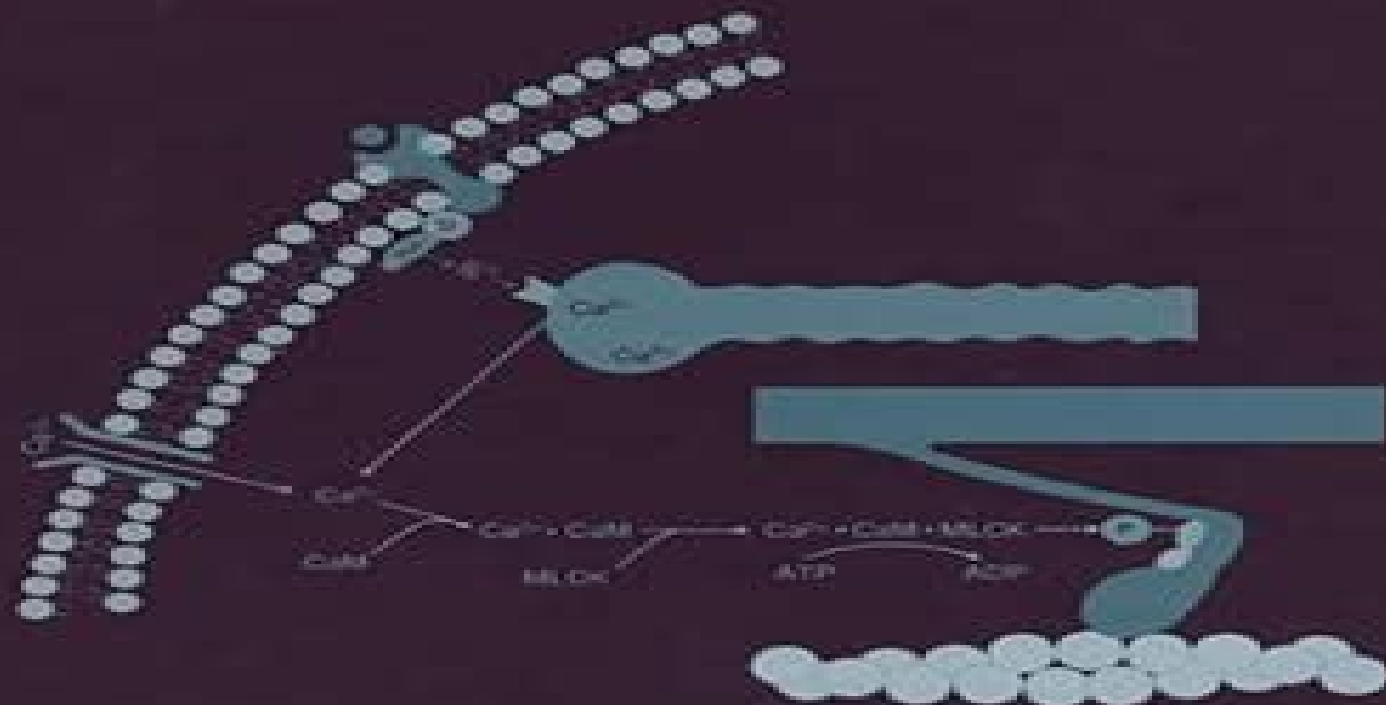


BIOCHEMISTRY OF SMOOTH MUSCLE CONTRACTION



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The Biochemistry Of Smooth Muscle

C. Y. Kao, Mary E. Carsten



The Biochemistry Of Smooth Muscle:

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

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

Biochemistry of Smooth Muscle Newman L. Stephens, 1983

Biochemistry of Smooth Muscle Newman L. Stephens, 1983

The Biochemistry of Smooth Muscle Canadian Heart Foundation, 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 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

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

The Biochemistry of Smooth Muscle Symposium "The Biochemistry of Smooth Muscle.", 1975

Airways Smooth Muscle: Biochemical Control of Contraction and Relaxation David Raeburn, Mark A. Giembycz, 2013-11-11

