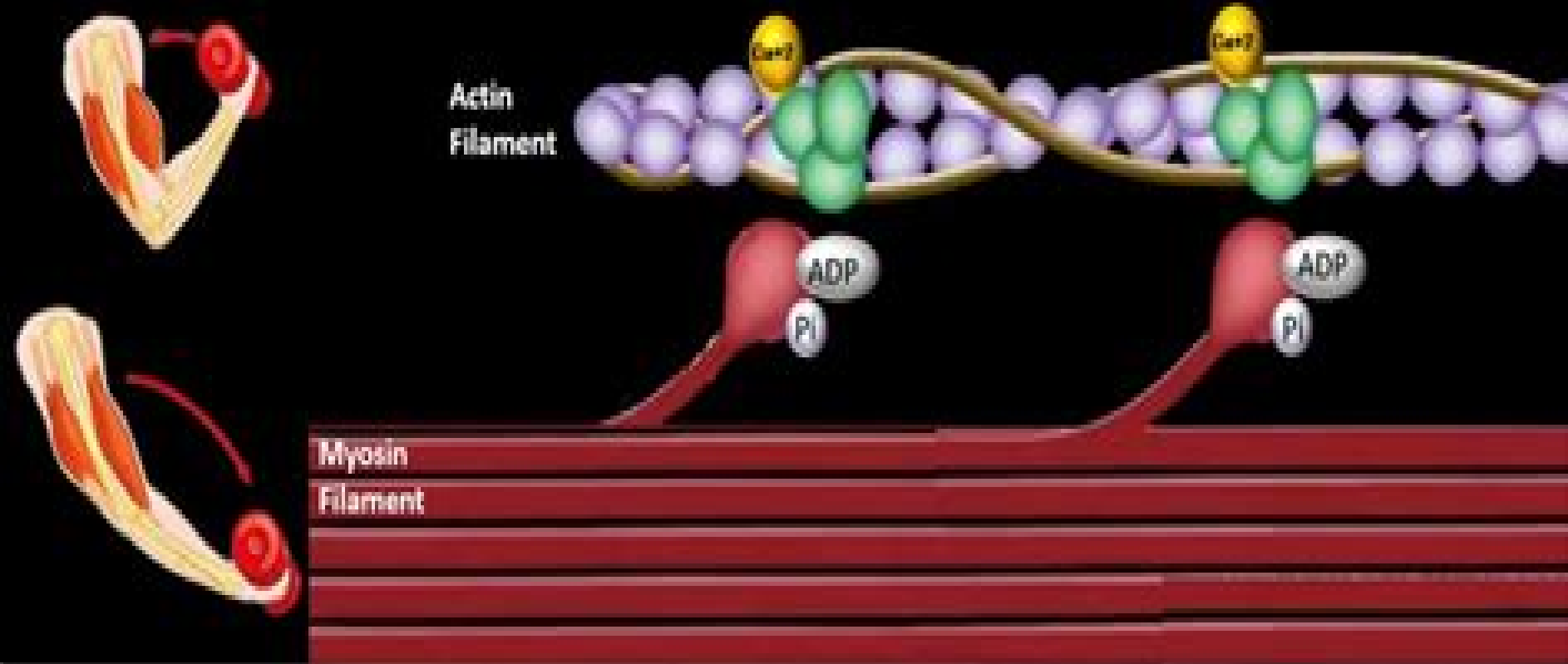


Muscle Contraction

At Molecular level....Animated



The Mechanism Of Muscle Contraction Cold Spring Harbor Symposia On Quantitative

David Aitchison Smith



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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

THE MECHANISM OF MUSCLE CONTRACTION- PROCEEDINGS- 37TH COLD SPRING HARBOR SYMPOSIUM ON QUANTITATIVE BIOLOGY. ,

Clocks and Rhythms Bruce Stillman, David Johnston Stewart, Terri Grodzicker, 2007 Proceedings of a symposium which included sessions and poster sessions covering molecular strategies aimed at understanding the structure and function of biological clocks and rhythms

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 Cognition Cornelia I. Bargmann, Daphne Bavelier, David Stewart, Terrence Joseph Sejnowski, Bruce Stillman, 2014 The Proceedings of the 79th Symposium capture many of the tremendous discoveries currently being made by neuroscientists and psychologists working on cognitive processes at scales varying from the molecular to circuit to whole brain and theoretical studies Major advances in understanding cognitive function including learning memory language and decision making are being made through the application of powerful new techniques and approaches The scientific results discussed in this volume shed light on many areas of normal brain function but also offer novel insights into the treatment of psychiatric neurological and neurodegenerative diseases This volume includes state of the art neurobiological research at genetic molecular cellular circuit and whole brain resolution Additional chapters address computational neuroscience behavioral and psychophysical studies and evolutionary comparative neuroscience The Conversations included in this volume are based on interviews conducted during the Symposium and offer a broader anecdotal perspective on this fascinating subject by many of the world's leading cognitive neuroscientists The Symposium Proceedings provides an integrative overview of the current state of the field as well as a glimpse into the emerging connections between molecular cellular circuit mechanisms and higher brain function by leading authorities in the field

Cardiovascular System Dynamics T. Kenner, 2013-11-09 *Cold Spring Harbor Symposia on Quantitative Biology*, 1933

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

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 Myofibril 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 myofibril 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 Metabolic Compartmentation and Neurotransmission Soll Berl, 2013-03-07 The first symposium on metabolic compartmentation in brain was held at the Rockefeller Foundation Bellagio Italy July 11 16 1971 the proceedings CR Balazs and J E Cremer editors MacMillan appeared in 1973 At the conclusion of the first symposium it was decided to assess in 2 3 years the progress in this rapidly developing area This volume represents the proceedings of an Advanced Study Institute made possible by a grant from the North Atlantic Treaty Organization Scientific Affairs Division Additional generous support by the Wellcome Trust allowed attendance by participants from non NATO countries S Ber D D Clarke D Schneider xi Introduction The term metabolic compartmentation as related to the chemistry of the brain appeared in print for the first time about 15 years ago The concept was developed in the laboratory of Dr Heinrich Waelsch as a result of studies related to the metabolism of glutamic acid and glutamine It was welcomed by a number of neurochemists who felt that the concept had validity and would help explain metabolic phenomena that were otherwise quite puzzling The concept gradually achieved general acceptance and by 1971 the amount of information that could profit by being examined from the point of view of metabolic compartmentation had increased sufficiently to warrant a symposium on the subject Metabolic Compartmentation in the Brain Balazs and Cremer eds MacMillan 1973 Almost all the participants at that initial symposium were present at the second on which this volume is based

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