

SUBCELLULAR BIOCHEMISTRY
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Membrane Dynamics and Domains



Edited by
Peter J. Quinn

Membrane Dynamics And Domains Subcellular Biochemistry

J. Robin Harris, Falk Fahrenholz



Membrane Dynamics And Domains Subcellular Biochemistry:

Membrane Dynamics and Domains Peter J. Quinn, 2004-07-02 The fluid mosaic model of membrane structure formulated by Singer and Nicolson in the early 1970s has proven to be a durable concept in terms of the principles governing the organization of the constituent lipids and proteins During the past 30 or so years a great deal of information has accumulated on the composition of various cell membranes and how this is related to the different functions that membranes perform Nevertheless the task of explaining particular functions at the molecular level has been hampered by lack of structural detail at the atomic level The reason for this is primarily the difficulty of crystallizing membrane proteins which require strategies that differ from those used to crystallize soluble proteins The unique exception is bacteriorhodopsin of the purple membrane of *Halobacterium halobium* which is interpolated into a membrane that is neither fluid nor in a mosaic configuration To date only 50 or so membrane proteins have been characterised to atomic resolution by diffraction methods in contrast to the vast data accumulated on soluble proteins Another factor that has been difficult to explain is the reason why the lipid complement of membranes is often extremely complex Many hundreds of different molecular species of lipid can be identified in some membranes Remarkably the particular composition of each membrane appears to be maintained within relatively narrow limits and its identity distinguished from other morphologically distinct membranes

Membrane Dynamics and Domains Peter J. Quinn, 2013-03-12 The fluid mosaic model of membrane structure formulated by Singer and Nicolson in the early 1970s has proven to be a durable concept in terms of the principles governing the organization of the constituent lipids and proteins During the past 30 or so years a great deal of information has accumulated on the composition of various cell membranes and how this is related to the different functions that membranes perform Nevertheless the task of explaining particular functions at the molecular level has been hampered by lack of structural detail at the atomic level The reason for this is primarily the difficulty of crystallizing membrane proteins which require strategies that differ from those used to crystallize soluble proteins The unique exception is bacteriorhodopsin of the purple membrane of *Halobacterium halobium* which is interpolated into a membrane that is neither fluid nor in a mosaic configuration To date only 50 or so membrane proteins have been characterised to atomic resolution by diffraction methods in contrast to the vast data accumulated on soluble proteins Another factor that has been difficult to explain is the reason why the lipid complement of membranes is often extremely complex Many hundreds of different molecular species of lipid can be identified in some membranes Remarkably the particular composition of each membrane appears to be maintained within relatively narrow limits and its identity distinguished from other morphologically distinct membranes

Biophysics of the Cell Surface Roland Glaser, David Gingell, 2013-03-07 It is common practice to publish conference papers in books or monograph series This gives some advantage to those who did not have the opportunity to attend the meetings but it irritates and disappoints others who may have hoped for a set of closely related reviews With this book we have tried to find a compromise It presents a selection

from the topics which have been discussed in a series of international symposia entitled Biophysics of Cell Surface held in 1976 1978 1981 1985 and 1988 in the GDR and subsequently published in the journal STUDIA BIOPHYSICA volumes 56 74 90 110 1271 Nearly all the contributors to this book participated in one or more of the meetings We hope that our choice of topics selected for this book manages to reflect the variety and interest of the broad range of subjects which fall within the scope of membrane biophysics without taking on the randomness of a scientific car boot sale We would like to express our thanks to all colleagues and organisations who helped to realize the conferences and particularly this book financial support for the symposia of 1985 and 1988 was provided by the IUPAB A number of topics reflected in this book resulted in international cooperations supported by various organisations We are especially grateful for the support of UNESCO research project on biophysicS in this respect The European Bureau ROSTE of UNESCO supported the editorial work of this book

Chromatin and Disease Tapas K. Kundu, Dipak Dasgupta, 2007-05-04 It is more evident now than ever before that dynamic organization of human genome into nucleoprotein structure chromatin confers the unique regulatory mechanisms for most of the cellular phenomena which include replication transcription DNA repair recombination and also apoptosis The dynamic nature of the chromatin is regulated by chromatin modifications epigenetic alterations remodeling histone chaperones and functional interactions of different chromatin interacting n histone proteins Dysfunction of this highly interconnected machineries disturb the cellular homeostasis and thereby causes several diseases As we advance in our knowledge of chromatin function and also disease mechanisms in more details their causal relationship is becoming more evident This has lead to the identification of chromatin function as target for new generation therapeutics In the light of these advances it happens to be the right time to explore current insights into various aspect of chromatin and disease connection under one cover Authors who are actively involved in chromatin research and have made several original contributions to develop latest paradigms in the field have written the chapters of this book Significantly the authors repertoire is truly international They come from eight different countries of Asia Europe and America The book has been divided into three different parts Part I introduces the reader to the dynamic nature of chromatin structure and its link to diseases First two chapters in this part deal with the chromatin architecture chromatin dynamics in the cell cycle and molecular mechanism of chromatin remodeling Probes and Tags to Study Biomolecular Function Lawrence W.

