



Mechanism Of Myofilament Sliding In Muscle Contraction

Manuel Doblare, Jose Merodio



Mechanism Of Myofilament Sliding In Muscle Contraction:

Mechanism of Myofilament Sliding in Muscle Contraction Haruo Sugi, Gerald H. Pollack, 2012-12-06 This volume presents the entire proceedings of the symposium organized by one of us H S on November 11 to 15 1991 at Hakone Japan under the title of Mechanism of Myofilament Sliding in Muscle Contraction Among various kinds of energy transduction mechanisms in biological systems the mechanism of muscle contraction has been studied most intensively and extensively over many years Since the monumental discovery by the two Huxleys and coworkers that muscle contraction results from relative sliding between the thick and thin myofilaments attention of muscle investigators has been focused on the question what makes the filaments slide past one another In response to the above question A F Huxley and Simmons put forward a contraction model in 1971 in which globular heads of myosin cross bridges extending from the thick filament first attach to actin on the thin filament and then change their angle of attachment to actin power stroke leading to force generation or myofilament sliding until they detach from the thin filament The rocking cross bridge contraction model seemed to be entirely consistent with the kinetic scheme of actomyosin ATPase published by Lymn and Taylor at the same time thus giving a strong impression to the people concerned that the muscle contraction mechanism would soon be sorted out In his review lecture in 1974 however A F *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

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 **Mechanism of Myofilament Sliding in Muscle Contraction** H. Sugi, 1993 Proceedings of the symposium on title held at Hakone Japan in November 1991 In between the introductory lecture on muscle contraction and the summary and conclusion both by A F Huxley are primary sections devoted to the structural basis of myofilament sliding regulatory mechanisms of contra **Muscle Contraction and Cell Motility** Haruo Sugi, 2016-11-03 This book provides a comprehensive overview of the current progress in muscle contraction and cell motility research It discusses structural mechanical and biochemical characteristics of skeletal cardiac and smooth muscles and cell motility The experimental objects of the studies described in this volume extend from humans to molecules A distinct feature of this volume is that in some chapters evidence against the textbook view is presented showing how well established dogma can be denied by an unexpected discovery This book is as interesting as it is informative for general readers and young scientists alike and it is sure to inspire both to challenge the enticing mysteries that still remain in this exciting research field *Mechanisms of Work Production and Work Absorption in Muscle* Haruo Sugi, Gerald H. Pollack, 2012-12-06 In contrast to common practice we have always tried to include as many discussions held at the meeting in our proceedings as possible so as to enable readers to properly evaluate each paper presented as well as to learn of future prospects in this field of research Although the policy of including discussions occasions a long publication delay we believe that it is worth repeating in our future publication as we have met a number of young investigators fascinated by the discussions in our proceedings In the concluding remarks in this volume Dr Hugh E Huxley a principal architect of the sliding filament mechanism of muscle contraction states that the molecular mechanism of myofilament sliding remains mysterious to all of us We hope that this volume will stimulate muscle investigators to design and perform novel experiments to clarify the mysteries in muscle contraction Haruo Sugi and Gerald H Pollack excerpted from the Preface **Molecular and Cellular Aspects of Muscle Contraction** Haruo Sugi, 2012-12-06 This volume presents the proceedings of a muscle symposium which was supported by the grant from the Fujihara Foundation of Science to be held as the Fourth Fujihara Seminar on October 28 November 1 2002 at Hakone Japan The Fujihara Seminar covers all fields of natural science while only one proposal is granted every year It is therefore a great honor for me to be able to organize this meeting Before this symposium I have organized muscle

symposia five times and published the proceedings Cross bridge Mechanism in Muscle Contraction University of Tokyo Press 1978 Contractile Mechanisms in Muscle plenum 1984 Molecular Mechanisms of Muscle Contraction plenum 1988 Mechanism of Myofibril Sliding in Muscle contraction plenum 1993 Mechanisms of Work Production and Work Absorption in Muscle plenum 1998 As with these proceedings this volume contains records of discussions made not only after each presentation but also during the periods of General Discussion in order that general readers may properly evaluate each presentation and the up to date situation of this research field It was my great pleasure to have Dr Hugh Huxley a principal discoverer of the sliding filament mechanism in muscle contraction in this meeting On my request Dr Huxley kindly gave a special lecture on his monumental discovery of myofibril lattice structure by X ray diffraction of living skeletal muscle I hope general readers to learn how a breakthrough in a specific research field can be achieved **Myosins** James

