

Membrane Protein Structure Determination

Methods and Protocols



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Edited by
Jean-Jacques Lacapère

Membrane Protein Structure Determination Methods And Protocols Methods In Molecular Biology

SA Dillow

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Membrane Protein Structure Determination Methods And Protocols Methods In Molecular Biology:

Membrane Protein Structure Determination Jean-Jacques Lacapère, 2010-08-06 Membrane proteins representing nearly 40% of all proteins are key components of cells involved in many cellular processes yet only a small number of their structures have been determined *Membrane Protein Structure Determination Methods and Protocols* presents many detailed techniques for membrane protein structure determination used today by bringing together contributions from top experts in the field Divided into five convenient sections the book covers various strategies to purify membrane proteins approaches to get three dimensional crystals and solve the structure by x ray diffraction possibilities to gain structural information for a membrane protein using electron microscopy observations recent advances in nuclear magnetic resonance NMR and molecular modelling strategies that can be used either to get membrane protein structures or to move from atomic structure to a dynamic understanding of a molecular functioning mechanism 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 Comprehensive and easy to use *Membrane Protein Structure Determination Methods and Protocols* serves as an ideal reference for scientists seeking to further our knowledge of these vital and versatile proteins as well as our overall understanding of the complicated world of cell biology

Membrane Protein Structure and Function Characterization

Jean-Jacques Lacapere, 2017-08-10 In this present volume different approaches are detailed to produce membrane proteins purify them study their function determine their structure and model them in membrane Since every membrane protein behaves mostly in a unique way fashion knowledge of guidelines and tricks may help to increase chances to express purify and characterize a peculiar membrane protein Production of correctly folded protein remains a challenge Moreover getting a functional and stable protein requires to optimize membrane mimicking environments that can be detergent or artificial membranes In some cases the finding of the correct ligand which will stabilize the desired conformation is needed In other cases stabilization can be obtained using specific antibodies This volume also presents different techniques to analyze the functional status of membrane proteins Written in the highly successful *Methods in Molecular Biology* series format chapters in *Membrane Protein Structure and Function Characterization Methods and Protocols* provide different techniques to analyze the functional and structural status of membrane proteins 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 Authoritative and practical *Membrane Protein Structure and Function Characterization Methods and Protocols* aims to ensure successful results in the further study of this vital field

Biophysics of Membrane Proteins

Vincent L. G. Postis, Adrian Goldman, 2022-02-28 This volume provides recent advances in the field of biophysics of membrane proteins Chapters are divided into several parts detailing biochemistry and functional analysis experimental and theoretical

structural determinations membrane protein dynamics and conformation studies 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 Authoritative and cutting edge Biophysics of Membrane Proteins Methods and Protocols aims to provide comprehensive protocols with notes to help further the understanding of key membrane protein structure and function for students academics and industrial researchers

Membrane Proteins Production for Structural Analysis Isabelle

Mus-Veteau, 2014-06-20 This book updates the latest development in production stabilization and structural analysis techniques of membrane proteins This field has made significant advances since the elucidation of the first 3 D structure of a recombinant G Protein Coupled Receptor GPCR rhodopsin with the structure of several more GPCRs having been solved in the past five years In fact the 2012 Nobel Prize in Chemistry was awarded for groundbreaking discoveries on the inner workings of GPCRs This book is essential reading for all researchers biochemists and crystallographers working with membrane proteins who are interested by the structural characterization of their favorite protein and who wish to follow the expression migration modifications and recycling of a membrane protein

Membrane Protein Protocols Barry S.

Selinsky, 2008-02-03 Knowledge of the three dimensional structure of a protein is absolutely required for the complete understanding of its function The spatial orientation of amino acids in the active site of an enzyme demonstrates how substrate specificity is defined and assists the medicinal chemist in the design of specific tight binding inhibitors The shape and contour of a protein surface hints at its interaction with other proteins and with its environment Structural analysis of multiprotein complexes helps to define the role and interaction of each individual component and can predict the consequences of protein mutation or conditions that promote dissociation and rearrangement of the complex Determining the three dimensional structure of a protein requires milligram quantities of pure material Such quantities are required to refine crystallization conditions for X ray analysis or to overcome the sensitivity limitations of NMR spectroscopy Historically structural determination of proteins was limited to those expressed naturally in large amounts or derived from a tissue or cell source inexpensive enough to warrant the use of large quantities of cells However with the advent of the techniques of modern gene expression many proteins that are constitutively expressed in minute amounts can become accessible to large scale purification and structural analysis