Miller, 2008-09-02 The only resource to systematically review current experimental methods this handy reference enables researchers to select the best solution for their experimental problems For each method covered the book provides step by step protocols illustrated by typical research applications After an initial section on probing the lipid bilayer the text moves on to discuss probing proteins including membrane proteins and nucleic acids The first single publication to incorporate chemical markers fluorescent probes and genetic tags allows a well informed comparison of different solutions for the same problem in molecular analytics **Biology of Inositols and Phosphoinositides** A. Lahiri Majumder, B. B.

Biswas,2006-10-03 This volume describes the current status of the biology of inositols and phosphoinositides with an emphasis on the development in the area since the publication of volume 26 in 1996 in this series The progress made in dissecting the genetics structure and evolution of the seminal enzyme for synthesis of inositol in the biological system has driven the understanding of the enzyme forward With the current genomic and proteomic tools in place the new role of inositols inositol phosphates and phosphoinositides in cell signaling or stress response has been explored These advances are described in this volume and are expected to give new insights into the functional implications of inositol compounds across evolutionary diverse species Calcium Signalling and Disease Ernesto Carafoli,Marisa Brini,2007-09-29 Authors highlight several promising discoveries in the field of calcium signaling that provide new information about both genetic and acquired pathologies Their discussions will give you new insights into the underlying causes of congenital and acquired diseases and point the way to new even more promising research and therapies **Membrane Structural Biology** Mary Luckey,2014-02-24 This textbook provides a strong foundation and a clear overview for students of membrane biology and an invaluable synthesis of cutting edge research for working scientists The text retains its clear and engaging style providing a solid background in membrane biochemistry while also incorporating the approaches of biophysics genetics and cell biology to investigations of membrane structure function and biogenesis to provide a unique overview of this fast moving field A wealth of new high resolution structures of membrane proteins are presented including the Na K pump and a receptor G protein complex offering exciting insights into how they function All key tools of current membrane research are described including detergents and model systems bioinformatics protein folding methodology crystallography and diffraction and molecular modeling This comprehensive and up to date text emphasising the correlations between membrane research and human health provides a solid foundation for all those working in this field **Biochemistry, International Adaptation** Donald Voet,Judith G. Voet,2021 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 It incorporates both classical and current research to illustrate the historical source of much of our biochemical knowledge Peroxisredoxin Systems Leopold Flohé,J. Robin Harris,2007-09-04 A volume within the Subcellular Biochemistry series is an appropriate setting for the first multi author book devoted to the new family of antioxidant and cell signalling proteins the peroxiredoxins Within the antioxidant and cell signalling fields even the existence of the peroxiredoxins has yet to be appreciated by many with this book we aim to rectify this situation We have tried to select diverse chapter topics to cover relevant aspects of the subject and to persuade knowledgeable authors to contribute a manuscript As almost inevitable a few authors let us down by failing to respond others could not submit a manuscript in time for personal reasons These unfortunately were two of the pioneers Earl Stadtman and Sue Goo Rhee but we appreciate that they communicated a lot of details that helped us to reconstruct the early phase of peroxiredoxin enzymology We have thus

compiled a book that competently covers the peroxiredoxin field from its beginnings through to currently relevant topics In the introductory Chapter 1 we provide a short historical survey of the subject based upon the early structural and enzymic studies on peroxiredoxins and then lead into some of our current personal interests such as the likely continuing contribution of transmission electron microscopy TEM for the study of high molecular mass peroxiredoxin complexes and the association of peroxiredoxins with other proteins and the targeting of drugs against microbial peroxiredoxins as future therapeutic approaches

