

PROTEIN–SOLVENT INTERACTIONS



edited by
Roger B. Gregory

Protein Solvent Interactions

Herfried Griengl



Protein Solvent Interactions:

Protein-Solvent Interactions Roger Gregory, 2024-11-01 This work covers advances in the interactions of proteins with their solvent environment and provides fundamental physical information useful for the application of proteins in biotechnology and industrial processes. It discusses in detail structure dynamic and thermodynamic aspects of protein hydration as well as proteins in aqueous and organic solvents as they relate to protein function stability and folding.

Effect of Solute-solvent Interactions on Protein Stability and Ligand Binding Ikbae Son, 2017 *Computational and Experimental Characterization of Proteins With Respect to Protein-Solvent Interactions* Sven Matthias Amrhein, 2016

Non-covalent Interactions In Proteins Andrey Karshikoff, 2006-11-23 Although textbooks on the physics of condensed matter consider non covalent interactions in detail their application for analysis of protein properties is often poorly presented or omitted. On the other hand books on biochemistry molecular modeling or molecular simulation introduce these interactions in the context of the corresponding topic which sometimes results in superficial explanations of their nature. This book succeeds in uniting comprehensive considerations of non covalent interactions with the specificity of their application in protein sciences. The ideal aid for students of physics or chemistry with interests in biology and biophysics the book can also be useful for students of biology biochemistry or biomedicine who want to extend their knowledge of how protein properties are described at the molecular level.

Enzymes in Nonaqueous Solvents Evgeny N. Vulfson, 2008-02-05 Enzymatic catalysis has gained considerable attention in recent years as an efficient tool in the preparation of natural products pharmaceuticals fine chemicals and food ingredients. The high selectivity and mild reaction conditions associated with enzymatic transformations have made this approach an attractive alternative in the synthesis of complex bioactive compounds which are often difficult to obtain by standard chemical routes. However the majority of organic compounds are not very soluble in water which was traditionally perceived as the only suitable reaction medium for the application of biocatalysts. The realization that most enzymes can function perfectly well under nearly anhydrous conditions and in addition display a number of useful properties e.g. highly enhanced stability and different selectivity has dramatically widened the scope of their application to the organic synthesis. Another great attraction of using organic solvents rather than water as a reaction solvent is the ability to perform synthetic transformations with relatively inexpensive hydrolytic enzymes. It is worth reminding the reader that in vivo the synthetic and hydrolytic pathways are catalyzed by different enzymes. However elimination of water from the reaction mixture enables the reversal of hydrolytic enzymes and thus avoids the use of the expensive cofactors or activated substrates that are required for their synthetic counterparts.

Protein-solvent Interactions and Classical Density Functional Theory Eric A. Mills, 2015 *Intrinsically Disordered Proteins*, 2018-11-21 *Intrinsically Disordered Proteins* Volume 611 the latest release in the *Methods in Enzymology* series highlights new advances in the field with this new volume presenting interesting chapters on topics of interest including the Characterization of Structure Function relationships in the

intrinsically disordered protein complexin Distances distance distributions and ensembles of IDPs from single molecule FRET Biophysical characterization of disordered protein liquid phases The Use of Mass Spectrometry to Examine IDPs Unique Insights and Caveats Fluorescence Depolarization Kinetics to Study Conformational Preference Structural Plasticity and Membrane Binding of Intrinsically Disordered Proteins Characterizing the Function of Intrinsically Disordered Proteins in the Circadian Clock and more Breadth of experimental approaches and systems that will be covered The expertise of the contributors writing the articles

Biological Fluid-Surface Interactions in Detection and Medical Devices Michael Thompson, Christophe Blaszykowski, Sonia Sheikh, Cesar Rodriguez-Emmenegger, Andres de los Santos Pereira, 2017 This book examines the interactions between implants and biological fluids that cause fouling in biosensors and the serious issue of thrombus formation suitable for professional researchers in academia and industry and postgraduate students

Introduction to Proteins Amit Kessel, Nir Ben-Tal, 2018-03-22 Introduction to Proteins provides a comprehensive and state of the art introduction to the structure function and motion of proteins for students faculty and researchers at all levels The book covers proteins and enzymes across a wide range of contexts and applications including medical disorders drugs toxins chemical warfare and animal behavior Each chapter includes a Summary Exercises and References New features in the thoroughly updated second edition include A brand new chapter on enzymatic catalysis describing enzyme biochemistry classification kinetics thermodynamics mechanisms and applications in medicine and other industries These are accompanied by multiple animations of biochemical reactions and mechanisms accessible via embedded QR codes which can be viewed by smartphones An in depth discussion of G protein coupled receptors GPCRs A wider scale description of biochemical and biophysical methods for studying proteins including fully accessible internet based resources such as databases and algorithms Animations of protein dynamics and conformational changes accessible via embedded QR codes Additional features Extensive discussion of the energetics of protein folding stability and interactions A comprehensive view of membrane proteins with emphasis on structure function relationship Coverage of intrinsically unstructured proteins providing a complete realistic view of the proteome and its underlying functions Exploration of industrial applications of protein engineering and rational drug design Each chapter includes a Summary Exercises and References Approximately 300 color images Downloadable solutions manual available at www.crcpress.com For more information including all presentations tables animations and exercises as well as a complete teaching course on proteins structure and function please visit the author's website Praise for the first edition This book captures in a very accessible way a growing body of literature on the structure function and motion of proteins This is a superb publication that would be very useful to undergraduates graduate students postdoctoral researchers and instructors involved in structural biology or biophysics courses or in research on protein structure function relationships David Sheehan ChemBioChem 2011 Introduction to Proteins is an excellent state of the art choice for students faculty or researchers needing a monograph on protein structure

