

LO4: Biomolecular structure and function

Proteins as biomolecules achieve globular structures as thermodynamically stable, supercoiled proteins. Hydrophobic bonds drive thermodynamic structure and is generally the main energy that results in folded the supercoiled structures.



Most proteins are soluble and are thermodynamically stable structures of individual components and subunits within themselves. This is the energetic basis for structure.



Biomolecular Structure And Function

Miesfeld, Roger L., McEvoy, Megan M.



Biomolecular Structure And Function:

Biomolecular Structure and Function Paul Agris, 2012-12-02 Biomolecular Structure and Function covers the proceedings of the 1977 Cellular Function and Molecular Structure Biophysical Approaches to Biological Problems symposium. It summarizes the application of several biophysical techniques to molecular research in biology. This book starts by describing the use of deuterium labeled lipids as monitors of the degree of organization of membrane lipids. It also describes the use of carbon 13 labeled lipids as indicators of molecular mobility. It explains the lipid protein interactions involving two integral membrane proteins: mitochondrial cytochrome oxidase and calcium dependent ATPase of muscle sarcoplasmic reticulum. The book goes on to present NMR studies on the organization and conformation of phospholipids, chloroplast membranes and erythrocyte membranes. It also presents the ESR study of spectrin phospholipid associations. It discusses the use of fluorescence probes, electrokinetics, neutron diffraction and ion theory studies of phospholipid protein association, hormone disease and senescence effects on prokaryotic and eukaryotic cells. Moreover, this book presents the experiments and phosphorus 31 NMR methodology to simultaneously monitor the intracellular pH and phosphate metabolism in a beating heart, functioning kidney or an intact living microorganism. This book then describes physical probing of intracellular fluidity and structural changes attending tissue or cell cycles. It also relates relatively narrow lines in the hydrogen 1 NMR spectrum of the extremely viscous complex of the muscle protein troponin and highly polymerized tropomyosin. Structure function studies of fibrous proteins such as collagen, actin and myosin and active site analysis of enzymes are also presented. Finally, a wide variety of methodologies and technologies is exemplified. This includes proton, carbon, fluorine, phosphorus and lithium NMR spectroscopy, spin labeling and EPR spectroscopy, chemical studies, light scattering and fluorescence and electron microscopy.

Biomolecular Structure, Conformation, Function and Evolution Conformation International Symposium on Biomolecular Structure (Function and Evolution (1978 : Madras, India)), 1981

Biomolecular Structure Fouad Sabry, 2025-03-14 Biomolecular Structure delves deep into the cutting-edge realm of DNA Nanotechnology, exploring the intricate structures that govern life at the molecular level. Aimed at professionals, students, and enthusiasts alike, this book offers a comprehensive understanding of the molecular biology and bioengineering principles vital for advancing nanotechnology. Through an in-depth exploration of nucleic acids, proteins, and computational methods, this book bridges theoretical knowledge with practical applications.

Chapters:

- Brief Overview
- 1 Biomolecular structure: Discover the fundamental building blocks of life essential for DNA nanotechnology.
- 2 History of molecular biology: Explore the evolution of molecular biology and its role in modern science.
- 3 Biomolecule: Understand the significance of biomolecules in the development of nanotechnology.
- 4 Nucleic acid structure determination: Learn how scientists decode the complex structure of nucleic acids.
- 5 Biomolecular engineering: Dive into the techniques used to engineer biomolecules for various applications.
- 6 Molecular models of DNA: Understand the different models that describe DNA's complex molecular structure.
- 7 Nucleic acid

secondary structure Investigate the unique secondary structures that play key roles in DNA functions 8 Noncanonical base pairing Explore alternative base pairing mechanisms in nucleic acids 9 Nucleic acid design Discover how scientists design artificial nucleic acids for novel applications 10 Protein biosynthesis Learn about the critical process of protein synthesis in living organisms 11 Nucleic acid quaternary structure Unveil the complex higherorder structures that influence nucleic acid function 12 Protein structure Delve into the molecular architecture of proteins and their implications in biotechnology 13 PSIPRED Understand how PSIPRED predicts protein structures a crucial tool in bioinformatics 14 Nucleic acid structure prediction Learn about the prediction methods that model nucleic acid structures 15 Structural bioinformatics Explore computational methods used to understand biomolecular structures 16 Nucleic acid thermodynamics Gain insight into the thermodynamic principles governing nucleic acid stability 17 Nucleic acid structure Explore the comprehensive study of nucleic acid structures and their functionalities 18 Hoogsteen base pair Investigate the Hoogsteen base pairing a special form of nucleic acid interaction 19 Nucleic acid Examine the essential role of nucleic acids in cellular processes and nanotechnology 20 Nucleic acid tertiary structure Understand the threedimensional structures of nucleic acids 21 Denaturation biochemistry Learn about the denaturation process and its impact on biomolecular function This book is designed to provide readers with a detailed understanding of DNA nanotechnology from foundational structures to advanced computational techniques It not only highlights the theoretical aspects but also offers practical insights that can be applied in research industry and future innovations in molecular engineering Whether you re a professional in the field an undergraduate or graduate student or a hobbyist exploring the world of DNA nanotechnology this book serves as a vital resource that will guide you through the complex yet fascinating world of biomolecular structures

