

Advances in Experimental Medicine and Biology 827

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Advance in Structural Bioinformatics



 Springer

Advance In Structural Bioinformatics Advances In Experimental Medicine And Biology

Khosrow-Pour, D.B.A., Mehdi



Advance In Structural Bioinformatics Advances In Experimental Medicine And Biology:

Advance in Structural Bioinformatics Dongqing Wei, Qin Xu, Tangzhen Zhao, Hao Dai, 2014-11-11 This text examines in detail mathematical and physical modeling computational methods and systems for obtaining and analyzing biological structures using pioneering research cases as examples As such it emphasizes programming and problem solving skills It provides information on structure bioinformatics at various levels with individual chapters covering introductory to advanced aspects from fundamental methods and guidelines on acquiring and analyzing genomics and proteomics sequences the structures of protein DNA and RNA to the basics of physical simulations and methods for conformation searches This book will be of immense value to researchers and students in the fields of bioinformatics computational biology and chemistry Dr Dongqing Wei is a Professor at the Department of Bioinformatics and Biostatistics College of Life Science and Biotechnology Shanghai Jiaotong University Shanghai China His research interest is in the general area of structural bioinformatics

Advanced Methods in Structural Biology Ângela Sousa, Luis Passarinha, 2023-04-24 This volume explores the latest integrated bioprocesses and technologies used to study the production of the target recombinant protein of therapeutic or diagnostic interest its isolation purification and stabilization and the bio interaction and structural analyses The chapters in this book are organized into four parts Part One covers production methods of soluble and membrane proteins in prokaryotic and eukaryotic expression systems such as *Lactococcus lactis* and *Escherichia coli* Part Two describes traditional and novel approaches for recombinant protein purification and stabilization and buffers and additives Part Three discusses automated methods in structural biology based on in silico approaches and Part Four provides examples of advanced protein investigation methodologies to assess structural analysis such as high throughput protein crystallization and time resolved serial crystallography Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Cutting edge and comprehensive Advanced Methods in Structural Biology is a valuable resource to those in academia i e graduate students and postdoctoral researchers and researchers in the pharmaceutical industry who wish to learn more about this developing field Chapter 5 is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) *Advanced*

Methodologies and Technologies in Medicine and Healthcare Khosrow-Pour, D.B.A., Mehdi, 2018-10-05 Advancements in medical and healthcare technologies pave the way to improving treatments and diagnoses while also streamlining processes to ensure the highest quality care is given to patients In the last few decades revolutionary technology has radically progressed the healthcare industry by increasing life expectancy and reducing human error Advanced Methodologies and Technologies in Medicine and Healthcare provides emerging research on bioinformatics medical ethics and clinical science in modern applications and settings While highlighting the challenges medical practitioners and healthcare professionals face

