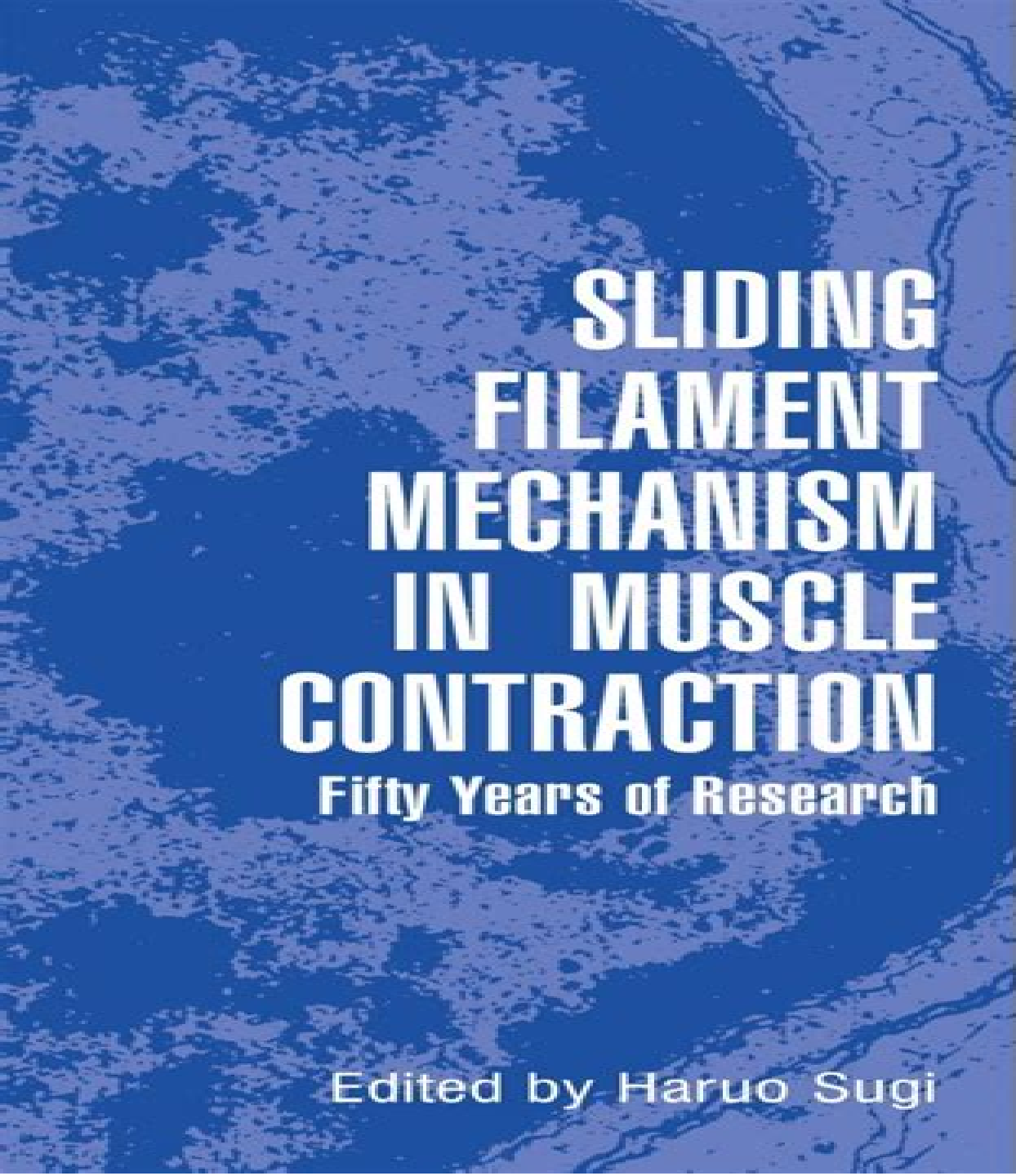


A blue-tinted electron micrograph of muscle tissue, showing the striated pattern of myofibrils with alternating light and dark bands.

# **SLIDING FILAMENT MECHANISM IN MUSCLE CONTRACTION**

**Fifty Years of Research**

**Edited by Haruo Sugi**

ADVANCES IN  
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Volume 565

# Sliding Filament Mechanism In Muscle Contraction Fifty Years Of Research

**Mathias Bähr**



## **Sliding Filament Mechanism In Muscle Contraction Fifty 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 much more

**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

**Neuromuscular Fundamentals** Nassir H. Sabah, 2020-11-29 This book is rather unique in its approach and 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

**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 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 **Oxygen Transport to Tissue XXVI** Paul Okunieff, Jacqueline P. Williams, Yuhchayau 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 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 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 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 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

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