Biomolecular Structure and Dynamics G. Vergoten,T. Theophanides,2012-12-06 Biomolecular Structure and Dynamics describes recent fundamental advances in the experimental and theoretical study of molecular dynamics and stochastic dynamic simulations X ray crystallography and NMR of biomolecules the structure of proteins and its prediction time resolved Fourier transform IR spectroscopy of biomolecules the computation of free energy applications of vibrational CD of nucleic acids and solid state NMR Further presentations include recent advances in UV resonance Raman spectroscopy of biomolecules semiempirical MO methods empirical force fields quantitative studies of the structure of proteins in water by Fourier transform IR and density functional theory Metal ligand interactions DFT treatment of organometallic and biological systems and simulation vs X ray and far IR experiments are also discussed in some detail The book provides a broad perspective of the current theoretical aspects and recent experimental findings in the field of biomolecular dynamics revealing future research trends especially in areas where theoreticians and experimentalists could fruitfully collaborate

Mathematical Approaches to Biomolecular Structure and Dynamics Jill P. Mesirov,Klaus Schulten,De Witt Sumners,2012-12-06 This IMA Volume in Mathematics and its Applications MATHEMATICAL APPROACHES TO BIOMOLECULAR STRUCTURE AND DYNAMICS is

one of the two volumes based on the proceedings of the 1994 IMA Summer Program on Molecular Biology and comprises Weeks 3 and 4 of the four week program Weeks 1 and 2 appeared as Volume 81 Genetic Mapping and DNA Sequencing We thank Jill P Mesirov Klaus Schulten and De Witt Sumners for organizing Weeks 3 and 4 of the workshop and for editing the proceedings We also take this opportunity to thank the National Institutes of Health NIH National Center for Human Genome Research the National Science Foundation NSF Biological Instrumentation and Resources and the Department of Energy DOE whose financial support made the summer program possible A vner Friedman Robert Gulliver v PREFACE The revolutionary progress in molecular biology within the last 30 years opens the way to full understanding of the molecular structures and mechanisms of living organisms Interdisciplinary research in mathematics and molecular biology is driven by ever growing experimental theoretical and computational power The mathematical sciences accompany and support much of the progress achieved by experiment and computation as well as provide insight into geometric and topological properties of biomolecular structure and processes This volume consists of a representative sample of the papers presented during the last two weeks of the month long Institute for Mathematics and Its Applications Summer 1994 Program in Molecular Biology

Guide to Programs National Science Foundation (U.S.),1997 Advanced Spectroscopic Methods to Study Biomolecular Structure and Dynamics Prakash Saudagar,Timir Tripathi,2022-09-28 Advanced Spectroscopic Methods to Study Biomolecular Structure and Dynamics presents the latest emerging technologies in spectroscopy and advances in established spectroscopic methods The book presents a guide to research methods in biomolecular spectroscopy providing comprehensive coverage of developments in the spectroscopic techniques used to study protein structure and dynamics Seventeen chapters from leading researchers cover key aspects of spectroscopic methods with each chapter covering structure folding and dynamics This title will help researchers keep up to date on the latest novel methods and advances in established methods Presents current emerging and evolving advances and applications of spectroscopic techniques in the study of biomolecules including proteins and nucleic acids Discusses contemporary spectroscopic techniques used to study biomolecular structure interaction and dynamics **Biochemistry** Roger L Miesfeld,Megan M McEvoy,2016-09-28 *Biochemistry* promotes understanding of biochemical concepts through highly readable chapters that consistently integrate stunning graphics with text Its distinctive table of contents highlights how biochemical processes work and applications to everyday biochemistry ensure that students develop a complete understanding of why biochemistry matters *Biochemistry* Miesfeld, Roger L.,McEvoy, Megan M.,2020-12-04 Drawing on more than three decades of teaching experience Roger Miesfeld and Megan McEvoy created a book that is both a learning tool for students and a teaching tool for instructors one that delivers exceptionally readable explanations stunning graphics and rigorous content Relevant everyday biochemistry examples make clear why biochemistry matters in a way that develops students knowledge base and critical thinking skills The second edition includes exciting new Your Turn critical thinking pedagogy a thoughtful balance of biology and chemistry