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

Biochemistry of Smooth Muscle, 1983

Heart Physiology and Pathophysiology Yoshihisa Kurachi, Andre Terzic, Michael V. Cohen, 2000-10-09 Heart Physiology and Pathophysiology 4E provides the foundation for the scientific understanding of heart function and dysfunction and bridges the gap between basic cardiovascular science and clinical cardiology This comprehensive text covers all the important aspects of the heart and vascular system The most important and relevant disorders are presented with emphasis on the mechanisms involved The first three editions of this book developed a reputation as the leading reference in cardiovascular science for researchers and academic cardiologists This recent edition has been updated expanded and includes a number of new contributors It has also been remodeled to expand its usage as a text reference for cardiology residents practicing cardiologists and graduate students Key Features The most comprehensive book available on this topic Clear concise and complete coverage of all important aspects of cardiovascular physiology pathophysiology Completely updated version of the foremost reference on cardiovascular science including new information on pathophysiology and electrophysiology Useful tool in bridging the gap between basic science pathophysiology and clinical cardiology

Further Milestones in Biochemistry M.G. Ord, L.A. Stocken, 1997-05-16 The

contributors to this text who are all biochemists who worked during the 1950s and 60s describe what appears to them to be the conceptually significant developments in biochemistry since the mid 1950s and how these were achieved Their aim is to make their subjects intelligible to other scientists not expert in their field

Guanidino Compounds in Biology and Medicine Joseph F. Clark, 2012-12-06 Guanidino compounds comprise Creatine Arginine and the Guanidines In the past two years there have been over 2000 published articles with the names of these compounds in the title One can go to any nutrition or health food store and buy these as supplements because it is believed they improve health and athletic performance This volume includes an up to date summary of the scientific and clinical aspects of essentially all the biologically active Guanidino Compounds The articles summarize the current scientific knowledge of these compounds with reference to relevant clinical conditions and discuss the chemical biological and clinical functions of these compounds

Biology of Vascular Smooth Muscle: Vasoconstriction and Dilatation Yuansheng Gao, 2017-06-14 This book provides a concise yet comprehensive review of the morphological biochemical electrical mechanical and metabolic properties of vascular smooth muscle the regulation of vascular activities and the intracellular signaling involved It particularly focuses on recently identified vasoactive agents enzymes and transduction mechanisms It also discusses the latest findings in the regulation of cerebral coronary and pulmonary circulation as well as vascular activity under hypoxia and ageing The contraction and dilatation activities of vasculature are of fundamental importance for maintaining circulation homeostasis and adapting physiological changes Over the last four decades there have been significant advances in our understanding of the biochemical structural genetic physiological and pharmacological aspects of vascular activity regulation and these insights into the responsiveness of blood vessels under normal and pathophysiological conditions help to provide valuable weapons in the fight vascular diseases The book is of interest to researchers and graduate students both in basic research and in clinic settings in the field of vascular biology

Cellular Bioenergetics: Role of Coupled Creatine Kinases Valdur A. Saks, Renée Ventura-Clapier, 2012-12-06 Most of the information on the functional role structure and molecular biology of creatine kinase is scattered in several hundreds of publications The editors of this volume invited all authors who are most active at present in experimental research on creatine kinases to summarize their work and make the information easily available to a wider scientific audience especially to young investigators who are entering this field Since the functional role of coupled creatine kinases is directly related to the phenomenon of compartmentation and structural organization of metabolic networks we also invited experts in the related areas to contribute to the volume Almost all invited authors responded enthusiastically and the results of this collective work are presented here For biochemists biophysicists physiologists and medical research workers

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

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Smooth Muscle Contraction Newman L. Stephens, 1984 **Special Cytology** Edmund Vincent Cowdry, 1928 **Cell
Physiology** Nicholas Sperelakis, 2013-10-22 A multi authored and comprehensive text Cell Physiology Source Book enables
graduate students in various biological sub disciplines to gain a thorough understanding of cell physiology It begins with a
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