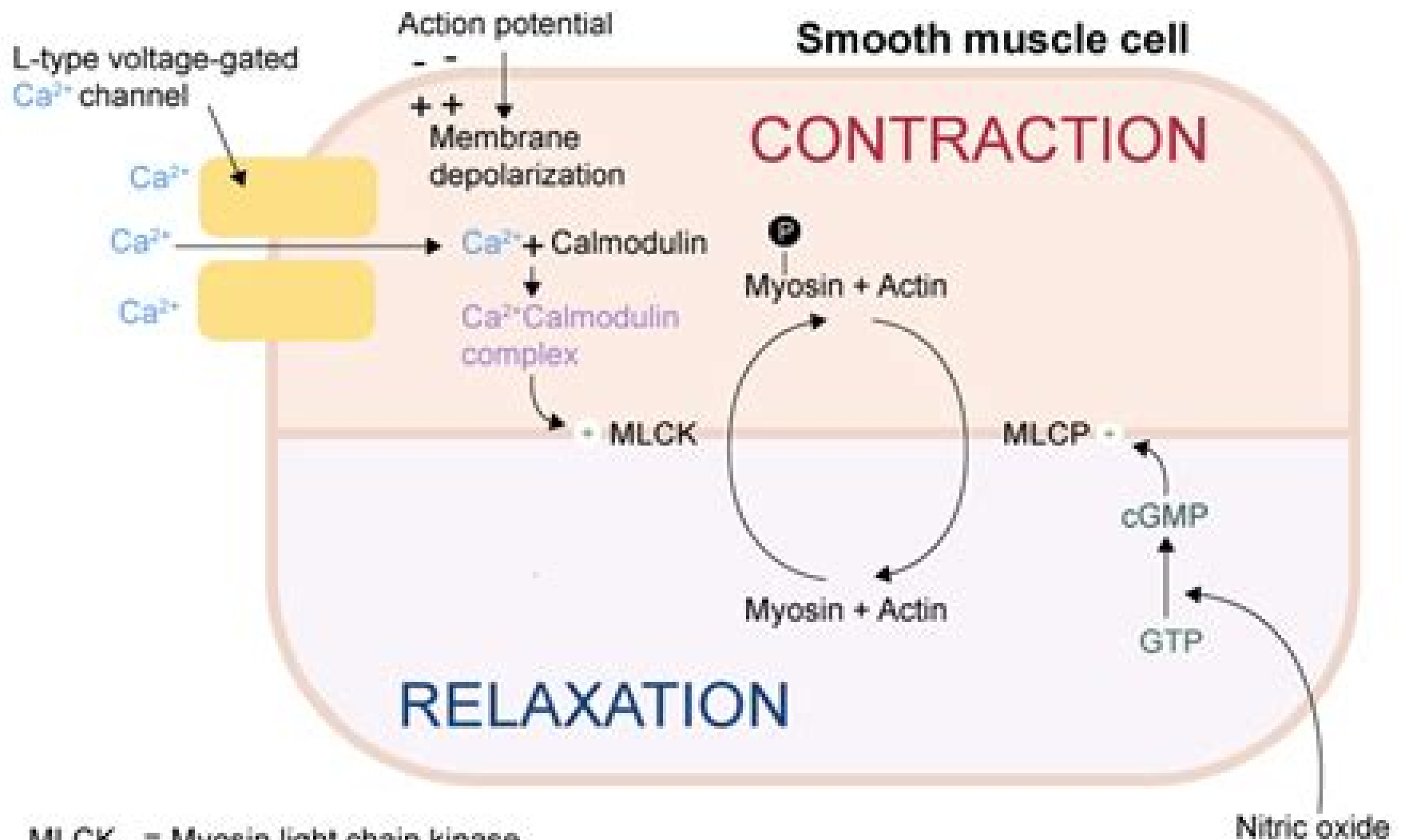


Smooth Muscle Contraction



MLCK = Myosin light chain kinase
MLCP = Myosin light chain phosphatase
GTP = Guanosine triphosphate
cGMP = Cyclic guanosine monophosphate

