

# Skeletal Muscle Mechanics

*From Mechanisms to Function*

*Edited by* **Walter Herzog**

 **WILEY**

# Skeletal Muscle Mechanics From Mechanisms To Function

**Youlian Hong, Roger Bartlett**



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Skeletal Muscle Mechanics W. Herzog, 2000-10-03 *Skeletal Muscle Mechanics From Mechanisms to Function* summarises the variety of approaches used by today's scientist to understand muscle function and the mechanisms of contraction This book contains research by leading scientists from numerous fields using many different scientific techniques Topics covered include Cellular and molecular mechanisms of skeletal muscle contraction Historical perspective of muscle research The newest developments in techniques for the determination of the mechanical properties of single cross bridges Theoretical modelling of muscle contraction and force production Multifaceted approaches to determine the in vivo function of skeletal muscle This state of the art account is written by internationally recognised authors and will be a valuable resource to researchers of biomechanics in sports science and exercise physiology I expect this book to be excellent and timely Professor R McNeill Alexander FRS School of Biology University of Leeds UK *Biomedical Index to PHS-supported Research*, 1990

*Research Awards Index*, 1981 **Subject Index of Current Research Grants and Contracts Administered by the National Heart, Lung and Blood Institute** National Heart, Lung, and Blood Institute, 1978 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1975 **Subject Index of Current Research Grants and Contracts Administered by the National Heart and Lung Institute** National Heart and Lung Institute, 1975 *Cell Physiology Source Book* Nicholas Sperelakis, 2011-11-29 *Cell Physiology Source Book* gathers together a broad range of ideas and topics that define the field It provides clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics The 4e contains substantial new material Most chapters have been thoroughly reworked The book includes chapters on important topics such as sensory transduction the physiology of protozoa and bacteria and synaptic transmission Authored by leading researchers in the field Clear concise and comprehensive coverage of all aspects of cellular physiology from fundamental concepts to more advanced topics Full color illustrations

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*Principles of Neuromusculoskeletal Treatment and Management* Nicola J. Petty,2004 A systematic working guide to the treatment and management of the neuromusculoskeletal system this book provides vital information for both students and experienced therapists It provides a memorization aide to the treatment and management options a vehicle for the integration of protocols and material on the philosophies favored by the different schools of thought Cumulated Index Medicus ,1985 Routledge Handbook of Biomechanics and Human Movement Science Youlian Hong,Roger

Bartlett,2008-06-03 The Routledge Handbook of Biomechanics and Human Movement Science is a landmark work of reference Now available in a concise paperback edition it offers a comprehensive and in depth survey of current theory research and practice in sports exercise and clinical biomechanics in both established and emerging contexts Including contributions from many of the world s leading biomechanists the book is arranged into five thematic sections biomechanics in sports injury orthopedics and rehabilitation health and rehabilitation training learning and coaching methodologies and systems of measurement Drawing explicit connections between the theoretical investigative and applied components of sports science research this book is both a definitive subject guide and an important contribution to the contemporary research agenda in biomechanics and human movement science It is essential reading for all students scholars and researchers working in sports biomechanics kinesiology ergonomics sports engineering orthopaedics and physical therapy

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intercellular communication and the transport signals within and between the cells controlling cardiac function are described  
and discussed in this volume Although it concentrates on basic phenomena strong emphasis is given to the related clinical  
and pharmaceutical manifestations     *Who's who in Technology: Who's who in biotechnology* ,1986     *American Journal of*  
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