GPCR Signalling Complexes – Synthesis, Assembly, Trafficking and Specificity Denis J. Dupré, Terence E. Hébert, Ralf Jockers, 2012-11-19 Main Question G protein coupled receptors are involved in highly efficient and specific activation of signalling pathways How do GPCR signalling complexes get assembled to generate such specificity In order to answer this question we need to understand how receptors and their signalling partners are synthesized folded and quality controlled in order to generate functional proteins Then we need to understand how each partner of the signalling complex is selected to join a complex and what makes this assembly possible GPCRs are known to be able to function as oligomers what drives the assembly into oligomers and what will be the effects of such organization on specificity and efficacy of signal transduction Once the receptor complexes are assembled they need to reach different locations in the cell what drives and controls the trafficking of GPCR signalling complexes Finally defects in synthesis maturation or trafficking can alter functionality of GPCRs signalling complexes how can we manipulate the system to make it function normally again Pharmacological chaperones may just be part of the answer to this question

Optical Microscopy Brian Herman, John J. Lemasters, 2012-12-02 Optical Microscopy Emerging Methods and Applications covers recent technical advances and new approaches to monitoring and altering cell physiology examining membrane cytoarchitecture observing multiple cellular activities and intact organ physiology plus confocal imaging of live cell function lifetime imaging and automated clinical imaging cytometry The book provides the reader with a synopsis of the most recent technical developments in optical microscopy as applied to scientific research Each chapter introduces new methods by describing how these overcome limitations inherent in previous techniques Software hardware and other equipment concerns are covered Additionally the book reviews current applications in order to stimulate future developments in optical microscopy encouraging novel uses and new technical advances Caged compounds fluorescence ratio imaging and CCD video cameras Simultaneous multiple detection and real time fluorescence microscopy Simultaneous DIC and quantitative LLF video imaging Total internal reflectance time resolved and automated fluorescence microscopy Laser scanning confocal microscopy Imaging for calcium measurements membranes glycoproteins living cells and cancer cells

The Eukaryotic Replisome: a Guide to Protein Structure and Function Stuart MacNeill, 2012-08-23 High fidelity chromosomal DNA replication underpins all life on the planet In humans there are clear links between chromosome replication defects and genome instability genetic disease and cancer making a detailed understanding of the molecular mechanisms of genome duplication vital for future advances in

diagnosis and treatment Building on recent exciting advances in protein structure determination the book will take the reader on a guided journey through the intricate molecular machinery of eukaryotic chromosome replication and provide an invaluable source of information ideas and inspiration for all those with an interest in chromosome replication whether from a basic science translational biology and medical research perspective

Creatine and Creatine Kinase in Health and Disease Gajja S. Salomons, Markus Wyss, 2007-10-16 Although creatine was discovered already in the 1830s it is only in recent years that its crucial role for human health and general well being has been increasingly realized and appreciated A number of beneficial health effects have been ascribed to oral creatine supplementation such as neuroprotective ergogenic anti diabetic anti inflammatory antiviral or antitumor effects Creatine may even improve memory and intelligence In the present book emphasis is placed on the intricate interplay between creatine and creatine kinase function on one hand and proper brain function neurodegenerative disease and or neuroprotection on the other hand The book also elaborates on the recently identified inborn errors of creatine biosynthesis and transport the so called cerebral creatine deficiency syndromes The clinical hallmarks of these disorders are mental retardation epilepsy autistic like behaviour and speech and language delay In addition the muscle growth and strength promoting effects the pharmacokinetics and the safety of oral creatine supplementation are discussed Finally the present book outlines the emerging systems biology approaches for understanding the pleiotropic effects of creatine and creatine kinase and hypothesizes on the most promising and influential future avenues of research towards creatine based nutritional strategies for the prevention of neurological disease and for improving the quality of life in general

ARF Family GTPases Richard A. Kahn, 2006-04-11 For the first time experts in the area of signalling research with a focus on the ARF family have contributed to the production of a title devoted to ARF biology A comprehensive phylogenetic analysis of the ARF family tables of the ARF GEFs and ARF GAPs and more than a dozen chapters describing them in detail are provided The impact of the ARF proteins on widely diverse aspects of cell biology and cell signalling can be clearly seen from the activities described including membrane traffic lipid metabolism receptor desensitization mouse development microtubule dynamics and bacterial pathogenesis Anyone interested in understanding the complexities of cell signalling and the integration of signalling networks will benefit from this volume

