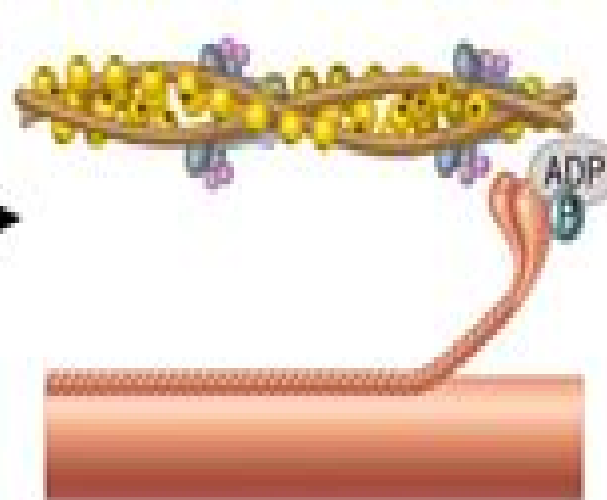
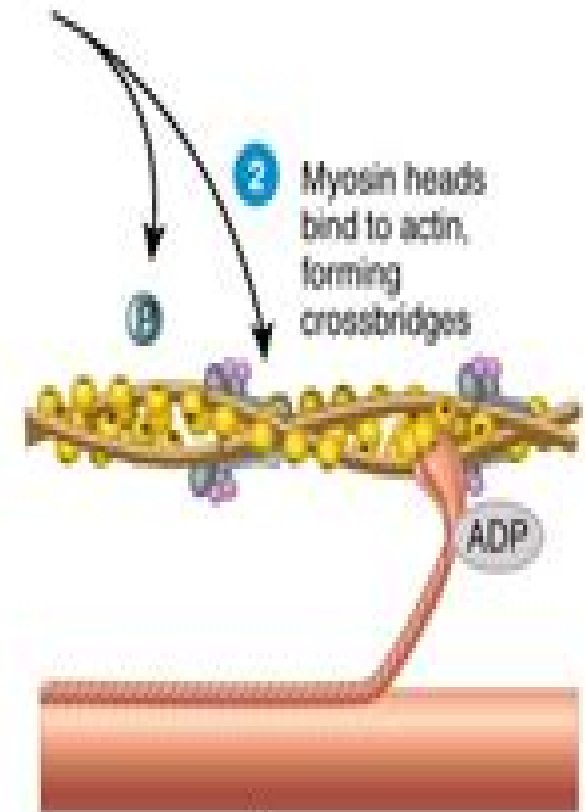


1 Myosin heads split ATP and become reoriented and energized



2 Myosin heads bind to actin, forming crossbridges

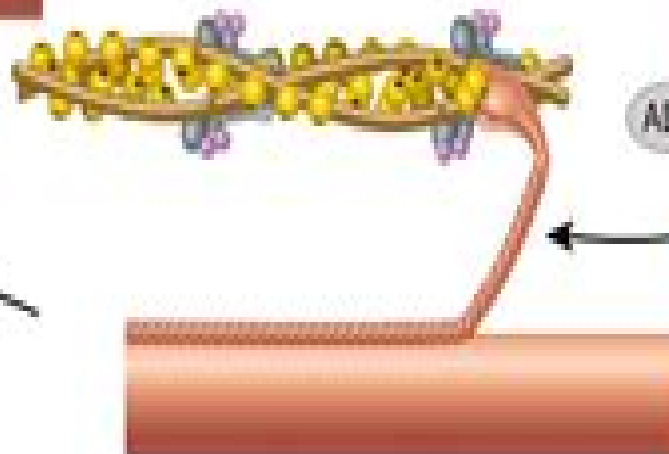


Contraction cycle continues if ATP is available and Ca^{2+} level in the sarcoplasm is high

