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An award-winning book that challenges the current wisdom of how cells work in a visionary, provocative, and accessible way... reads like a detective story. This highly praised book emphasises the role of cell water and the gel-like nature of the cell, building on these features to explore the mechanisms of communication, transport, contraction, division, and other essential cell functions. Lucidly written for the non-expert, the book is profound enough for biologists, chemists, physicists and engineers to devour.

Thoroughly researched using experimentation and re-examination of all previously published evidence, *Molecular and Physiological Mechanisms of Muscle Contraction* is a carefully crafted treatise and revision of previous conceptions of muscle contraction. It presents detailed descriptions of new, previously unpublished data and hybrids recent findings with the standard Huxley model. This book demonstrates that traditional concepts cannot fully explain contraction and builds upon previous work. It identifies flaws in the reasoning initially used to explain some results as well

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as alternative interpretations accounting for inconsistencies. In response to previous bodies of inconsistent or conflicting theories and data, the book synthesizes research based on the Huxley model with more recent experimental and laboratory findings to define a new model. The new model this book proposes is not a replacement for the standard Huxley model of muscle contraction, but a modification based on recent research and synthesized with pre-existing data and conceptions. It reconciles new data with prior information that is contradictory or not entirely explicable in proposing a new integrated and more complete model of muscle contraction.

In concept and execution, this book covers the field of EAP with careful attention to all its key aspects and full infrastructure, including the available materials, analytical models, processing techniques, and characterization methods. In this second edition the reader is brought current on promising advances in EAP that have occurred in electric EAP, electroactive polymer gels, ionomeric polymer-metal composites, carbon nanotube actuators, and more.

Actins are a highly conserved family of proteins found in virtually all eukaryotic cells. They have prolific roles in cell motility - from the contraction of striated muscle to the movement of organelles within cells, and are known to interact with a diverse number of proteins families from myosins to gelsolins. This up-to-date edition gives a comprehensive account of actin sequence, mutation and structure as well as providing insight into ligand-binding sites and drug and toxin binding. Illustrated throughout, this modern text also

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contains an extensive bibliography for the interested reader.

Volume 3 of Structure of Antigens presents analytical methods used to elucidate the structure of antigens. As in the first two volumes, this reference focuses on the structure and analysis of antibody binding sites. It brings together the structural basis of major types of antigens, including lysozyme, cytochrome c, muscle proteins, cereal and milk proteins, carbohydrate antigens, and more. Major groups of antigens associated with particular biological systems, such as the cytoskeleton, muscle proteins, and viral antigens, are discussed. This reference analyzes the molecular basis of antibody specificity and the structure of T cell epitopes.

Elastic filaments refer mainly to titin, the largest of all known proteins. Titin was discovered initially in muscle cells, where it interconnects the thick filament with the Z-line. Titin forms a molecular spring that is responsible for maintaining the structural integrity of contracting muscle, ensuring efficient muscle contraction. More recently, it has become clear that titin is not restricted to muscle cells alone. For example, titin is found in chromosomes of neurons and also in blood platelets. This topic is fast becoming a focal point for research in understanding viscoelastic properties at the molecular, cellular, and tissue levels. In titin may lie a generic basis for biological viscoelasticity. It has become clear that titin may hold the key to certain clinical anomalies. For example, it is clear that titin-based ventricular stiffness is modulated by calcium and that titin is responsible for the altered

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stiffness in cardiomyopathies. It is also clear from evidence from a group of Finnish families that titin mutations may underlie some muscular dystrophies and that with other mutations chromatids fail to separate during mitosis. Thus, it is clear that this protein will have important clinical implications stemming from its biomechanical role. One aspect of this field is the bringing together of bioengineers with clinical researchers and biologists. Genetic and biochemical aspects of titin-related proteins are being studied together with front-line engineering approaches designed to measure the mechanics of titin either in small aggregates or in single molecules.

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

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