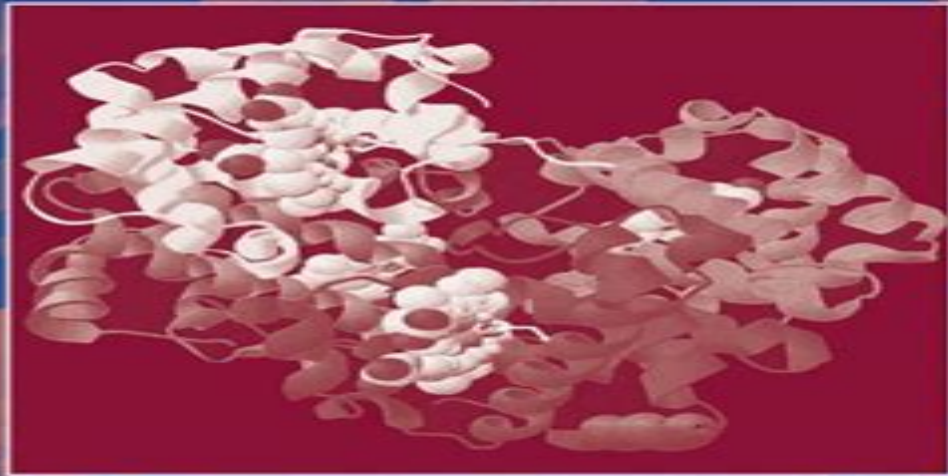


Fundamentals of Protein Structure and Function



Engelbert Buxbaum



Springer

Fundamentals Of Protein Structure And Function

Terry C. Jones



Fundamentals Of Protein Structure And Function:

Fundamentals of Protein Structure and Function Engelbert Buxbaum, 2015 This book serves as an introduction to protein structure and function Starting with their makeup from simple building blocks called amino acids the 3 dimensional structure of proteins is explained This leads to a discussion of how misfolding of proteins causes diseases like cancer various encephalopathies or diabetes Enzymology and modern concepts of enzyme kinetics are then introduced taking into account the physiological pharmacological and medical significance of this often neglected topic This is followed by thorough coverage of h moglobin and myoglobin immunoproteins motor proteins and movement cell cell interactions molecular chaperones and chaperonins transport of proteins to various cell compartments and solute transport across biological membranes Proteins in the laboratory are also covered including a detailed description of the purification and determination of proteins as well as their characterisation for size and shape structure and molecular interactions The book emphasises the link between protein structure physiological function and medical significance This book can be used for graduate and advanced undergraduate classes covering protein structure and function and as an introductory text for researchers in protein biochemistry molecular and cell biology chemistry biophysics biomedicine and related courses About the author Dr Buxbaum is a biochemist with an interest in enzymology and protein science He has been working on the biochemistry of membrane transport proteins for nearly thirty years and has taught courses in biochemistry and biomedicine at several universities

Fundamentals of Protein Structure and Function Engelbert Buxbaum, 2008-11-01 The textbook is clearly written and is suitable for advanced students e g during their master and PhD course time It is very suited also for postdocs and young scientists as a textbook if they change fields in their research The textbook represents a thorough and detailed description of the topics in each of the chapters As the book selects very important topics of present fundamental research and relevant in medical biochemistry it can supplement any of the text books in biochemistry and basic medicine already on the market The textbook is clearly written and is suitable for advanced students e g during their master and PhD course time It is very suited also for postdocs and young scientists as a textbook if they change fields in their research The textbook represents a thorough and detailed description of the topics in each of the chapters As the book selects very important topics of present fundamental research and relevant in medical biochemistry it can supplement any of the text books in biochemistry and basic medicine already on the market

Protein Structure and Function Gregory A. Petsko, Dagmar Ringe, 2004 Each title in the Primers in Biology series is constructed on a modular principle that is intended to make them easy to teach from to learn from and to use for reference

Biochemistry John T. Tansey, 2019-04-02 Biochemistry An Integrative Approach is addressed to premed biochemistry and life science majors taking a one semester biochemistry course This version includes the first 12 chapters and should only be used for one semester biochemistry courses Biochemistry addresses the diverse needs of premed biochemistry and life science majors by presenting relevant material while still