4 As myosin heads bind ATP, the crossbridges detach from actin



3 Myosin heads rotate toward center of the sarcomere (power stroke)



Mechanism Of Myofilament Sliding In Muscle Contraction

Haruo Sugi, Gerald H. Pollack



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

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

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

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 Myofilament 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 myofilament 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 Dicytostelium 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 *Chapterwise Instant Notes Class 11 Biology Book* MTG Learning Media, MTG presents a new resource to help CBSE board students with this masterpiece Chapterwise Instant Notes This book is the best revision resource for CBSE students as it has instant chapter wise notes for completing the latest CBSE syllabus The book comprises chapter wise quick recap notes and then a lot of subjective questions which covers the whole chapter in the form of these questions Current Methods in Muscle Physiology Sugi Haruo, Haruo Sugi, 1998 Despite extensive physiological biochemical and structural studies the mechanisms of muscle contraction operating in living muscle fibres are still not clearly understood This book aims to describe and assess various experimental methods currently used in the field of muscle research For each method discussed there is a comprehensive description of its advantages problems and limitations Each chapter also contains a summary of the central results to have been obtained using each method Comprehensively written by experts in their respective fields this book will be of interest to all investigators in muscle physiology 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 *Mechanism of Myofilament Sliding in Muscle Contraction* Haruo Sugi, Gerald H. Pollack, 1993 *Pediatric Neurology* Kenneth F. Swaiman, Stephen Ashwal, Donna M. Ferriero, 2006-01-01 This Gold Standard in clinical child neurology presents the entire specialty in the most comprehensive authoritative and clearly written fashion Its clinical focus along with relevant science throughout is directed at both the experienced clinician and the physician in training New editor Dr Ferriero brings expertise in neonatal neurology to the Fourth Edition New chapters Pathophysiology of Hypoxic Ischemic Encephalopathy Congenital Disorders of Glycosylation Pediatric Neurotransmitter Diseases Neurophysiology of Epilepsy Genetics of Epilepsy Pediatric Neurorehabilitation Medicine Neuropsychopharmacology Pain and Palliative Care Management Ethical Issues in Child Neurology *The Big Book of Biology For NEET Volume 1* Janardhanan.T, Sanjay

Sharma,2021-07-26 The Big Book of Biology Volume 1 New Self Study Guide 2 The book is designed on Chapterwise Premises 3 Entire syllabus is divided into 22 Chapters 4 7000 Topically divided objective questions along with detailed explanations 5 more than 13000 MCQs given from all possible typologies There was never a better time to emphasize the Fact that How important doctors are Its probably the most fulfilling and dream career opportunity for any aspirants NEET is the gateway to millions of dreamers to open the door for admission in top MBBS Colleges in India and Biology plays half the role Looking at the need of the hour and based on Changing and Latest Pattern of examination Arihant brings you the The Big Book of Biology The New Self Study Guide has been designed on Chapterwise Premises The all new series of Big Book of Biology for NEET Volume 1 has been designed to fulfil the important needs of all NEET aspirants The syllabus in this volume has been divided into 22 chapters as per latest pattern serving as an in depth question bank of Biology subject This book has 7000 Topically divided objective questions are given for along with the Detailed explanations collection of more than 13000 MCQs given from all possible typologies arranged in Chapterwise and Topicwise as per NEET 2020 Syllabus for practice to the point amicable explanations in each chapter vast coverage given to objection questions asked in various Medical Entrances from 2000 till date 2 The book is designed on Chapterwise Premises 3 Entire syllabus is divided into 22 Chapters 4 7000 Topically divided objective questions along with detailed explanations 5 more than 13000 MCQs given from all possible typologies There was never a better time to emphasize the Fact that How important doctors are Its probably the most fulfilling and dream career opportunity for any aspirants NEET is the gateway to millions of dreamers to open the door for admission in top MBBS Colleges in India and Biology plays half the role Looking at the need of the hour and based on Changing and Latest Pattern of examination Arihant brings you the The Big Book of Biology The New Self Study Guide has been designed on Chapterwise Premises The all new series of Big Book of Biology for NEET Volume 1 has been designed to fulfil the important needs of all NEET aspirants The syllabus in this volume has been divided into 22 chapters as per latest pattern serving as an in depth question bank of Biology subject This book has 7000 Topically divided objective questions are given for along with the Detailed explanations collection of more than 13000 MCQs given from all possible typologies arranged in Chapterwise and Topicwise as per NEET 2020 Syllabus for practice to the point amicable explanations in each chapter vast coverage given to objection questions asked in various Medical Entrances from 2000 till date TOC The Living world Biological Classification Plant Kingdom Animal Kingdom Morphology of Flowering Plants Anatomy of Flowering Plants Structural Organisation in Animals Cell The Unit of Life Biomolecules Cell Cycle and Cell Division Transports in Plants Mineral Nutrition Photosynthesis in Higher Plants Respiration in Plants Plant Growth and Development Digestion and Absorption Breathing and Exchanging of Gases Body Fluids and Circulation Excretory Products and Their Elimination Locomotion and Movement Neural Control and Coordination Chemical Coordination and Integration Synchrotron Radiation in the Biosciences Britton Chance,1994 This book represents the edited proceedings of the 4th International

