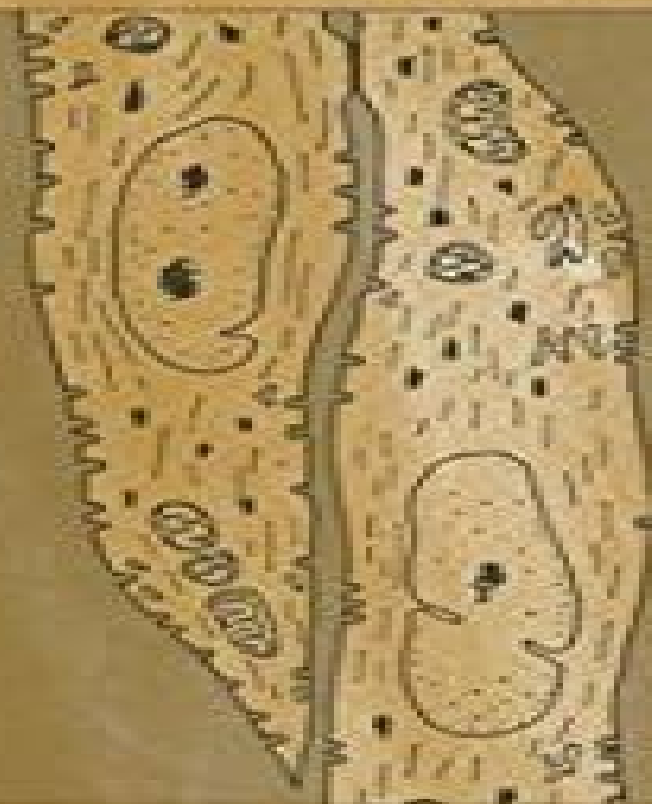


SMOOTH MUSCLE CONTRACTION

New Regulatory Modes

Edited by

Kazuhiro Kohama and Kooichi Saida



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Smooth Muscle Contraction New Regulatory Modes

Walter F. Boron, Emile L. Boulpaep



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Smooth Muscle Contraction Kazuhiro Kohama, Kooichi Saida, 1995 **Smooth Muscle Contraction** K. Kohama, K. Saida, 1995-03-15 **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.

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/or 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.

Current Basic and Pathological Approaches to the Function of Muscle Cells and Tissues Haruo Sugi, 2012-07-18

This volume contains 17 short review articles classified into 3 parts. Part I consists of 7 articles dealing with basic aspects of contractile mechanism in skeletal and smooth muscle cells and also function of melanocytes having many properties common to those of smooth muscles. Part II and Part III contain articles dealing with pathological aspects of cardiac and smooth

muscle cell functions and dealing with factors influencing structure and function of cardiac and smooth muscle cells and tissues The Editor believes that these articles are stimulating and informative for readers interested in basic pathological and clinical aspects of muscle cells and tissues *Molecular Mechanisms of Smooth Muscle Contraction* Kazuhiro Kohama, Yasuharu Sasaki, 1999 **Calcium Inhibitors: A New Mode for Ca²⁺ Regulation** Kohama, 1992 Presents an overview of biological systems controlled by the calcium ion in a variety of cells including plant cells animal cells and lower eukaryotic cells The book discusses how the calcium ion not only activates but also inhibits enzymatic reactions in biological systems *Biological Signals* ,1994 **Cellular Physiology and Biochemistry** ,1995 Acta Anatomica ,1995

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