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Fundamentals of Recombinant Protein Production, Purification and Characterization Deepti Yadav, Abhishek Guldhe, Tukayi Kudanga, 2024-09-10 Fundamentals of Recombinant Protein Production Purification and Characterization is organized into nine chapters in a logical fashion that cover an introduction to recombinant proteins and expression in different host expression systems extraction purification and analysis of proteins This important reference features protocols along with the advantages and disadvantage of each expression hosts and characterization technique presented in tabular format and offers detailed coverage of all aspects of protein production and processing upstream and downstream processing in one place Finally the book ends with different characterization techniques Production of recombinant proteins for biotechnological and therapeutic applications at a large scale is an essential need of mankind With the huge application potential of therapeutic and industrial proteins there has been increasing demand for effective and efficient bioprocessing strategies Recent progress around recombinant DNA technologies and bioprocessing strategies has paved the way for efficient production of recombinant proteins Important factors such as insolubility and cost of production need to be considered for large scale production of these recombinant proteins Includes step by step reproducible protocols while also providing updated information on the rationale and latest developments in expression systems Can also be used as a handbook for protein expression and purification as expression systems and chromatographic methods are explained in detail Consists of notes on troubleshooting from the eminent researchers in the field Provides comprehensive information on protein production purification and characterization in a single volume Describes different purification methods for comparatively difficult to obtain proteins Brings the topics of recombinant protein expression purification and characterization together thereby making it the first resource on how to solve problems with respect to upstream and downstream processing of heterologous proteins

Fundamentals of Molecular Bioengineering Luisa Di Paola, 2024-06-03 This textbook covers the scientific basics of molecular bioengineering a new field where technology meets biology and chemistry and the fundamental knowledge required for students to understand molecular mechanisms beyond biological phenomena The textbook focuses on the role of proteins in biomolecular machinery and it is divided into 2 parts Part I covers the molecular thermodynamics of biological systems and Part II discusses the computational aspects behind protein structure prediction and molecular dynamics In the first part of the textbook students will find comprehensive explanations of thermodynamics and statistical mechanics which are the basis to understand how molecular properties translate into macroscopic Part I also offers an introduction to proteins and concepts like intermolecular forces volumetric

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Fundamentals of Protein NMR Spectroscopy Gordon S. Rule, T. Kevin Hitchens, 2005-10-28 NMR spectroscopy has proven to be a powerful technique to study the structure and dynamics of biological macromolecules Fundamentals of Protein NMR Spectroscopy is a comprehensive textbook that guides the reader from a basic understanding of the phenomenological properties of magnetic resonance to the application and interpretation of modern multi dimensional NMR experiments on ^{15}N ^{13}C labeled proteins Beginning with elementary quantum mechanics a set of practical rules is presented and used to describe many commonly employed multi dimensional multi nuclear NMR pulse sequences A modular analysis of NMR pulse sequence building blocks also provides a basis for understanding and developing novel pulse programs This text not only covers topics from chemical shift assignment to protein structure refinement as well as the analysis of protein dynamics and chemical kinetics but also provides a practical guide to many aspects of modern spectrometer hardware sample preparation experimental set up and data processing End of chapter exercises are included to emphasize important concepts Fundamentals of Protein NMR Spectroscopy not only offer students a systematic in depth understanding of modern NMR spectroscopy and its application to biomolecular systems but will also be a useful reference for the experienced investigator

Biochemistry Donald Voet, Judith G. Voet, 2010-11-16 The Gold Standard in Biochemistry text books Biochemistry 4e is a modern classic that has been thoroughly revised Don and Judy Voet explain biochemical concepts while offering a unified presentation of life and its variation through evolution Incorporates both classical and current research to illustrate the historical source of much of our biochemical knowledge

Fundamentals of Protein Biotechnology Stein, 2017-10-19 Fills a gap between the existing studies of proteins which tend to be highly technical and geared toward the practicing protein chemist and biochemistry textbooks which focus on general principles Scientists cover a dozen topics by presenting fundamental principles an overview and the practice

Labs on Chip Eugenio Iannone, 2018-09-03 Labs on Chip Principles Design and Technology provides a complete reference for the complex field of labs on chip in biotechnology Merging three main areas fluid dynamics monolithic micro and nanotechnology and out of

equilibrium biochemistry this text integrates coverage of technology issues with strong theoretical explanations of design techniques Analyzing each subject from basic principles to relevant applications this book Describes the biochemical elements required to work on labs on chip Discusses fabrication microfluidic and electronic and optical detection techniques Addresses planar technologies polymer microfabrication and process scalability to huge volumes Presents a global view of current lab on chip research and development Devotes an entire chapter to labs on chip for genetics Summarizing in one source the different technical competencies required Labs on Chip Principles Design and Technology offers valuable guidance for the lab on chip design decision making process while exploring essential elements of labs on chip useful both to the professional who wants to approach a new field and to the specialist who wants to gain a broader perspective