Conference on Biophysics and Synchrotron Radiation held in Tsukuba Japan in 1992 It discusses advances in the application of synchrotron radiation to biophysics and medicine The papers have been selected by a distinguished international board after refereeing and edited for publication It discusses advances in the application of synchrotron radiation to biophysics and medicine of interest to researchers from many diverse fields Just a few of the topics covered are filamentous viruses angiography and solution X ray scattering

Competition Science Vision, 2000-12 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue

Muscle 2-Volume Set Joseph Hill, Eric Olson, 2012-08 Muscle Fundamental Biology and Mechanisms of Disease will be the first reference covering cardiac skeletal and smooth muscle in fundamental basic science translational biology disease mechanism and therapeutics Currently there are no publications covering the science behind the medicine as the majority of books are 90% clinical and 10% science Muscle Fundamental Biology and Mechanisms of Disease will discuss myocyte biology also known as muscle cell biology providing information about the science behind clinical work and therapeutics with a 90% science and 10% clinical focus A needed resource for researchers clinical professionals postdocs and graduate students this publication will further discuss basic biology development and physiology how processes go awry in disease states and how the defective pathways are targeted for therapy This book will assist both the new and experienced clinician s and researcher s need for science translation of background research into clinical applications bridging the gap between research and clinical knowledge

Ross and Wilson Applied Anatomy and Applied Physiology in Health and Illness_1SAE - E-Book W.M.S. Johnson, Priscilla Johnson, S.J. Nalini, 2022-11-01 Ross and Wilson Applied Anatomy and Applied Physiology in Health and Illness_1SAE E Book

Human Physiology and Mechanisms of Disease Arthur C. Guyton, 1992 Intended for health science students and undergraduates this book covers the basic physiology of common human disorders Topics discussed include motor control of the body the parathyroid hormone calcium and phosphate metabolism and electrocardiographs in the diagnosis of heart abnormalities

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 **Mechanisms of myofilament sliding in muscle contraction** Haruo Sugi, Gerald H. Pollack, 1993 **Principles of Human Anatomy** Gerard J. Tortora, 1995 Designed for introductory courses in human anatomy this text assumes no previous study of the human body Instead this book helps to facilitate a basic understanding of this broad discipline by presenting data unified concepts and vocabulary in a manner that is easy for students to understand Although the focus is on anatomy links are made between structures and functions to help students understand anatomical concepts The understanding of structure and function is further enhanced by considering defects and disorders in clinical settings Organized by systems rather than regions each chapter of this seventh edition has been revised This text s coverage of the human anatomy is now complemented by new features including questions with figures colour anatomy photographs improved readability phonetic pronunciations and more exhibits

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