Sellers,1999-05-13 Myosins are a diverse superfamily of molecular motor proteins which share the ability to reversibly bind actin and hydrolyse MgATP They are capable of either translocating actin filaments or translocating vesicles or other cargo on fixed actin filaments There are currently 15 distinct classes in the myosins superfamily based on sequence homology Myosin II and myosin I proteins are familiar and well studied while Classes III XV are less well characterized All myosins examined to date are multimeric and appear to possess at least three functional domains a head neck and tail Myosins second edition explores the structure and functional properties of myosins their regulation and mutational analysis It has been thoroughly updated since the first edition was published in 1995 including sections on the three additional classes defined by new sequences information provided by the crystal structure of seven new Dictyostelium motor domains and data from new techniques such as molecular imaging and tagging proteins with GFP 20 The three human diseases that are now known to be linked to mutations in different myosin heavy or light chains are also covered including more than 50 mutations associated with hypertrophic cardiomyopathy Human Physiology and Control Mechanisms Mr. Rohit

Manglik,2024-05-17 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Analysis and Assessment of Cardiovascular Function Gary M. Drzewiecki,John K-J. Li,2012-12-06 The objective of this book is to provide the researcher and clinician with the recent developments in the analysis and assessment of cardiovascular function The chapters are organized into sections that correspond with the various anatomical levels of the cardiovascular system To a large extent recent focus on the cardiovascular system function has been directed at the molecular level to the near exclusion of the tissue and organ function While this may be useful in developing new therapeutic drugs it does not aid the cardiologist or surgeon who routinely deal with patient symptoms This book integrates the micro level and organ level function so that new information may be assimilated into the cardiovascular system as a whole Within

each section the chapters have been arranged to progress from recent theoretical developments to experimental research and finally to clinical applications This approach facilitates the timely transfer of information from basic research to the clinic The strength of the analytical approach will be evident to the reader The theoretical analysis offers guidance to experimental design and in some cases offers solutions where measurements are as yet unattainable In moving from newly attained knowledge to clinical practice this book emphasizes the noninvasive method in the future as technological advances occur Such methods are desirable and the trend towards early preventive diagnosis is sought What follows are highlights of new developments covered in each section of the book Human Physiology Volume - 1 Mr. Rohit Manglik,2024-07-24

This volume introduces fundamental physiological processes including cellular function neurophysiology and muscular systems using clear explanations and diagrams Motility Assays for Motor Proteins ,1993-11-17 Motility Assays for Motor Proteins Reflexive Polymers and Hydrogels Nobuhiko Yui,Randall J. Mersanyi,Kinam Park,2004-03-17 Despite their capacity to carry out functions that previously were unobtainable smart polymers and hydrogels tend to have painfully slow response times On the other hand biological systems go through phase changes at an extremely fast rate Reflexive Polymers and Hydrogels examines the natural systems that respond almost instantaneously to environmental stimuli and thus gives the reader an understanding of the mechanisms that govern these responses The book includes chapters on approaches and procedures for designing a synthetic flash system based on naturally occurring systems It also deals with some of the promising potential applications of flash systems in industry **Proteins** Mr. Rohit Manglik,2024-06-24 Studies protein structure function and interactions focusing on their roles in cellular processes enzyme activity and disease mechanisms

Physiology of Domestic Animals Oystein V. Sjaastad,Olav Sand,Knut Hove,2010 This textbook is primarily targeted towards students of veterinary animal and agricultural sciences but it is also well suited for university courses in general and mammalian physiology The textbook emphasizes functional aspects of physiology The book contains color illustrations short clarifying statements placed in the margin questions and clinical examples **Mechanobiology** Boris Martinac,Charles D. Cox,Kate Poole,Sara Baratchi,Daryan Kempe,2024-03-06 The 4th International Symposium on Mechanobiology ISMB organized by the Australian Society for Mechanobiology AuSMB took place at the Sydney Nanoscience Hub at the University of Sydney Australia from the 6th to the 9th of November 2022 This conference started in 2011 with the founding of the Society in Shanghai China and has occurred every three years also visiting Okayama 2014 and more recently Singapore 2017 This is the first time this conference was held in Australia The primary purpose of the 4th International Symposium on Mechanobiology ISMB was to act as a forum for dissemination of cutting edge research and innovation in the field of mechanobiology It brought together 200 delegates from both the Australian and International communities students scientists clinicians engineers and stakeholders from academia industry and other organisations working in the broader field of mechanobiology to discuss new and exciting advances in the field This collection reflects the diverse and multidisciplinary

nature of mechanobiology research spanning length scales and organ systems Chapter 4 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com