Regulation Of The Contractile Cycle In Smooth Muscle

Takeshi Nakano, David J. Hartshorne



Regulation Of The Contractile Cycle In Smooth Muscle:

Regulation of the Contractile Cycle in Smooth Muscle Takeshi Nakano, David J. Hartshorne, 2012-12-06 At the Mie International Symposium held in Japan in April 1994 leading scientists reviewed recent advances in the understanding of the contractile mechanism in smooth muscle The present volume collects the papers presented at the symposium summarizing the latest advances in smooth muscle function and emphasizing important components of the contraction relaxation cycle Topics include a discussion of the smooth muscle cell membrane with emphasis on its ion channels the regulation of cytosolic Ca^{2+} levels and the relationship to force in smooth muscle aspects of the two key regulatory enzymes involved with myosin phosphorylation dephosphorylation the molecular basis for pharmacomechanical coupling in smooth muscle developments in the basic contractile mechanisms involving the crossbridge cycle of tonic and phasic muscle the role of myosin light chains and many others The approach is broad and presents contemporary opinions in pharmacology physiology and biochemistry as they relate to smooth muscle function The book will appeal not only to those working in these disciplines but to vascular clinicians obstetric gynecological physicians and gastroenterologists as well *Airways Smooth Muscle: Biochemical Control of Contraction and Relaxation* David Raeburn, Mark A. Giembycz, 2013-11-11

Vascular Smooth Muscle: Metabolic, Ionic, and Contractile Mechanisms M.F. III Crass, 2012-12-02 Vascular Smooth Muscle Metabolic Ionic and Contractile Mechanisms addresses the vascular smooth muscle function by describing plasma lipoprotein structure synthesis and transport in relation to the concepts of altered vascular smooth muscle lipid metabolism leading to the genesis of atherosclerotic disease This book is organized into six chapters and begins with an introduction to the complexities of energy metabolism and how metabolic events can be correlated with a simultaneous quantitative assessment of smooth muscle mechanics and the contractile machinery at the molecular level The next two chapters offer the reader a view of smooth muscle membrane properties in terms of the distribution transport and metabolic control of electrolytes and specific aspects of ion conductance and electrical activity This text also explains how smooth muscle cells regulate their contractile activity through regulation of calcium ion fluxes and the interaction at the molecular level of calcium ions with regulatory proteins associated with the contractile apparatus Reference is made to the relation of possible anomalies in cellular or subcellular smooth muscle metabolic and or ionic events to the bases of certain types of vascular disease A chapter that examines the events leading to vascular pathology in the form of atherogenesis concludes the book This book is intended for researchers and clinicians engaged in the study of smooth muscle and related areas **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

Medical Physiology

Rodney A. Rhoades, David R. Bell, 2022-01-20 Delivering the most up to date information available in a rich engaging presentation Medical Physiology Principles for Clinical Medicine 6th Edition instills a complete understanding of physiology essential to effective clinical practice This robust text not only details how the human body reacts to internal and external changes but also provides a deep understanding of how physiologic systems coordinate to maintain optimal health as well as the involvement of altered functions in disease processes Extensively updated throughout and fully aligned with today's medical curriculum the 6th Edition emphasizes the physiologic principles key to understanding human function places them in their fundamental context in clinical medicine and provides opportunities for student self directed and team based learning through case studies clinical application exercises and board style review questions

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

Molecular Mechanisms of Smooth Muscle Contraction Kazuhiro Kohama, Yasuharu Sasaki, 1999

Textbook of

Biochemistry with Clinical Correlations Thomas M. Devlin, 2010-01-19 This book presents a clear and precise discussion of the biochemistry of eukaryotic cells particularly those of mammalian tissues relates biochemical events at a cellular level to the subsequent physiological processes in the whole animal and cites examples of abnormal biochemical processes in human disease The organization and content are tied together to provide students with the complete picture of biochemistry and how it relates to human diseases