when treating patients and striving to optimize their processes the book shows how revolutionary technologies and methods are vastly improving how healthcare is implemented globally This book is an important resource for medical researchers healthcare administrators doctors nurses biomedical engineers and students looking for comprehensive research on the advancements in healthcare technologies *Computational Genomics and Structural Bioinformatics in Microbial Science* Javid Ahmad Parray,Niraj Singh,Wen-Jun Li,2025-02-24 *Computational Genomics and Structural Bioinformatics in Microbial Science* Microbial Genomics Volume 2 covers different aspects of microbial genomics metagenomics and functional studies of microbes through informative illustrations of current trends in computational tools and bioinformatics approach in environmental microbiology and clinical diagnosis This book aims to provide readers with an overview of the microbial genome computational genomics and structural bioinformatics in microbial science as well as the most recent developments in these fields This book covers a range of topics including the challenges and opportunities of computational epigenomics bioinformatics tools for assessing metagenomic data as well as computed comparative genomics and computational phenotyping of microorganisms relevant to agriculture Microbial Genomics Host Adaptation virulence and Evolution is a valuable resource for faculty members researchers and undergraduate and postgraduate students at universities medical research labs that are interested in microbial science specifically related to the microbial genome computing genomics and bioinformatics Provides informative illustrations of current trends in computational tools and bioinformatics approach Presents bioinformatics of next generation sequencing in clinical microbiology diagnosis Discusses structural bioinformatics and its applications *Encyclopedia of Biomedical Engineering* ,2018-09-01 *Encyclopedia of Biomedical Engineering* Three Volume Set is a unique source for rapidly evolving updates on topics that are at the interface of the biological sciences and engineering Biomaterials biomedical devices and techniques play a significant role in improving the quality of health care in the developed world The book covers an extensive range of topics related to biomedical engineering including biomaterials sensors medical devices imaging modalities and imaging processing In addition applications of biomedical engineering advances in cardiology drug delivery gene therapy orthopedics ophthalmology sensing and tissue engineering are explored This important reference work serves many groups working at the interface of the biological sciences and engineering including engineering students biological science students clinicians and industrial researchers Provides students with a concise description of the technologies at the interface of the biological sciences and engineering Covers all aspects of biomedical engineering also incorporating perspectives from experts working within the domains of biomedicine medical engineering biology chemistry physics electrical engineering and more Contains reputable multidisciplinary content from domain experts Presents a one stop resource for access to information written by world leading scholars in the field

Advanced Technologies for Protein Complex Production and Characterization M. Cristina Vega,2016-05-10 This book presents advanced expression technologies for the production of protein complexes Since complexes lie at the heart of

modern biology the expression purification and characterization of large amounts of high quality protein complexes is crucial for the fields of biomedicine biotechnology and structural biology From co expression in E coli yeast mammalian and insect cells to complex reconstitution from individual subunits this book offers useful insights and guidance for successful protein expressionists Across several sections readers will discover existing opportunities for the production of protein complexes in bacterial systems including membrane proteins and cell free co expression methylotrophic and non methylotrophic yeasts protozoa Leishmania terantolae and Dictyostelium discoideum baculovirus infected insect cells mammalian cells plants and algae Complex reconstitution from individually purified subunits or subcomplexes is discussed as a complementary strategy A last section introduces briefly some of the biophysical and structural characterization techniques for macromolecular complexes using state of the art solution scattering and nuclear magnetic resonance This work is a guided tour over some of the most powerful and successful protein expression technologies with a focus on co expression and high throughput applications It is addressed to everyone interested in the production and characterization of macromolecular complexes from university students who want an accessible description of the major co expression systems to researchers in biomedicine and the life sciences seeking for an up to date survey of available technologies

Small Angle Scattering Part A: Methods for Structural Investigation, 2022-11-19 Small Angle Scattering Part A Methods for Structural Investigation Volume 675 in the Methods in Enzymology series highlights new advances in the field with new chapters in this updated release including SAXS foundations and metrics Contrast variation sample preparation protocols experimental procedures and rudimentary analysis Molecular deuteration for neutron scattering Planning Executing and Assessing the Feasibility of SANS Contrast Variation Experiments Technical considerations for small angle neutron scattering from biological macromolecules and Advanced sample environments and capabilities at our synchrotron X ray beamline with example applications Additional sections in the book cover SEC SAXS MALS data acquisition and processing pipeline at SIBYLS SEC SAXS pros and cons experimental set up examples and software developments Radiation damage and sample economy for stopped flow methods in the time regime of millisecond and above Stopped flow time resolved SAXS Insights on Temp jump time resolved SAXS and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Enzymology series Includes the latest information on Small Angle Scattering Methods for Structural Investigation

