Biophysical principles of structure and function (The Addison-Wesley series in the life sciences)

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Snell, Fred M

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Biophysical Principles Of Structure Fu

Fred M. Snell

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Supramolecular Structure and Function Greta Pifat-Mrzljak, 2013-03-12 During the past decade we have witnessed not only an increase in knowledge of the traditional biophysical problems but also an understanding of the molecular basis of various biological phenomena The principles and methods of biophysics now provide an underpin ning of all of the basic biosciences and are the rational language for discussion between scientists of different disciplines The International School on Biophysics Supramolecular Structure and Function held in Dubrovnik in September 1984 had as its goal to provide comprehensive discussions on a large number of subjects both for younger scientists at the doctoral or postdoctoral level interested in the molecular nature of fundamental biological entities and for experienced scientists wishing to gain a broader insight into molecular structures and functions The topics discussed at the School were inter and intramolecular interactions in biological systems and the structure organization and function of biological macromolecules and supramolecular assemblies A number of topics were centered around either a biological problem or a physical technique sometimes giving an unbalanced view of the field under discussion Some of the topics required previous knowledge of basic biophysical principles which were then applied to gain greater insight into the molecular functions of diverse supramolecular systems Although not all the lectures could be prepared for publication in this volume I hope that it contains valuable up to date information on various aspects of the molecular basis of life Comprehensive Biophysics, 2012-04-12 Biophysics is a rapidly evolving interdisciplinary science that applies theories and methods of the physical sciences to questions of biology Biophysics encompasses many disciplines including physics chemistry mathematics biology biochemistry medicine pharmacology physiology and neuroscience and it is essential that scientists working in these varied fields are able to understand each other's research Comprehensive Biophysics Nine Volume Set will help bridge that communication gap Written by a team of researchers at the forefront of their respective fields under the guidance of Chief Editor Edward Egelman Comprehensive Biophysics Nine Volume Set provides definitive introductions to a broad array of topics uniting different areas of biophysics research from the physical techniques for studying macromolecular structure to protein folding muscle and molecular motors cell biophysics bioenergetics and more The result is this comprehensive scientific resource a valuable tool both for helping researchers come to grips quickly with material from related biophysics fields outside their areas of expertise and for reinforcing their existing knowledge Biophysical research today encompasses many areas of biology These studies do not

necessarily share a unique identifying factor This work unites the different areas of research and allows users regardless of their background to navigate through the most essential concepts with ease saving them time and vastly improving their understanding The field of biophysics counts several journals that are directly and indirectly concerned with the field There is no reference work that encompasses the entire field and unites the different areas of research through deep foundational reviews Comprehensive Biophysics fills this vacuum being a definitive work on biophysics It will help users apply context to the diverse journal literature offering and aid them in identifying areas for further research Chief Editor Edward Egelman E I C Biophysical Journal has assembled an impressive world class team of Volume Editors and Contributing Authors Each chapter has been painstakingly reviewed and checked for consistent high quality. The result is an authoritative overview which ties the literature together and provides the user with a reliable background information and citation resource The Fundamentals of Biophysics, Welcome to the forefront of knowledge with Cybellium your trusted partner in mastering the cutting edge fields of IT Artificial Intelligence Cyber Security Business Economics and Science Designed for professionals students and enthusiasts alike our comprehensive books empower you to stay ahead in a rapidly evolving digital world Expert Insights Our books provide deep actionable insights that bridge the gap between theory and practical application Up to Date Content Stay current with the latest advancements trends and best practices in IT Al Cybersecurity Business Economics and Science Each guide is regularly updated to reflect the newest developments and challenges Comprehensive Coverage Whether you re a beginner or an advanced learner Cybellium books cover a wide range of topics from foundational principles to specialized knowledge tailored to your level of expertise Become part of a global network of learners and professionals who trust Cybellium to guide their educational journey www cybellium com Functional Morphology in Vertebrate Paleontology Jeff Thomason, 1997-10-28 Looks at how fossil vertebrates moved fed and reproduced Textbook of Ion Channels Volume II Jie Zheng, Matthew C. Trudeau, 2023-06-28 The Textbook of Ion Channels is a set of three volumes that provides a wide ranging refer ence source on ion channels for students instructors and researchers Ion channels are membrane proteins that control the electrical properties of neurons and cardiac cells mediate the detection and response to sensory stimuli like light sound odor and taste and regulate the response to physical stimuli like temperature and pressure In non excit able tissues ion channels are instrumental for the regulation of basic salt balance that is critical for homeostasis Ion channels are located at the surface membrane of cells giving them the unique ability to communicate with the environment as well as the membrane of intracellular organelles allowing them to regulate internal homeostasis Ion channels are fundamentally important for human health and diseases and are important targets for pharmaceuticals in mental illness heart disease anesthesia pain and other clinical appli cations The modern methods used in their study are powerful and diverse ranging from single ion channel measurement techniques to models of ion channel diseases in animals and human clinical trials for ion channel drugs Volume II starts with ion channel taxonomy and features coverage of major ion channel families

and describes the physiological role structural components gating mechanisms and biophysics permeation and selectivity regulation pharmacology and roles in dis ease mechanisms Channels in this volume include voltage activated sodium calcium and potassium channels inward rectifier and two pore domain potassium channels calcium activated potassium channels cyclic nucleotide gated channels pacemaker ion channels chloride channels ligand gated receptors activated by acetylcholine glutamate 5 HT3 GABA and glycine acid sensing channels P2X receptors TRP channels store operated channels pressure activated piezo channels ryanodine receptors and proton channels All three volumes give the reader an introduction to fundamental concepts needed to understand the mechanism of ion channels a guide to the technical aspects of ion channel research offer a modern guide to the properties of major ion channel families and include coverage of key examples of regulatory physiological and disease roles for ion channels

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