This is an immensely informative thoroughly researched up to date text with broad coverage and remarkable depth

Introduction to Proteins would provide an excellent basis for an upper level or graduate course on protein structure and a valuable addition to the libraries of professionals interested in this centrally important field

Eric Martz Biochemistry and Molecular Biology Education 2012

Biocatalysis Herfried Griengl, 2013-12-01 The book contains in its first part reviews on modelling of enzyme properties in organic solvents lipase catalysed synthesis of carboxylic amides chemoenzymatic synthesis of lipidated peptides and chemoenzymatic transformations in nucleoside chemistry In the second part contributions on recent developments in biocatalysis are given lipase and esterase catalysed resolutions investigations on regio and stereoselective biocatalytic acylations in steroid side chains and of substrate and stereospecificity of Penicillin G amidases deracemisation for amino acid synthesis biocatalytic hydrolysis of nitriles enzymatic and microbial hydroxylation of dienes and alpha methyl esters enantioselective sulfoxidations by peroxidases

Biomolecules in Organic Solvents Armando Gomez-Puyou, 2024-12-11 Biomolecules and Organic Solvents discusses the behavior of enzymes and multi enzyme complexes in organic solvents in addition to the problem of water protein interactions and the characteristics of water at interphases It attempts to bridge the gap between the all water and the organic solvents systems from the point of view of enzyme structure and function The mechanism of action of enzymes dispersed in anhydrous organic solvents and the biotechnological perspectives of the field are evaluated and new information regarding the function and characteristics of complex multi enzymatic systems and whole cells in organic solvents are examined New developments regarding the nature of the water pool and interphases of reverse micelles and their enzyme kinetics are also explored The characteristics and properties of enzymes trapped in reverse micelles are discussed throughout the book Biomolecules in Organic Solvents is essential reading for biochemists molecular biologists and others working in related fields

Neutron Scattering in Biology Jörg Fitter, Thomas Gutberlet, John Katsaras, 2006-05-01 The advent of new neutron facilities and the improvement of existing sources and instruments world wide supply the biological community with many new opportunities in the areas of structural biology and biological physics The present volume offers a clear description of the various neutron scattering techniques currently being used to answer biologically relevant questions Their utility is illustrated through examples by some of the leading researchers in the field of neutron scattering This volume will be a reference for researchers and a step by step guide for young scientists entering the field and the advanced graduate student

Edible Oil Structuring Ashok R Patel, 2017-09-15 Driven both by real industrial needs and curiosity for fundamental research edible oil structuring has emerged as a subject of growing interest with applications in real food systems With contributions from leading research groups around the world this book provides a comprehensive and concise overview of the field with special emphasis on the updates from the last 5 years New insights into the mechanism of gelation in mono and multicomponent gels are discussed for several categories of previously known structuring agents along with the potential food applications of some of these

systems In addition use of alternative methods to explore structuring properties of hydrophilic biopolymers are presented with illustrative examples Some new concepts such as bio based synthesis of supergelators foamed oleogels and use of innovative dispersion techniques give a broader picture of the current research in edible oil structuring This book will be of interest to students academics and scientists involved in the research of edible oil structuring It will be an important reference as it provides current information on the state of the art of the field

Protein Structure Determination

Clarence H. Suelter, 2009-09-25 Presents methods for determining the secondary and tertiary structure of proteins The issues covered here involve theoretical empirical approaches for predicting protein structure a review using protein ligand interactions to study surface properties of proteins use of fluorescence techniques to study structure and dynamics of proteins and limited proteolysis with monoclonal antibodies to understand how specific structural features confer biological function

Antibody Drug Discovery Clive R. Wood, 2012 Monoclonal antibodies have become important treatments for cancer inflammation and a wide range of other diseases representing an increasing share of the most successful pharmaceutical markets The technologies to discover these drugs have been developed by select centers of excellence in industry and academia and are continually being fine tuned in the race to identify the best antibody based drug candidates and accelerate their paths to patients The objective of this volume is to provide a series of guides to those evaluating and preparing to enter particular areas within the field and to offer specialized perspectives to established researchers The chapters set into context the significance of key developments and important considerations for selecting different approaches such as antibody humanization isotype selection lead candidate selection criteria and protein production All contributors to this work are experts in their fields and many have played pivotal roles in the creation of these technologies