Protein Structure Prediction David Webster, 2008-02-03

The number of protein sequences grows each year yet the number of structures deposited in the Protein Data Bank remains relatively small The importance of protein structure prediction cannot be overemphasized and this volume is a timely addition to the literature in this field Protein Structure Prediction Methods and Protocols is a departure from the normal Methods in Molecular Biology series format By its very nature protein structure prediction demands that there be a greater mix of theoretical and practical aspects than is normally seen in this series This book is aimed at both the novice and the experienced researcher who wish

for detailed information in the field of protein structure prediction a major intention here is to include important information that is needed in the day to day work of a research scientist important information that is not always decipherable in scientific literature Protein Structure Prediction Methods and Protocols covers the topic of protein structure prediction in an eclectic fashion detailing aspects of prediction that range from sequence analysis a starting point for many algorithms to secondary and tertiary methods on into the prediction of docked complexes an essential point in order to fully understand biological function As this volume progresses the authors contribute their expert knowledge of protein structure prediction to many disciplines such as the identification of motifs and domains the comparative modeling of proteins and ab initio approaches to protein loop side chain and protein prediction

Structure and Function of Membrane Proteins

Ingeborg Schmidt-Krey, James C. Gumbart, 2021 This book examines detailed experimental and computational approaches for the analysis of many aspects vital to the understanding of membrane protein structure and function Readers will receive guidance on the selection and use of methods for over expression and purification tools to characterize membrane proteins within different phospholipid bilayers direction on functional studies and approaches to determine the structures of membrane proteins Detailed experimental steps for specific membrane proteins with critical notes allow the protocols to be modified to different systems Written for the highly successful Methods in Molecular Biology series chapters include the kind of practical information and implementation advice that leads to excellent reproducible results Authoritative and up to date Structure and Function Studies of Membrane Proteins serves as an ideal guide for biologists biochemists and biophysicists striving to further understand these essential proteins and their many biological roles

[β-barrel Channel Proteins as Tools in Nanotechnology](#) Marco Fioroni, Tamara Dworeck, Francisco Rodriguez-Ropero, 2013-11-04 barrel outer membrane channel proteins OMP are useful as robust and flexible models or components in nanotechnology Over the last decade biotechnological techniques allowed to expand the natural characteristics of OMPs by modifying their geometry and properties The present book is oriented towards a broad group of readers including graduate students and advanced researchers It gives a general introduction to the field of OMP based nano component development as well as the state of the art of the involved research On the example of the E coli FhuA the transformation of an OMP into a tailored nano channel will be outlined An exhaustive description of the scientific strategy including protein selection analytical methods and in silico tools to support the planning of protein modifications for a targeted application consideration on the production of a custom made OMP and an overview on technological applications including membrane polymersome technology will be provided

Structural Proteomics Raymond J. Owens, 2021-06-05 This updated and expanded volume reflects the current state of the structural protein field with improved and refined protocols that have been applied to particularly challenging proteins Beginning with a section on structural bioinformatics the book continues with sections covering the challenge of producing high quality samples for structural studies particularly mammalian membrane proteins and protein complexes as well as

protocols for structure determination including the use of electrons in structural biology and more Written for the highly successful Methods in Molecular Biology series 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 Authoritative and up to date Structural Proteomics High Throughput Methods Third Edition will aid researchers in expanding our knowledge of this vital and expansive area of protein science Chapter 9 is available open access under a CC BY 4.0 license

Laboratory Methods in Cell Biology: Imaging, 2013-01-03 Cell biology spans among the widest diversity of methods in the biological sciences From physical chemistry to microscopy cells have given up with secrets only when the questions are asked in the right way This new volume of Methods in Cell Biology covers laboratory methods in cell biology and includes methods that are among the most important and elucidating in the discipline such as bioluminescent imaging of gene expressions confocal imaging and electron microscopy of bone Covers the most important laboratory methods in cell biology Chapters written by experts in their fields *Biochemicals and Reagents*,

Heterologous Expression of Membrane Proteins Isabelle Mus-Veteau, 2022-06-30 This detailed volume explores protocols for the production of membrane proteins in a panel of heterologous organisms for structural studies Beginning with techniques using E. coli as a host for the overproduction and purification of membrane proteins the book continues with chapters covering mammalian membrane protein production in yeast insect cells mammalian cells as well as using virus like particles and acellular systems Additionally new detergents and alternatives to detergents allowing membrane protein purification for structural analyses are described The book closes with a chapter exploring the use of microscale thermophoresis MST to evaluate the binding activity of heterologously expressed proteins directly in crude membrane extracts Written for the highly successful Methods in Molecular Biology series 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 Authoritative and up to date Heterologous Expression of Membrane Proteins Methods and Protocols Third Edition serves as an ideal guide for scientists aiming to produce and purify functional recombinant membrane proteins for structural studies Membrane Protein Structure and Dynamics Nagarajan