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 *Asthma and Rhinitis* William W. Busse, Stephen T. Holgate, 2008-04-30 The second edition of this highly acclaimed text has been extensively revised and greatly expanded to reflect the considerable advances made in our understanding of the mechanisms of asthma and rhinitis Containing the contributions of 242 experts of international standing presented in 133 chapters *Asthma and Rhinitis* provides an up to date authoritative reference for both the clinician and scientist The global approach given in this book mirrors the universal approach to the understanding of allergic disease The editors have carried out a thorough and radical revision of the content by adding 6 new sections and 44 new chapters Most of this expansion is due to greatly increased coverage of the clinical aspects of asthma with new sections on childhood asthma and on drug treatment each drug class has its own chapter Also the expansion of research into the genetic basis of asthma has necessitated a whole new section on Genetics comprising some six chapters There are also new chapters on adult onset asthma and the relationship of asthma to sinusitis A new section on Asthma in Special Circumstances includes chapters on asthma in pregnancy asthma and surgery asthma in the elderly and asthma in the context of critical care In bringing the Second Edition fully up to date the book has inevitably increased in size and is now presented in two volumes The second edition of *Asthma and Rhinitis* will continue the tradition of its predecessor of providing an up to the minute reference for all those involved in the management of and research into asthma and rhinitis Central and Peripheral Mechanisms of Cardiovascular Regulation Paul Pilowsky, 2013-03-13 There is increasing awareness that the autonomic nervous system through its central and peripheral pathways plays a critical role in the regulation of the circulation Peripherally the autonomic representation largely that of sympathetic nerves innervate virtually all segments of the vascular tree as well as the adrenal medulla Through the interaction of nerve terminals their transmitters receptors and intracellular mediators in smooth muscle sympathetic neurons control vascular tone as well as the basal performance of the heart In turn the performance of the autonomic nervous system is highly controlled by the brain Once viewed as a black box with only a vague influence on cardiovascular performance the introduction of concepts and techniques of neuroscience into the field of cardiovascular medicine has led to the realization of the critical role of this organ in cardiovascular control It is now well recognized that within the brain the representation of cardiovascular function is highly restricted anatomically engages a number of specific transmitters for its actions and has highly selective and topographically restricted functions to influence circulatory performance Cumulated Index Medicus ,1992 *Biomedical Index to PHS-supported Research* ,1991

Blood Vessel Changes in Hypertension Structure and Function, Volume I R.M.K.W. Lee, 2024-11-01 Written by established researchers this two volume publication provides timely comprehensive and insightful reviews on recent discoveries in the etiology of hypertension Structural changes of the blood vessels in hypertension in relation to connective tissue cerebral vessel structure and innervation smooth muscle cell hypertrophy and or hyperplasia and rarefaction of

microvessels are discussed Also presented are the effects of antihypertensive therapy on vessel structure and function A unique feature is the inclusion of a chapter on pulmonary vascular changes in pulmonary hypertension which shows certain changes that are similar to systemic hypertension This book is of major interest to researchers involved in the study of hypertension and the biology of the blood vessels *Physiology and Pathophysiology of the Heart* Nicholas

Sperelakis,2012-12-06 The first edition of this book was quite successful As in the first edition the book is divided into two major sections cardiac muscle and coronary circula Several complimentary book reviews appeared soon tion The book is multidisciplinary and includes after the first edition was published and written and membrane biophysics electrophysiology physiol oral words of praise and appreciation were given both ogy pathophysiology pharmacology biochemistry to the publisher and to me by quite a few individuals and ultrastructure Thus the book attempts ro It is because of such positive comments and reactions that the publisher and I decided to embark on a integrate all relevant aspects of the factors influenc second edition of Physiology and Pathophysiology of the ing the function of the heart as a vital organ under Heart The second edition was long in preparation normal and various abnormal conditions The book taking over a year to complete All chapter contri also attempts to set the foundation for an under butors were asked to revise improve and update standing of the action and mechanism of action of a their articles and all have done so with enthusiasm number of classes of cardioactive drugs