a compelling ebook featuring 3D molecular images videos animations and more *Structural Bioinformatics* Jenny Gu, Philip E. Bourne, 2011-09-20 Structural Bioinformatics was the first major effort to show the application of the principles and basic knowledge of the larger field of bioinformatics to questions focusing on macromolecular structure such as the prediction of protein structure and how proteins carry out cellular functions and how the application of bioinformatics to these life science issues can improve healthcare by accelerating drug discovery and development Designed primarily as a reference the first edition nevertheless saw widespread use as a textbook in graduate and undergraduate university courses dealing with the theories and associated algorithms resources and tools used in the analysis prediction and theoretical underpinnings of DNA RNA and proteins This new edition contains not only thorough updates of the advances in structural bioinformatics since publication of the first edition but also features eleven new chapters dealing with frontier areas of high scientific impact including sampling and search techniques use of mass spectrometry genome functional annotation and much more Offering detailed coverage for practitioners while remaining accessible to the novice Structural Bioinformatics Second Edition is a valuable resource and an excellent textbook for a range of readers in the bioinformatics and advanced biology fields Praise for the previous edition This book is a gold mine of fundamental and practical information in an area not previously well represented in book form Biochemistry and Molecular Education destined to become a classic reference work for workers at all levels in structural bioinformatics recommended with great enthusiasm for educators researchers and graduate students BAMBED a useful and timely summary of a rapidly expanding field Nature Structural Biology a terrific job in this timely creation of a compilation of articles that appropriately addresses this issue Briefings in Bioinformatics *Biomedical Index to PHS-supported Research: pt. A. Subject access A-H* ,1992 **Research Grants Index** National Institutes of Health (U.S.). Division of Research Grants, 1969 *Research Awards Index* ,1989 *Biomedical Index to PHS-supported Research* ,1987 **Biomolecular Structure, Conformation, Function, and Evolution** ,1979 **Index of NLM Serial Titles** National Library of Medicine (U.S.), A keyword listing of serial titles currently received by the National Library of Medicine

Membrane Transport and Renal Physiology Harold E. Layton, Alan M. Weinstein, 2002-08-06 The papers in this volume arose out of the workshop Membrane Transport and Renal Physiology which was conducted as part of the IMA 1998 1999 program year Mathematics in Biology The workshop brought together physiologists biophysicists and applied mathematicians who share a common interest in solute and water transport in biological systems especially in the integrated function of the kidney Solute and water transport through cells involves fluxes across two cell membranes usually via specialized proteins that are integral membrane components By means of mathematical representations transport fluxes can be related to transmembrane solute concentrations and electrochemical driving forces At the next level of functional integration these representations can serve as key components for models of renal transcellular transport Ultimately simulations can be developed for transport dependent aspects of overall renal function Workshop topics included solute

fluxes through ion channels cotransporters and metabolically driven ion pumps transport across fiber matrix and capillary membranes coordinated transport by renal epithelia the urine concentrating mechanism and intra renal hemodynamic control This volume will be of interest to biological and mathematical scientists who would like a view of recent mathematical efforts to represent membrane transport and its role in renal function Food biopolymers: Structural, functional and nutraceutical properties Adil Gani, Bilal Ahmad Ashwar, 2021-02-11 Food biopolymers Structural functional and nutraceutical properties provides valuable coverage of all major food biopolymers from plant animal and marine sources The text focuses on the structural characteristics of biopolymers including starch non starch polysaccharides proteins and fats A full section is dedicated to the nutraceutical potential and applications of these polymers Further sections provide comprehensive overviews of the development of functional food products and important data on biopolymer behavior and nutraceutical potential during processing Researchers hoping to gain a basic understanding of the techno functional nutraceutical potential and applications of food biopolymers will find a singular source with this text The first section of this work focuses on the the structure functions bioactivity and applications of starches The next chapters cover non starch polysaccharides Further sections are dedicated to proteins lipids and oils A detailed overview is provided for each followed by application procedures specifics on individual types proteins and enzymes and nutraceutical properties This work can be used as a singular source for all relevant information on food biopolymers and their structural and functional properties including their potential to increase food quality improve shelf life and reduce pollution and waste in the food industry **Research in Computational Molecular Biology** Vineet Bafna, S. Cenk Sahinalp, 2011-03-24 This book constitutes the refereed proceedings of the 15th Annual International Conference on Research in Computational Molecular Biology RECOMB 2011 held in Vancouver Canada in March 2011 The 43 revised full papers were carefully reviewed and selected from 153 submissions The papers cover a wide range of topics including molecular sequence analysis recognition of genes and regulatory elements molecular evolution gene expression biological networks sequencing and genotyping technologies genomics population statistical genetics systems biology imaging computational proteomics molecular structural biology Petascale Computing David A. Bader, 2007-12-22 Although the highly anticipated petascale computers of the near future will perform at an order of magnitude faster than today's quickest supercomputer the scaling up of algorithms and applications for this class of computers remains a tough challenge From scalable algorithm design for massive concurrency to performance analyses and scientific vis

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