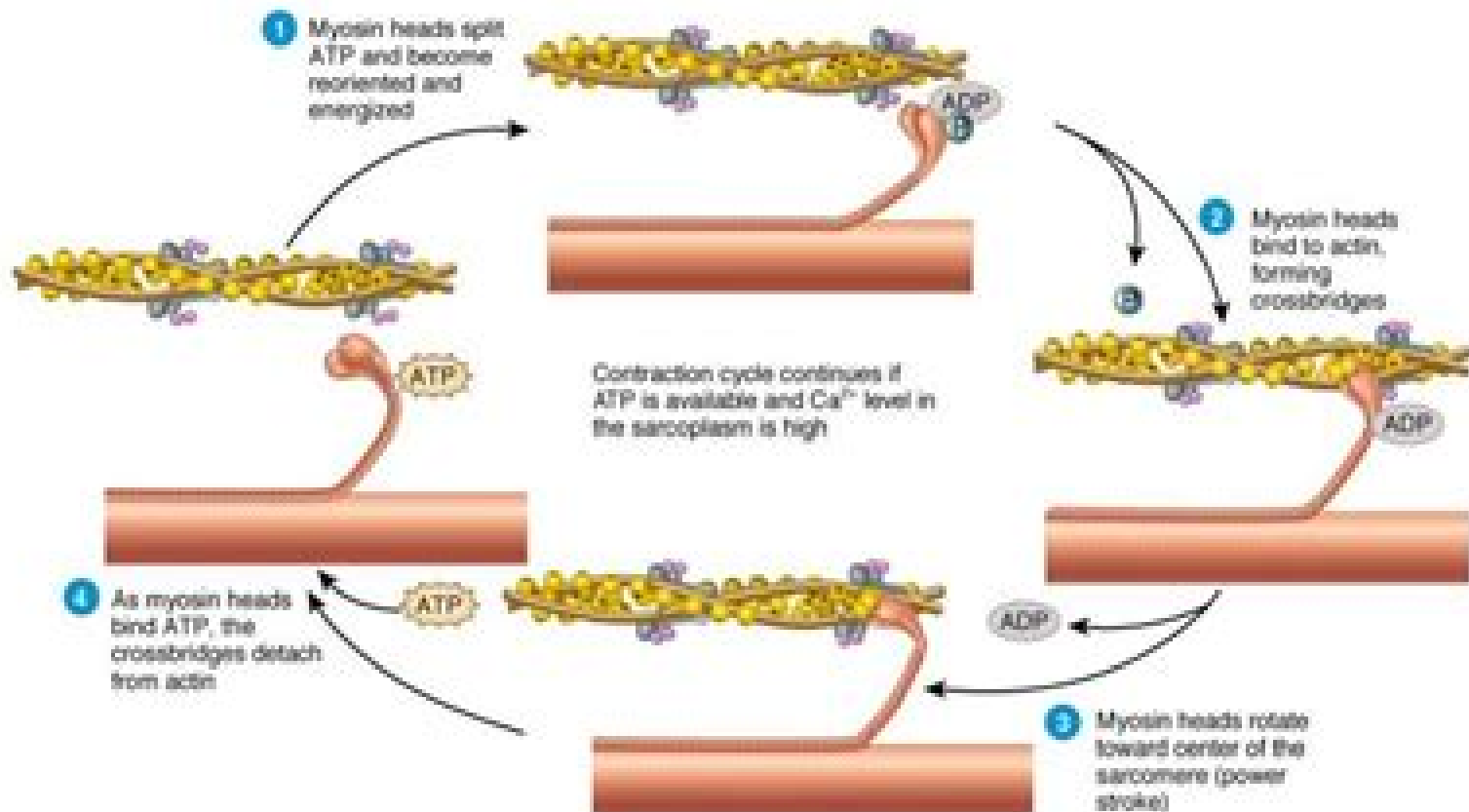


Steps of a Muscle Contraction

□ Sliding filament theory



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Newman L. Stephens



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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 Smooth Muscle Contraction Newman L. Stephens, 1984 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 **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 Regulation of Smooth Muscle Contraction Robert S Moreland,1992-01-31 Muscle Contraction Clive R. Bagshaw,1992-12-14 **Mechanism of Muscular Contraction** Jack A. Rall,2014-10-21 This book describes the evolution of ideas relating to the mechanism of muscular contraction since the discovery of sliding filaments in 1954 An amazing variety of experimental techniques have been employed to investigate the mechanism of muscular contraction and relaxation Some background of these various techniques is presented in order to gain a fuller appreciation of their strengths and weaknesses Controversies in the muscle field are discussed along with some missed opportunities and false trails The pathway to ATP and the high energy phosphate bond will be discussed as well as the discovery of myosin contraction coupling and the emergence of cell and molecular biology in the muscle field Numerous figures from original papers are also included for readers to see the data that led to important conclusions This book is published on behalf of the American Physiological Society by Springer Access to APS books published with Springer is free to APS members *The Structural Basis of Muscular Contraction* John Squire,1981-09-30 Muscular contraction provides one of the most fascinating topics for a biophysicist to study Although muscle comprises a molecular machine whereby chemical energy is converted to mechanical work its action in producing force is something that is readily observable in everyday life a feature that does not apply to most other structures of biophysical interest In addition muscle is so beautifully organized at the microscopic level that those important structural probes electron microscopy with the associated image analysis methods and X ray diffraction have provided a wealth of information about the arrangements of the constituent proteins in a variety of muscle types But despite all this the answer to the question How does muscle work is still uncertain especially with regard to the molecular events by which force is actually generated and the question remains one of the major unsolved problems in biology With this problem in mind this book has been written to collect together the available evidence on the structures of the muscle filaments and on their arrangements in different muscle cells to extract the common structural features of these cells and thus to attempt to define a possible series of mechanical steps that will describe at molecular resolution the process by which force is generated The book cannot be considered to be an introductory text in fact it presents a very detailed account of muscle structure as gleaned mainly from electron microscopy and X ray diffraction

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