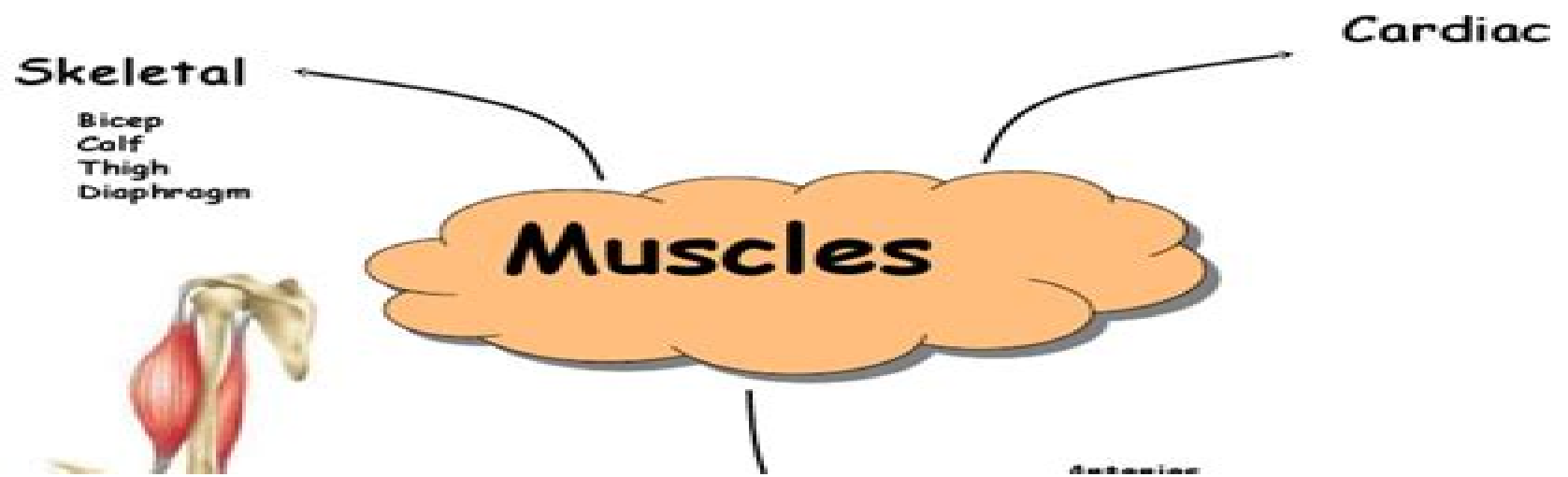


# Contractile mechanisms

Prof Iain Greenwood Rm 2.62 ext 2857



# Contractile Mechanisms In Muscle

**Zhe Xu**

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located on the right side of the slide.

## **Contractile Mechanisms In Muscle:**

**Contractile Mechanisms in Muscle** Gerald Pollack, 2013-03-13 Prior to the emergence of the sliding filament model contraction theories had been in abundance In the absence of the kinds of structural and biochemical information available today it has been a simple matter to speculate about the possible ways in which tension generation and shortening might occur The advent of the sliding filament model had an immediate impact on these theories within several years they fell by the wayside and attention was redirected towards mechanisms by which the filaments might be driven to slide by one another In terms of identifying the driving mechanism the pivotal observation was the electron micrographic identification of cross bridges extending from the thick filaments It was quite naturally assumed that such bridges which had the ability to split ATP were the molecular motors i e that they were the sites of mechanochemical transduction Out of this presumption grew the cross bridge model in which filament sliding is presumed to be driven by the cyclic interaction of cross bridges with complementary actin sites located along the thin filaments

**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

**Mechanisms of Vasodilatation** P. M. Vanhoutte, I. Leusen, 1978-07-10 **Contractile Mechanisms in Muscle** Gerald H. Pollack, Haruo Sugi, 1984