Vaidehi, Judith Klein-Seetharaman, 2012-09-14 Membrane proteins play key roles in numerous cellular processes in particular mediating cell to cell communication and signaling events that lead to a multitude of biological effects Membrane proteins have also been implicated in many critical diseases such as atherosclerosis hypertension diabetes and cancer In Membrane Protein Structure Predictions Methods Methods and Protocols expert researcher in the field detail the advances in both experimental and computational approaches of the structure dynamics and interactions of membrane proteins dividing the volume into two sections The first section details the procedures used for measurements of structure and dynamics of membrane proteins While the second section contains a survey of the computational methods that have played a critical role

in membrane protein structure prediction as well as in providing atomic level insight into the mechanism of the dynamics of membrane receptors Written in the highly successful Methods in Molecular Biology™ series format the chapters include the kind of detailed description and implementation advice that is crucial for getting optimal results in the laboratory Thorough and intuitive Membrane Protein Structure Prediction Methods and Protocols seeks to aid scientists in the further study of membrane protein structure and function Proteins: Advances in Research and Application: 2011 Edition ,2012-01-09

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Encyclopedia of Bioinformatics and Computational Biology ABC of Bioinformatics Three Volume Set combines elements of computer science information technology mathematics statistics and biotechnology providing the methodology and in silico solutions to mine biological data and processes The book covers Theory Topics and Applications with a special focus on Integrative omics and Systems Biology The theoretical methodological underpinnings of BCB including phylogeny are covered as are more current areas of focus such as translational bioinformatics cheminformatics and environmental informatics Finally Applications provide guidance for commonly asked questions This major reference work spans basic and cutting edge methodologies authored by leaders in the field providing an invaluable resource for students scientists professionals in research institutes and a broad swath of researchers in biotechnology and the biomedical and pharmaceutical industries Brings together information from computer science information technology mathematics statistics and biotechnology Written and reviewed by leading experts in the field providing a unique and authoritative resource Focuses on the main theoretical and methodological concepts before expanding on specific topics and applications Includes interactive images multimedia tools and crosslinking to further resources and databases *Transmembrane β -Barrel Proteins* Raffaele Ieva,2024-03-13

This detailed volume explores experimental strategies and protocols for the expression assembly characterization and exploitation of transmembrane barrel proteins Beginning with methodologies to study their assembly the book continues with protocols for characterizing the landscape of transmembrane barrel protein interactions with other cellular factors dissecting processes of protein transport in bacteria and mitochondria examining structural

characterization determination and prediction and more Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Transmembrane Barrel Proteins Methods and Protocols serves as an ideal guide for researchers seeking to expand our knowledge of these vital membrane spanning proteins

Cryo-Electron Microscopy in Structural Biology Krishnarao Appasani, 2024-10-17 Cryo electron microscopy in combination with tomography has emerged as a new technology for visualizing molecular structures at a resolution beyond even 1 Using this technology has revealed the native molecular details of viruses membranes enzymes ribosomes and cells This comprehensive volume brings together authoritative overviews of these methods from structural and biological perspectives It is a must have for researchers and graduate students as well as those working in industry primarily in the areas of biophysics structural biology crystallography and genomics Key Features Focuses on the applications of cryo EM to structural biology Documents the importance of cryo EM ET approaches in studying the structural determinants of cellular organelle and membrane protein biochemistry Reviews the applications of high resolution structures of viruses Emphasizes structural insights of nuclear and gene machineries Includes a section focused entirely on the applications of cryo EM ET in drug discovery and therapeutic development

Molecular Modeling of Proteins Andreas Kukol, 2015 Molecular Modeling of Proteins Second Edition provides a theoretical background of various methods available and enables non specialists to apply methods to their problems by including updated chapters and new material not covered in the first edition This detailed volume opens by featuring classical and advanced simulation methods as well as methods to set up complex systems such as lipid membranes and membrane proteins and continues with chapters devoted to the simulation and analysis of conformational changes of proteins computational methods for protein structure prediction usage of experimental data in combination with computational techniques as well as protein ligand interactions which are relevant in the drug design process Written for the highly successful Methods in Molecular Biology series chapters include thorough introductions step by step instructions and notes on troubleshooting and avoiding common pitfalls Update to date and authoritative Molecular Modeling of Proteins Second Edition aims to aid researchers in the physical chemical and biosciences interested in utilizing this powerful technology

Biochemistry and Cell Biology, 2006

Structural Genomics and Drug Discovery Wayne F. Anderson, 2014-07-08 Structural Genomics and Drug Discovery Methods and Protocols focuses on high throughput structure determination methods and how they can be applied to lay the groundwork for structure aided drug discovery The methods and protocols that are described can be applied in any laboratory interested in using detailed structural information to advance the initial stages of drug discovery 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 key tips on troubleshooting

and avoiding known pitfalls Authoritative and practical Structural Genomics and Drug Discovery Methods and Protocols seeks to aid scientists in the further study into structural genomics approach as an efficient initial step toward drug discovery and the methods described will be useful to anyone interested in moving in this direction

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