Uterine Function M.E. Carsten,J.D. Miller,2013-11-11 The frontispiece Leonardo da Vinci s drawing of the embryo in the womb was chosen as a starting point for this book It was Leonardo who in his notebooks and drawings combined artistic composition and accurate recording of the anatomy of the human body Leonardo studied human anatomy in order to execute artistic drawings His aim was to clarify form and function of human organs including reproductive organs He followed up his extensive research with graphic representa tion and thereby initiated record keeping as a basis of scientific investigation His records accurate three dimensional drawings allowed others to reproduce his find ings and to test for correctness Results could be updated and refined Only after these steps can abnormalities be ascertained and defined as pathology Though Leonardo was both artist and scientist it is assumed that his anatomic drawings were used to improve his art and thus scientific endeavor was at the service of his art Anatomy the offspring of science and art is an integration of the two and became an accepted branch of the natural sciences Although art and science continued to interact throughout the Renaissance art was often placed in the service of science In the course of history that followed art and science in creasingly followed separate ways *Proceedings of the National Academy of Sciences of the United States of America* National

Academy of Sciences (U.S.),1977 **Regulation of Smooth Muscle Contraction** Robert S. Moreland,2012-12-06 Sixth Annual Graduate Hospital Research Symposium REGULATION OF SMOOTH MUSCLE PROGRESS IN SOLVING THE PUZZLE Every so often a scientific conference comes at a time when everyone has new and exciting information when old dogmas do not seem to be as well established and when speakers and participants alike are ready to challenge

interpretations of old and new experimental data This was such a conference What turns on a smooth muscle cell The precise answer to this question has eluded scientists for much longer than I have been involved in the field We know that an increase in cytosolic calcium is necessary and we know that phosphorylation of the 20 kDa myosin light chain is an important step in the process We do not know if other processes are necessary for the initiation and for maintenance of a smooth muscle contraction nor do we know if other processes modulate the regulation of contraction The goal of the symposium on which this volume is based was to explore the most current hypotheses for the answers to these questions I believe that after reading the chapters included in this volume you will agree that this goal was achieved The importance of calcium and calmodulin dependent myosin light chain phosphorylation in the regulation of smooth muscle contraction was reinforced by many presentations However the status of myosin light chain phosphorylation as a simple calcium dependent switch came under serious suspicion

Physiology & Biochemistry Of Uterus In Pregnancy & Labor Gabor Huszar, 2020-04-15 First Published in 1986 this book offers a full comprehensive guide to the uterus and how it is affected by pregnancy and childbirth Carefully compiled and filled with a vast repertoire of notes diagrams and references this book serves as a useful reference for students of medicine and other practitioners in their respective fields

Cellular Aspects of Smooth Muscle Function C. Y. Kao, Mary E. Carsten, 1997-08-28 Smooth muscles line many internal organs and in general are involved in moving fluids and slurry around the body They are controlled by the action of hormones by nervous stimulation and can be influenced by drugs This 1997 book provides a review of our understanding of smooth muscle and integrates molecular cellular and physiological information with tissue and anatomical studies Well known researchers have written chapters giving detailed reviews of our current knowledge of the biochemistry pharmacology physiology and anatomy of smooth muscle In particular they cover the seven most important areas of smooth muscle function including morphology electrophysiology mechanisms of electromechanical and pharmacomechanical coupling calcium homeostasis signal transduction mechanics of contraction and the contractile proteins All those interested in muscular contraction will find this book worthwhile whether they are biochemists physiologists or cell biologists

The book delves into Regulation Of The Contractile Cycle In Smooth Muscle. Regulation Of The Contractile Cycle In Smooth Muscle is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Regulation Of The Contractile Cycle In Smooth Muscle, encompassing both the fundamentals and more intricate discussions.

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- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Regulation Of The Contractile Cycle In Smooth Muscle.

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