**Research Awards Index**, 1989 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1973 **The Haemodynamic Effects Of Nitric Oxide** Tudor M Griffith, Robert T Mathie, 1999-08-30 Since the discovery of nitric oxide as an endothelium derived relaxing factor in 1987 investigations on its precise modes of action have been carried out at an extraordinary rate Nitric oxide is now implicated in many physiological and pathological processes not just in the control of vascular resistance but in nerve transmission cell proliferation inflammatory responses and so on Despite such rapid progress no attempt has been made to combine the current knowledge of this subject matter in a single textbook This volume has been written with the above in mind and presents a topical comprehensive overview of the biochemistry and the physiological and pathophysiological effects of nitric oxide as they relate to the cardiovascular system The therapeutic implications of nitric oxide are also considered The text comprises contributions from many of the leading international authorities on the topic including Professor L J Ignarro winner of the 1998 Nobel Prize in Physiology or Medicine

**Biomechanics and Neural Control of Posture and Movement** Jack M. Winters, Patrick E. Crago, 2012-12-06 Most routine motor tasks are complex involving load transmission through out the body intricate balance and eye head shoulder hand torso leg coordination The quest toward understanding how we perform such tasks with skill and grace often in the presence of unpredictable perturbations has a long history This book arose from the Ninth Engineering Foundation Con

ference on Biomechanics and Neural Control of Movement held in Deer Creek Ohio in June 1996 This unique conference which has met every 2 to 4 years since the late 1960s is well known for its informal format that promotes high level up to date discussions on the key issues in the field The intent is to capture the high quality of the knowledge and discourse that is an integral part of this conference series The book is organized into ten sections Section I provides a brief introduction to the terminology and conceptual foundations of the field of movement science it is intended primarily for students All but two of the remaining nine sections share a common format 1 a designated section editor 2 an introductory didactic chapter solicited from recognized leaders and 3 three to six state of the art perspective chapters Some perspective chapters are followed by commentaries by selected experts that provide balance and insight Section VI is the largest section and it consists of nine perspective chapters without commentaries

**Molecular Mechanism of Muscle Contraction** Haruo Sugi, Gerald H. Pollack, 1988 It is now widely recognized that fundamental progress in science is made not in a continuous manner but in a stepwise manner In the field of the molecular mechanism of contraction in striated muscle the stepwise progress was achieved by three great investigators in the 1940s and 1950s In the early 1940s Albert Szent-Gyorgyi and his associates showed biochemically that muscle contraction is essentially an interaction between actin and myosin coupled with ATP hydrolysis Then in the 1950s Hugh E Huxley together with Jean Hanson demonstrated that striated muscle is composed of a hexagonal lattice of two kinds of interdigitating myofilaments consisting of actin and myosin respectively and made a monumental discovery that muscle contraction results from the relative sliding between the actin and myosin filaments Andrew F Huxley who also participated in the discovery of the sliding filament mechanism of muscle contraction was attributed to the attachment-detachment cycle between the cross bridges extending from the myosin filament and the complementary sites on the actin filament After the above stepwise progress however muscle research appears to have entered into a period of so-called normal science where detailed knowledge has been accumulating around the well established central dogmas but without fundamental progress More specifically most experiments on muscle contraction mechanisms have been designed, carried out and interpreted on the basis of the Huxley's 1957 and the Huxley-Simmons 1971 contraction models as well as the kinetic scheme of actomyosin ATPase but the molecular mechanism of contraction still remains to be a matter for debate and speculation For further fundamental progress in this field of research we feel it necessary to reconsider the validity of these dogmas and to interpret the results more freely In 1978 one of us H S organized a symposium in Tokyo based on the above idea and we published the proceedings under the title of Cross-bridge Mechanism in Muscle Contraction ed H Sugi and G H Pollack University of Tokyo Press University Park Press 1979 The unusual interest of muscle physiologists in this symposium encouraged us to organize a second symposium on muscle contraction in Seattle in 1982 and proceedings were again published under the title of Contractile Mechanisms in Muscle ed G H Pollack and H Sugi Plenum Publishing Corporation 1984 We were again very much encouraged by the intense interest of the people at the

symposium as well as by readers of the proceedings and became convinced that the symposia of this kind would greatly accelerate the progress in this field The present symposium was organized by one of us H S as the third Cross bridge symposium Though most papers are concerned as in the previous two symposia with experiments on intact and demembrated muscle fibers and isolated myofibrils where the three Dimensional myofilament lattice structures have been preserved the results are frequently discussed in connection with the kinetics of actomyosin ATPase reflecting the recent development of experimental methods connecting physiology and biochemistry It has also become possible to obtain direct information about the orientation and configuration of the cross bridges at various stages during muscle contraction

**Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute** National Heart, Lung, and Blood Institute, 1979 **Muscle, Matrix, and Bladder Function** Stephen A.

