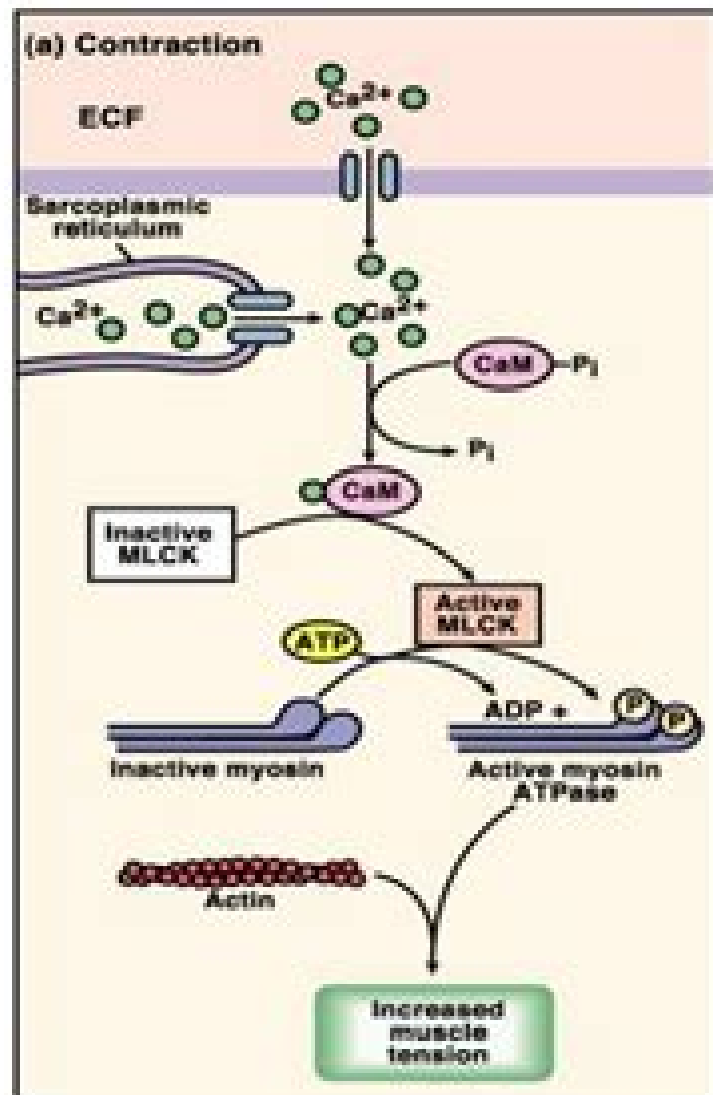


# Smooth Muscle Contraction: Mechanism



- 1 Intracellular  $\text{Ca}^{2+}$  concentrations increase when  $\text{Ca}^{2+}$  enters cell and is released from sarcoplasmic reticulum.
- 2  $\text{Ca}^{2+}$  binds to calmodulin (CaM).
- 3  $\text{Ca}^{2+}$ -calmodulin activates myosin light chain kinase (MLCK).
- 4 MLCK phosphorylates light chains in myosin heads and increases myosin ATPase activity.
- 5 Active myosin crossbridges slide along actin and create muscle tension.

Figure 12-28: Smooth muscle contraction

# Regulation And Contraction Of Smooth Muscle Progress In Clinical And Biological Research V245

**Kazuhiro Kohama, Kooichi Saida**



## **Regulation And Contraction Of Smooth Muscle Progress In Clinical And Biological Research V245:**

**Biological & Agricultural Index**, 1997      **Regulation and Contraction of Smooth Muscle** Marion J.

Siegmán, Andrew P. Somlyó, Newman L. Stephens, 1987-10-25 Spanning a broad spectrum of experimental approaches this volume explores the problem of regulation and contraction of smooth muscle at every level from the molecular to the whole tissue. It offers insights into various areas of this field that are not yet fully understood such as the molecular packing of the native myosin filaments and the conformational changes of the crossbridge associated with the ATPase cycle. Among other topics discussed are ultrastructure and crossbridge kinetics, biochemistry of contractile and regulatory proteins, pharmacological probes of regulatory systems, mechanics and energetics and regulatory mechanisms in intact and skinned muscles. Also highlights a number of outstanding reports including a review of the ultrastructural techniques that have enabled the visualization of crossbridges in smooth muscle in the rigor state. In addition, the book also reviews a major hypothesis on the role of myosin light chain phosphorylation as the key element in regulation of the contractile process by calcium.

*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.

**Regulation of Smooth Muscle Contraction** Robert S. Moreland, 1992-01-31      **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 and Contraction of Smooth Muscle** International Union of Physiological Sciences. Satellite Conference on Smooth Muscle Contraction, Marion J. Siegman, Andrew Paul Somlyo, Newman L.

Stephens, International Union of Physiological Sciences. Congress, 1987 Molecular and Cellular Aspects of Muscle

Contraction Haruo Sugi, 2003 This volume presents the proceedings of a muscle symposium which was held as the Fourth Fujihara seminar on October 28 November 1 2002 at Hakone Japan This volume covers all fields of muscle biology from molecules to humans This book provides information about recent progress of muscle research as well as the problems that remain to be investigated This volume will stimulate muscle investigators to design and perform novel experiments to clarify the mysteries in muscle contraction *Smooth Muscle Contraction* K. Kohama, K. Saida, 1995-03-15 **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 **Muscle Contraction** Clive R. Bagshaw, 1982-10-21 The student of biological science in his final years

as an undergraduate and his first years as a graduate is expected to gain some familiarity with current research at the frontiers of his discipline New research work is published in a perplexing diversity of publications and is inevitably concerned with the minutiae of the subject The sheer number of research journals and papers also causes confusion and difficulties of assimilation Review articles usually presuppose a background knowledge of the field and are inevitably rather restricted in scope There is thus a need for short but authoritative introductions to those areas of modern biological research which are either not dealt with in standard introductory textbooks or are not dealt with in sufficient detail to enable the student to go on from them to read scholarly reviews with profit This series of books is designed to satisfy this need The authors have been asked to produce a brief outline of their subject assuming that their readers will have read and remembered much of a standard introductory textbook of biology This outline then sets out to provide by building on this basis the conceptual framework within which modern research work is progressing and aims to give the reader an indication of the problems both conceptual and practical which must be overcome if progress is to be maintained **Frontiers in Smooth Muscle**

**Research** Jack D. Wood, 1990 This volume features up to date multidisciplinary material on the function and dysfunction of smooth muscles Prepared by leading investigators it covers all aspects of smooth muscle function including mechanisms of contraction energetics biochemistry of contractile proteins ion pumping cell coupling and cable properties and electrophysiology      **The Regulation of Muscle Contraction** Alan Grinnell, Mary Agnes Burniston Brazier, 1981

**Smooth Muscle Contraction** Newman L. Stephens, 1984      *Smooth Muscle Contraction* Kazuhiro Kohama, Kooichi Saida, 1995      **Regulation and Contraction of Smooth Muscle** George J. Brewer, 1987

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