Comprehensive Biotechnology, 2019-07-17 Comprehensive Biotechnology Third Edition Six Volume Set unifies in a single source a huge amount of information in this growing field The book covers scientific fundamentals along with engineering considerations and applications in industry agriculture medicine the environment and socio economics including the related government regulatory overviews This new edition builds on the solid basis provided by previous editions incorporating all recent advances in the field since the second edition was published in 2011 Offers researchers a one stop shop for information on the subject of biotechnology Provides in depth treatment of relevant topics from recognized authorities including the contributions of a Nobel laureate Presents the perspective of researchers in different fields such as biochemistry agriculture engineering biomedicine and environmental science

EXTREMOPHILES - Volume II

Charles Gerday , Nicolas Glansdorff, 2009-11-05 Extremophiles is a component of Encyclopedia of Biological Physiological and Health Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The extremophiles represent some of the most fascinating organisms on Earth for the simple reason that they inhabit extreme environments characterized by physical and or chemical properties which render them totally inhospitable

for most of the other organisms The work has been sub divided into 6 main topics related to the above mentioned environmental conditions These topics consist of a general introduction and of several more specialized chapters that have been written by scientists prominent in the field The chapters cover the description of the biotopes and inhabiting species their specific characteristics as well as what we know about the molecular mechanisms which constitute the fundamentals of the resistance and adaptation of extremophiles to extreme conditions The theme Extremophiles is headed by two chapters introducing the subject for non specialists in the field one covering the basic concepts and the other one giving an overview of the biotopes These three volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Thermodynamics of Solutions Eli Ruckenstein, Ivan L. Shulgin, 2009-06-17 This book consists of a number of papers regarding the thermodynamics and structure of multicomponent systems that we have published during the last decade Even though they involve different topics and different systems they have something in common which can be considered as the signature of the present book First these papers are concerned with difficult or very nonideal systems i e systems with very strong interactions e g hydrogen bonding between components or systems with large differences in the partial molar volumes of the components e g the aqueous solutions of proteins or systems that are far from normal conditions e g critical or near critical mixtures Second the conventional thermodynamic methods are not sufficient for the accurate treatment of these mixtures Last but not least these systems are of interest for the pharmaceutical biomedical and related industries In order to meet the thermodynamic challenges involved in these complex mixtures we employed a variety of traditional methods but also new methods such as the fluctuation theory of Kirkwood and Buff and ab initio quantum mechanical techniques The Kirkwood Buff KB theory is a rigorous formalism which is free of any of the approximations usually used in the thermodynamic treatment of multicomponent systems This theory appears to be very fruitful when applied to the above mentioned difficult systems

Future Proteins Brijesh K Tiwari, Laura E Healy, 2023-06-23 Future Proteins Sources Processing Applications and the Bioeconomy presents sources of alternative proteins and the novel processing technologies associated with these new proteins including their vast food and non food applications and their contributions to the circular economy that ties them together Broken into three sections chapters focus on alternative proteins including cereals legumes and pulses fungi seafoods insects and others before assessing novel production technologies and alternative protein applications Through the use of content features specifically definitions case studies recent developments data and methods this reference assists readers in understanding how to apply current knowledge and techniques to their research This book is intended for any stakeholders involved in the alternative protein industry as it provides a clear and comprehensive review of the industry It will be of interest to food scientists technologists food industry personnel academics and graduate students researching this and related topics Discusses the various industrial applications of the proposed proteins from powdered algal for the

nutraceuticals market to insect pastas and bacterial protein flour Provides a comprehensive overview of recent advances on the identification of potentially important compounds in these alternative proteins Outlines advances in proteins characterization processing and purification techniques Focuses on biologically active proteins and their beneficial impact on humans Addresses implications for legislation that forward novel foods

Thermodynamics of Phase Equilibria in Food Engineering Camila Gambini Pereira, 2018-10-17 Thermodynamics of Phase Equilibria in Food Engineering is the definitive book on thermodynamics of equilibrium applied to food engineering Food is a complex matrix consisting of different groups of compounds divided into macronutrients lipids carbohydrates and proteins and micronutrients vitamins minerals and phytochemicals The quality characteristics of food products associated with the sensorial physical and microbiological attributes are directly related to the thermodynamic properties of specific compounds and complexes that are formed during processing or by the action of diverse interventions such as the environment biochemical reactions and others In addition in obtaining bioactive substances using separation processes the knowledge of phase equilibria of food systems is essential to provide an efficient separation with a low cost in the process and high selectivity in the recovery of the desired component This book combines theory and application of phase equilibria data of systems containing food compounds to help food engineers and researchers to solve complex problems found in food processing It provides support to researchers from academia and industry to better understand the behavior of food materials in the face of processing effects and to develop ways to improve the quality of the food products Presents the fundamentals of phase equilibria in the food industry Describes both classic and advanced models including cubic equations of state and activity coefficient Encompasses distillation solid liquid extraction liquid liquid extraction adsorption crystallization and supercritical fluid extraction Explores equilibrium in advanced systems including colloidal electrolyte and protein systems

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