Advanced Biophysical Techniques in Biosciences Nirmal Mazumder, Rajib Biswas, Guan-Yu Zhuo, 2025-09-26 This book presents an overview of advanced biophysical techniques that can be used to understand the physicochemical properties of biomolecules and biomaterials and expand their potential for biomedical applications It is split into two parts the first covering advanced biophysical techniques and the second covering bioscience applications Adequate knowledge about the behavior of biomacromolecules is essential for standardizing their applications in various industries These properties are strongly influenced by the composition chain structure e g linear or branch linkage patterns and

molecular weight of the biomolecules This book describes the various internal and external factors that develop the structural and functional properties of biomolecules Further it covers the advanced techniques that can be used to discover and enhance these properties such as scanning electron microscopy SEM Fourier transform infrared FTIR spectroscopy X ray crystallography fluorescence spectroscopy surface plasmon resonance surface enhanced Raman spectroscopy force spectroscopy optical tweezers and more It also covers high performance liquid chromatography for biomolecule detection including sample preparation column selection mobile phase determination and the choice of an appropriate detector for the investigation This book serves as a modern resource on the topic providing an in depth analysis of various important physicochemical properties as well as their wide range of applications including in pharmaceuticals bioimaging sensing cancer therapy food sciences textiles scaffolds drug delivery and tissue engineering Readers are presented with several invasive and non invasive techniques that can be used for the characterization of biomacromolecules along with many types of physical chemical and physicochemical modifications that can be used to enhance their usage

Advanced AI Techniques and Applications in Bioinformatics Loveleen Gaur,Arun Solanki,Samuel Fosso Wamba,Noor Zaman Jhanjhi,2021-10-17 The advanced AI techniques are essential for resolving various problematic aspects emerging in the field of bioinformatics This book covers the recent approaches in artificial intelligence and machine learning methods and their applications in Genome and Gene editing cancer drug discovery classification and the protein folding algorithms among others Deep learning which is widely used in image processing is also applicable in bioinformatics as one of the most popular artificial intelligence approaches The wide range of applications discussed in this book are an indispensable resource for computer scientists engineers biologists mathematicians physicians and medical informaticists Features Focusses on the cross disciplinary relation between computer science and biology and the role of machine learning methods in resolving complex problems in bioinformatics Provides a comprehensive and balanced blend of topics and applications using various advanced algorithms Presents cutting edge research methodologies in the area of AI methods when applied to bioinformatics and innovative solutions Discusses the AI ML techniques their use and their potential for use in common and future bioinformatics applications Includes recent achievements in AI and bioinformatics contributed by a global team of researchers

Biological Small Angle Scattering: Techniques, Strategies and Tips Barnali Chaudhuri,Inés G. Muñoz,Shuo Qian,Volker S. Urban,2017-12-07 This book provides a clear comprehensible and up to date description of how Small Angle Scattering SAS can help structural biology researchers SAS is an efficient technique that offers structural information on how biological macromolecules behave in solution SAS provides distinct and complementary data for integrative structural biology approaches in combination with other widely used probes such as X ray crystallography Nuclear magnetic resonance Mass spectrometry and Cryo electron Microscopy The development of brilliant synchrotron small angle X ray scattering SAXS beam lines has increased the number of researchers interested in solution scattering SAS is especially useful for

studying conformational changes in proteins highly flexible proteins and intrinsically disordered proteins Small angle neutron scattering SANS with neutron contrast variation is ideally suited for studying multi component assemblies as well as membrane proteins that are stabilized in surfactant micelles or vesicles SAS is also used for studying dynamic processes of protein fibrillation in amyloid diseases and pharmaceutical drug delivery The combination with size exclusion chromatography further increases the range of SAS applications The book is written by leading experts in solution SAS methodologies The principles and theoretical background of various SAS techniques are included along with practical aspects that range from sample preparation to data presentation for publication Topics covered include techniques for improving data quality and analysis as well as different scientific applications of SAS With abundant illustrations and practical tips we hope the clear explanations of the principles and the reviews on the latest progresses will serve as a guide through all aspects of biological solution SAS The scope of this book is particularly relevant for structural biology researchers who are new to SAS Advanced users of the technique will find it helpful for exploring the diversity of solution SAS methods and applications Chapter 3 of this book is available open access under a CC BY 4.0 license at link.springer.com

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