Zderic, 2013-11-21 This conference and monograph were the result of many collective efforts The whole concept was formulated one early Wednesday morning at our weekly research meeting at Children's Hospital in our division of urology We have been most fortunate to have a close collaboration with Bob Levin Ed Macarak and Pam Howard who have helped steer the course of our division's growing interest in basic science At our weekly meetings our laboratory fellow will summarize their current work Other ongoing areas of investigation in our labs and elsewhere are discussed We have always made an effort to try and understand what other groups are doing who are working in the area of bladder smooth muscle research It occurred to us that the best way to really know what everyone working in this field was doing would be to sponsor a 2 day meeting where we could all gather to discuss our ongoing work A major limitation of the annual meeting of the American Urologic Association or the urology section of the American Academy of Pediatrics is that the scientific sessions are limited as these are meant to be primarily clinical meetings as they should be For this reason the idea of a meeting devoted solely to research about the urinary bladder had great appeal In addition to allowing for longer presentations than the standard 5 to 7 minutes every effort would be made to encourage a dialogue amongst the presenters and the audience

*Vascular Neuroeffector Mechanisms* J. A. Bevan, G. Burnstock, B. Johansson, R. A. Maxwell, O. A. Nedergaard, 1976-08-30

*Biomedical Index to PHS-supported Research*, 1995 *Biochemistry of Smooth Muscle Contraction* Michael

Barany, 1996-01-04 This valuable resource provides a systematic account of the biochemistry of smooth muscle contraction As a comprehensive guide to this rapidly growing area of research it covers the structure and characteristic properties of contractile and regulatory proteins with special emphasis on their predicted function in the live muscle Also included in this book are intermediate filament proteins and desmin and vimentin whose function in smooth muscle is unknown and several enzymes involved in the phosphorylation dephosphorylation of contractile and other proteins Strength and Conditioning for Endurance Running Richard Blagrove, 2015-07-31 Endurance runners and coaches have tended to neglect weight training and conditioning techniques often in the belief that they don't benefit performance add unwanted muscle bulk or cause

excessive soreness But as standards at elite level have improved so coaches and runners have become increasingly keen on learning about the latest new training techniques or ways to stay injury free No longer does the running community view strength and conditioning with scepticism or as something that can only benefit elite runners In *Strength and Conditioning for Endurance Running* author Richard Blagrove shows how a strength and conditioning programme can directly improve running performance and reduce the risk of injury as well as allowing an athlete to tolerate high volumes of running in the future Fully illustrated with 312 colour images and diagrams      *Deployable Structures* S. Pellegrino, 2014-05-04 Deployable structures can vary their shape automatically from a compact packaged configuration to an expanded operational configuration The first properly engineered deployable structures were used as stabilization booms on early spacecraft Later on more complex structures were devised for solar arrays communication reflectors and telescopes In other fields there have been a variety of developments including retractable roofs for stadia foldable components for cars portable structures for temporary shelters and exhibition displays Three main themes are discussed in this book concepts working principles and mechanics of deployable structures both in engineering and biology in addition theory of foldable bar structures and application to deployable tensegrities formulation of large rotation analysis of deployable structures and finite element simulation methods      **Cross-bridge Mechanism in Muscle Contraction** Haruo Sugi, Gerald H. Pollack, 1979

Biomedical Index to PHS-supported Research: pt. A. Subject access A-H, 1992      **A.M.A. Archives of Neurology and Psychiatry**, 1920      **Archives of Neurology and Psychiatry**, 1922

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