Rapid Review Physiology E-Book
Thomas A. Brown, 2016-10-25 Get the most from your study time and experience a realistic USMLE simulation with Rapid Review Physiology 2nd Edition by Dr Thomas A Brown This new reference in the highly rated Rapid Review Series is formatted as a bulleted outline with clinical images tables and figures that make it easy to review all the physiology information you need to know for the USMLE And with Student Consult online access you can become familiar with the look and feel of the actual exam by taking a timed or a practice online test that includes 350 USMLE style questions Review the most current information with completely updated chapters images and questions Profit from the guidance of series editor Dr Edward Goljan a well known author of medical review books who reviewed and edited every question Take a timed or a practice test online with more than 350 USMLE style questions and full rationales for why every possible answer is right or wrong Access all the information you need to know quickly and easily with a user friendly two color outline format that includes High Yield Margin Notes Study and take notes more easily with the new larger page size This edition thoroughly updated including student and resident reviewer feedback to ensure relevancy and focus Practice with a new testing platform on the USMLE Consult testing engine that gives you a realistic review experience and fully prepares you for the exam

Essential Physiology for Dental Students Kamran Ali, Elizabeth Prabhakar, 2019-02-04 Essential Physiology for Dental Students offers comprehensive information on human physiology tailored to the needs of students of dentistry This new addition to the Dentistry Essentials series helps students gain a deeper understanding of how physiological concepts apply to clinical dental practice Each chapter outlines an organ system in sufficient detail whilst emphasizing its relevance to clinical dentistry Written in a student friendly style it contextualizes how normal and altered physiology affects dental care and highlights the implications of dental interventions on the body's functioning Essential Physiology for Dental Students provides readers with complete coverage of cell physiology nerve and muscle physiology the cardiovascular system the respiratory system the gastro intestinal system the renal system haematology endocrinology including the regulation of blood glucose and blood calcium and the central nervous system Covers each system in detail while emphasizing the relevance to dental students Presented using a reader friendly layout with illustrations and clinical photographs throughout Features interactive MCQs and EMQs and downloadable images on a companion website Essential Physiology for Dental Students is an excellent resource for undergraduate dentistry students dental hygiene and therapy students and dental nursing students It also greatly benefits newly qualified dentists preparing for postgraduate examinations such as MFDS LDS ORE and also the US National Boards

Biomechanics Manuel Doblare, Jose Merodio, 2015-12-30 Biomechanics is a component of Encyclopedia of Physical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The enormous progress in the field of health

sciences that has been achieved in the 19th and 20th centuries would have not been possible without the enabling interaction and support of sophisticated technologies that progressively gave rise to a new interdisciplinary field named alternatively as bioengineering or biomedical engineering. Although both terms are synonymous the latter is less general since it limits the field of application to medicine and clinical practice while the former covers semantically the whole field of interaction between life sciences and engineering thus including also applications in biology, biochemistry or the many omics. We use in this book the second with more general meaning recalling the very important relation between fundamental science and engineering. And this also recognizes the tremendous economic and social impacts of direct application of engineering in medicine that maintains the health industry as one with the fastest growth in the world economy. Biomechanics in particular aims to explain and predict the mechanics of the different components of living beings from molecules to organisms as well as to design manufacture and use of any artificial device that interacts with the mechanics of living beings. It helps therefore to understand how living systems move to characterize the interaction between forces and deformation along all spatial scales to analyze the interaction between structural behavior and microstructure with the very important particularity of dealing with adaptive systems able to adapt their internal structure size and geometry to the particular mechanical environment in which they develop their activity to understand and predict alterations in the mechanical function due to injuries, diseases or pathologies and finally to propose methods of artificial intervention for functional diagnosis or recovery. Biomechanics is today a very highly interdisciplinary subject that attracts the attention of engineers, mathematicians, physicists, chemists, material specialists, biologists, medical doctors etc. They work in many different topics from a purely scientific objective to industrial applications and with an increasing arsenal of sophisticated modeling and experimental tools but always with the final objectives of better understanding the fundamentals of life and improve the quality of life of human beings. One purpose in this volume has been to present an overview of some of these many possible subjects in a self contained way for a general audience. This volume is aimed at the following major target audiences: University and College Students, Educators, Professional Practitioners and Research Personnel.

Current Basic and Pathological Approaches to the Function of Muscle Cells and Tissues Haruo Sugi, 2012-07-18. This volume contains 17 short review articles classified into 3 parts. Part I consists of 7 articles dealing with basic aspects of contractile mechanism in skeletal and smooth muscle cells and also function of melanocytes having many properties common to those of smooth muscles. Part II and Part III contain articles dealing with pathological aspects of cardiac and smooth muscle cell functions and dealing with factors influencing structure and function of cardiac and smooth muscle cells and tissues. The Editor believes that these articles are stimulating and informative for readers interested in basic pathological and clinical aspects of muscle cells and tissues.

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