The Coronin Family of Proteins Christoph S. Clemen, Ludwig Eichinger, Vasily Rybak, 2008-10-17 The coronins first described in *Dictyostelium discoideum* in 1991 have been detected in all eukaryotes except plants They belong to the superfamily of WD40 repeat proteins and represent a large family of proteins which are often involved in cytoskeletal functions Phylogenetic studies clearly distinguish 12 subfamilies of which six exclusively occur in vertebrates In the present book we have made a sincere attempt to provide a comprehensive overview on all aspects of coronin proteins including history structure subcellular localization and function in different organisms In addition we also included a general overview on the WD40 family of proteins and the structurally related Kelch family The book should be of interest for scientists outside the field but

is more importantly intended as a fast and competent guide for newcomers as well as doctoral and postdoctoral scientists to coronin research in all its facets

Membrane Proteins Rossen Donev, 2022-01-13 Membrane Proteins Volume 128 in the Advances in Protein Chemistry and Structural Biology series highlights new advances in the field with this new volume presenting interesting chapters written by an international board of authors Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Protein Chemistry and Structural Biology series Updated release includes the latest information on the membrane proteins

Alzheimer's Disease: Cellular and Molecular Aspects of Amyloid beta J. Robin Harris, Falk Fahrenholz, 2006-11-22 To understand Alzheimer s disease AD is one of the major thrusts of present day clinical research strongly supported by more fimdamental cellular biochemical immunological and structural studies It is these latter that receive attention within this book This compilation of 20 chapters indicates the diversity of work currently in progress and summarizes the current state of knowledge Experienced authors who are scientifically active in their fields of study have been selected as contributors to this book in an attempt to present a reasonably complete survey of the field Inevitably some exciting topics for one reason or another have not been included for which we can only apologize Standardization of terminology is often a problem in science not least in the Alzheimer field editorial effort has been made to achieve standardization between the Chapters but some minor yet acceptable personal author variation is still present i e P amyloid amyloid P Ap42 Apl 42 APi 42 The book commences with a broad survey of the contribution that the range of available microscopical techniques has made to the study of Alzheimer s amyloid plaques and amyloid fibrillogenesis This chapter also serves as an Introduction to the book since several of the topics introduced here are expanded upon in later chapters Also it is significant to the presence of this chapter that the initial discovery of brain plaques by Alois Alzheimer utilized light microscopy a technique that continues to be extremely valuable in present day AD research

Topics in Fluorescence Spectroscopy Joseph R. Lakowicz, 2006-04-18 Fluorescence spectroscopy and its applications to the physical and life sciences have evolved rapidly during the past decade The increased interest in fluorescence appears to be due to advances in time resolution methods of data analysis and improved instrumentation With these advances it is now practical to perform time resolved measurements with enough resolution to compare the results with the structural and dynamic features of mac molecules to probe the structures of proteins membranes and nucleic acids and to acquire two dimensional microscopic images of chemical or protein distributions in cell cultures Advances in laser and detector technology have also resulted in renewed interest in fluorescence for clinical and analytical chemistry Because of these numerous developments and the rapid appearance of new methods it has become difficult to remain current on the science of fluorescence and its many applications Consequently I have asked the experts in particular areas of fluorescence to summarize their knowledge and the current state of the art This has resulted in the initial two volumes of Topics in Fluorescence Spectroscopy which is intended to be an ongoing series which summarizes in one

location the vast literature on fluorescence spectroscopy The third volume will appear shortly The first three volumes are designed to serve as an advanced text These volumes describe the more recent techniques and technologies Volume 1 the principles governing fluorescence and the experimental observables Volume 2 and applications in biochemistry and biophysics Volume 3 *Transmission Electron Microscopy* C. Barry Carter, David B. Williams, 2016-08-24 This text is a companion volume to *Transmission Electron Microscopy A Textbook for Materials Science* by Williams and Carter The aim is to extend the discussion of certain topics that are either rapidly changing at this time or that would benefit from more detailed discussion than space allowed in the primary text World renowned researchers have contributed chapters in their area of expertise and the editors have carefully prepared these chapters to provide a uniform tone and treatment for this exciting material The book features an unparalleled collection of color figures showcasing the quality and variety of chemical data that can be obtained from today's instruments as well as key pitfalls to avoid As with the previous TEM text each chapter contains two sets of questions one for self assessment and a second more suitable for homework assignments Throughout the book the style follows that of Williams Carter even when the subject matter becomes challenging the aim is always to make the topic understandable by first year graduate students and others who are working in the field of Materials Science Topics covered include sources in situ experiments electron diffraction Digital Micrograph waves and holography focal series reconstruction and direct methods STEM and tomography energy filtered TEM EFTEM imaging and spectrum imaging The range and depth of material makes this companion volume essential reading for the budding microscopist and a key reference for practicing researchers using these and related techniques

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