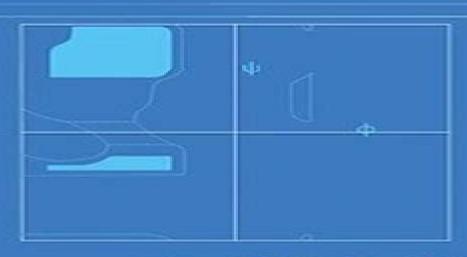
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BIOMOLECULAR FORMS AND FUNCTIONS A Celebration of 50 years of the Ramachandran Map





G N Ramachandran

Edited by Manju Bansal & N Srinivasan





Biomolecular Forms And Functions Biomolecular Forms And Functions

Ariel Fernández

Biomolecular Forms And Functions Biomolecular Forms And Functions:

Biomolecular Forms and Functions Manju Bansal, N. Sriniyasan, 2013 This volume is primarily a compilation of contributed articles representing the impact and application of Ramachandran's work on conformation analysis of biopolymers as well as recent advances in macromolecular structural biology involving diverse experimental and computational approaches This volume is being published to coincide with a conference on Biomolecular Forms and Functions A celebration of 50 years of the Ramachandran Map being held at the Indian Institute of Science Bangalore in **Dynamics, Structure, and Function of Biological Macromolecules** Oleg Jardetzky, Michael D. January 2013 Finucane, 2001 A collection of articles looking at modern structural biology summarizing the applications of physical methods such as x ray diffraction high resolution nuclear magnetic resonance and molecular dynamics to the study of protein structure and dynamics There is a review of contemporary thoughts within the field looking at the mechanisms of alloateric transitions and allosteric control the transmission of information within protein structures and the role of dynamics in determining the specificity of protein ligand interactions. There is also a look at future innovations The Three Functional States of Proteins Timir Tripathi, Vladimir N Uversky, 2024-11-17 The Three Functional States of Proteins explores how structured proteins intrinsically disordered proteins and phase separated proteins contribute to the complexity of cellular life and offers insights into their roles in both health and disease It discusses the latest research findings and highlight groundbreaking discoveries and innovative methodologies used to study these protein states Traditionally the different states of proteins have been defined based on their structures and functions However it is becoming increasingly clear that these criteria alone may not be sufficient to capture the complex and multifaceted properties of these molecules Definitions based on thermodynamics and kinetics are now recognized as potentially more appropriate for comprehensively understanding protein states Emerging evidence indicates that under physiological conditions a majority of proteins possess the capability to exist in and transition between the native droplet and amyloid states These distinct states play crucial roles in various cellular functions influenced significantly by their physicochemical and structural properties The book also considers the interactions among these states and discusses how their internal organization as individual molecules as well as their collective organization as molecular assemblies are stabilized Furthermore it examines the processes by which these states are formed and the cellular functions associated with each specific state The book serves as an introduction to a unique volume that provides comprehensive coverage of these three functional states of proteins The chapters are written by leading global scientists who are actively engaged in research on these specific protein states It presents a broad picture of the current emerging and evolving research on these protein states Given that this book comprehensively addresses both foundational concepts and recent advancements in the field it will appeal a broad spectrum of readers from various academic disciplines Computational Biochemistry and Biophysics Oren M. Becker, Alexander D. MacKerell Jr., Benoit

Roux, Masakatsu Watanabe, 2001-02-09 Covering theoretical methods and computational techniques in biomolecular research this book focuses on approaches for the treatment of macromolecules including proteins nucleic acids and bilayer membranes It uses concepts in free energy calculations conformational analysis reaction rates and transition pathways to calculate and interpret b Methods in Protein Design ,2013-02-14 This new volume of Methods in Enzymology continues the legacy of this premier serial by containing quality chapters authored by leaders in the field This volume covers methods in protein design and it has chapters on such topics as protein switch engineering by domain insertion evolution based design of proteins and computationally designed proteins Continues the legacy of this premier serial with quality chapters authored by leaders in the field Covers methods in protein design Contains chapters with such topics as protein switch engineering by domain insertion evolution based design of proteins and computationally designed proteins **Computational Biochemistry** Manju Yadav, 2009 *Unbound* Rajroshan Poojari, 2025-01-30 From a small Indian village to the forefront of global medical innovation this book tells the inspiring story of Dr Virender S Sangwan a pioneer in regenerative medicine and stem cell research whose work has revolutionized eye care around the world Driven by a relentless passion for accessible healthcare Dr Sangwan's groundbreaking innovations such as the simple limbal epithelial transplantation SLET technique have transformed the lives of millions It is a powerful narrative of resilience compassion and the transformative power of medical innovation This book is a must read for anyone passionate about science social impact and the transformative potential of accessible healthcare It offers an insightful and deeply emotional account of a man whose work continues to Molecular Science of Fluctuations Toward Biological Functions Mazahide change the world one patient at a time Terazima, Mikio Kataoka, Ryuichi Ueoka, Yuko Okamoto, 2016-02-09 In this monograph the importance of fluctuations for biological reactions is discussed from various points of view Understanding the biological reactions at the molecular level is one of the major targets in many scientific fields including not only basic biology but also physics physical chemistry and medical science One of the key factors in the process is fluctuation Thermal energy causes biological molecules to be in constant fluctuation even while they are carrying out their biological functions How do biological systems overcome the thermal fluctuations to realize the physiologically relevant reactions Scientists in a number of fields physics chemistry pharmacology medicine and others have contributed chapters that elucidate the nature of the fluctuations and the relationship between fluctuations and biological functions The fluctuations discussed in this volume are detected by the transient grating method nuclear magnetic resonance X ray diffraction and scattering and computer simulation among other methods The book presents various results of the studies of fluctuations in biological processes that were obtained with these methods by the leading scientists in their fields *Omics Technologies and Bio-engineering* Debmalya Barh, Vasco Ariston De Car Azevedo, 2017-12-01 Omics Technologies and Bio Engineering Towards Improving Quality of Life Volume 1 is a unique reference that brings together multiple perspectives on omics research providing in depth analysis and insights from an

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