007-05-31 by CDs but we continue to utilize the same general format of morning didactics and afternoon glass slide review and small group interactions One of our biggest successes was in the ever expanding set of didactic lecture notes and radiologic gross microscopic ultrastructural and other images that course participants received so it wasn t much of a surprise when we were approached by the publisher to consider creating an updated compilation of some of the best talks and packaging them in a monograph available to a broader population of physicians and scientists With the extraordinary attention to detail that he is known for my co editor David Chhieng has been both the brains and the brawn of this project resulting in the bringing together of such a collection while trying to be sensitive and representative of the various branches of pathology reflected in the actual course From surgical pathology chapters cover select topics in endocrine gynecologic GU and GI pathology with contributions from Walter Bell Michael Conner Katrin Klemm and Audrey Lazenby respectively Tom Winokur has begun to prepare us for the near future with a treatise on molecular markers in breast cancer The interactive nature of cytopathology and surgical pathology are brought together by Claudia Castro now at the U T Medical Branch at Galveston and David Chhieng in three chapters covering mediastinal pleural and pulmonary pathology Early Life Origins of Health and Disease E. Marelyn Wintour-Coghlan, Julie Owens, 2007-02-26 Early Life Origins of Health and Disease is a new book which presents and discusses the many factors that may have impact on normal development In a concise and readable manner the authors consider both the proven and suggestive evidence that the high prevalence of hypertension diabetes obesity and in some populations kidney disease may not be all due to genetics or adult environment alone There is good evidence that stress and more subtle dietary deficiencies as well as placental malfunction may increase the risk that the offspring will develop these problems in later life Finally new and emerging evidence for other areas of human health and disease such a motor control and mental health is critically reviewed for the first time. The book is a must for all scientists interested in researching these areas as there is a critical evaluation of the methodology used and suggestions for the optimal way in which to investigate these phenomena Neurociencia aplicada Daniel P. Cardinali, 2007 Analiza las reglas que vinculan la anatom a y fisiolog a del cerebro con la percepci n movimiento sentimientos y cognici n la manera en que se arriba a estas reglas examinando tanto la funci n de las c lulas nerviosas individuales como la del cerebro en su conjunto y la forma en que los componentes gen ticos y factores ambientales modifican conductas cerebrales espec ficas La lectura del manual es f cil y la comprensi n est asegurada para todos aquellos que se inician en la fisiolog a del Sistema Nervioso o bien pretenden refrescar los conocimientos del mismo Uno de los mayores desaf os que enfrenta el conocimiento humano actual es comprender y explicar las bases biol gicas de la cognici n y la emoci n es decir c mo percibimos actuamos aprendemos sentimos y recordamos En el marco de las neurociencias esta magn fica obra analiza las reglas que vinculan la anatom a y la fisiolog a del cerebro con la percepci n el movimiento los sentimientos y la cognici n la manera en que se arriba a estas reglas examinando tanto la funci n de las c lulas nerviosas individuales como la del cerebro en su conjunto y la forma en que los componentes gen ticos y los factores ambientales modifican las conductas cerebrales espec ficas 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 Cross-bridge Mechanism in Muscle Contraction Haruo Sugi, Gerald H. Pollack, 1979 Biochemical Basis of Medicine Eric D. Wills, 2014-04-24 Biochemical Basis of Medicine discusses academic biochemistry and the applications of biochemistry in medicine This book deals with the biochemistry of the subcellular organelles the biochemistry of the body and of the specialized metabolism occurring in many body tissues

This text also discusses the various applications of biochemistry as regards environmental hazards as well as in the diagnosis of illnesses and their treatment This text explains the structure of the mammalian cell the cell's metabolism the nutritional requirements of the whole body and the body s metabolism This book explains the specialized metabolisms involved in tissues such as those occurring in blood clotting in the liver during carbohydrate metabolism or in the kidneys during water absorption The text explains toxicology or biochemical damage caused by excess presence of copper mercury or lead in the body Chelation therapy can remove these toxic metals This book describes the effects of alcohol on plasma liquids the multistage concept of carcinogenesis and the biochemical basis of diagnosis Diagnosis and treatment include the determination of typical enzymes found in the plasma tests for genetic defects in blood proteins and the use of chemotherapeutic drugs This book is suitable for chemists students and professors in organic chemistry and laboratory technicians whose work is related to pharmacology Encyclopedia of Cell Biology, 2015-08-07 The Encyclopedia of Cell Biology Four Volume Set offers a broad overview of cell biology offering reputable foundational content for researchers and students across the biological and medical sciences This important work includes 285 articles from domain experts covering every aspect of cell biology with fully annotated figures abundant illustrations videos and references for further reading Each entry is built with a layered approach to the content providing basic information for those new to the area and more detailed material for the more experienced researcher With authored contributions by experts in the field the Encyclopedia of Cell Biology provides a fully cross referenced one stop resource for students researchers and teaching faculty across the biological and medical sciences Fully annotated color images and videos for full comprehension of concepts with layered content for readers from different levels of experience Includes information on cytokinesis cell biology cell mechanics cytoskeleton dynamics stem cells prokaryotic cell biology RNA biology aging cell growth cell Injury and more In depth linking to Academic Press Elsevier content and additional links to outside websites and resources for further reading A one stop resource for students researchers and teaching faculty across the biological and medical sciences

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