Concepts and Techniques in OMICS and System Biology Asmat Farooq,Sajad Majeed Zargar,Parvaze Ahmad Sofi,Jebi Sudan,Uneeb Urwat,Khursheed Hussain,2024-08-13 *Concepts and Techniques in OMICS and Systems Biology* provides a concise and lucid account on the technical aspects of omics system biology and their application in fields of different life science With a strong focus on the fundamental principles understanding of metabolomics ionomics and system biology the book also gives an updated account on technical aspects of omics and system biology Since both omics and systems biology fields are fast advancing filed of biological sciences its significance and applications need to be understood from the baseline In 10 chapters *Concepts and Techniques in OMICS and Systems Biology* introduces the reader to both Proteomics Metabolomics and Ionomics and System Biology the technical applications describes both the software in for proteomics as metabolomic enumeration and preludes Omics technologies and their applications The chapters are designed in a well defined chronology such that readers will understand the concepts and techniques involved in omics and system biology This compilation will be ideal reading material for students researchers and people working in the industries related to biological sciences Provides an in depth explanation of fundamental principles regarding the understanding of metabolomics ionomics and system biology Gives updated account on technical aspects of omics and system biology Includes unique content in its theoretical background technical approaches and advancements made in omics and systems biology 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 **Therapeutics and Human Physiology** Elsie Gaskell,Chris

Rostron,2013-02-14 The Integrated Foundations of Pharmacy series is for those at the start of their journey to become a pharmacist It helps students understand how a drug molecule is made and then turned into a medicine the role they will have when dispensing and how the medicine works in the body Most importantly it shows how all of these aspects come together

Invitation to Protein Sequence Analysis Through Probability and Information Daniel J. Graham,2019-02-06 This book explores the remarkable information correspondences and probability structures of proteins Correspondences are pervasive in biochemistry and bioinformatics proteins share homologies folding patterns and mechanisms Probability structures are just as paramount folded state graphics reflect Angstrom scale maps of electron density The author explores protein sequences primary structures both individually and in sets systems with the help of probability and information tools This perspective will enhance the reader s knowledge of how an important class of molecules is designed and put to task in natural systems and how we can approach class members in hands on ways **Biochemistry, International Adaptation**

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Lamsal,2024-06-22 Functionality of Food Proteins Mechanisms Modifications Methods of Assessment and Applications provides researchers and users of plant based proteins with the latest developments on their functionality at the molecular and ingredient level and in food applications The book discusses the biological chemical and physical principles behind the techno functional and nutritional properties of proteins existing methods of functionality assessment and protein modification for functional enhancement With market demand for protein ingredients several lesser known sources are being utilized to develop new protein ingredients and products with some intended to replace partially or wholly traditional proteins such as egg milk meat soy and vital gluten Depending on the source and processing into ingredients the ability of these proteins to

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Voet's Principles of Biochemistry Donald Voet,Charlotte W. Pratt,Judith G. Voet,2018

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Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics - E-Book Carl A. Burtis,David E. Bruns,2014-02-26 A condensed easier to understand student version of the acclaimed Tietz Textbook of Clinical Chemistry and Molecular Diagnostics Tietz Fundamentals of Clinical Chemistry and Molecular Diagnostics 7th Edition uses a laboratory perspective in providing the clinical chemistry fundamentals you need to work in a real world clinical lab Coverage ranges from laboratory principles to analytical techniques and instrumentation analytes pathophysiology and more New content keeps you current with the latest developments in molecular diagnostics From highly respected clinical chemistry experts Carl Burtis and David Bruns this textbook shows how to select and perform diagnostic lab tests and accurately evaluate results Authoritative respected author team consists of two well known experts in the clinical chemistry world Coverage of analytical techniques and instrumentation includes optical techniques electrochemistry electrophoresis chromatography mass spectrometry enzymology immunochemical techniques microchips automation and point of care testing Learning objectives begin each chapter providing measurable outcomes to achieve after completing the material Key words are listed and defined at the

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BIOINFORMATICS, FIFTH EDITION RASTOGI, S.C., RASTOGI, PARAG, MENDIRATTA, NAMITA, 2022-04-05

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