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Membrane Dynamics and Domains



Edited by
Peter J. Quinn

Membrane Dynamics And Domains Subcellular Biochemistry

Peter J. Quinn



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 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 led 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 aspects 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

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 Peroxiredoxin 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 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 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

Lipid Domains and the Relationship to Membrane Function Roland C. Aloia, Cyril C.

Curtain, Larry M. Gordon, 1988

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

Biological Water Gertz I. Likhtenshtein, 2021-10-21 This book embraces all physiochemical aspects of the structure and molecular dynamics of water focusing on its role in biological objects e.g. living cells and tissue and in the formation of functionally active structures of biological molecules and their ensembles Water is the single most abundant chemical found in all living things It offers a detailed look into the latest modern physical methods for studying the molecular structure and dynamics of the water and provides a critical analysis of the existing literature data on the properties of water in biological objects Water as a chemical reagent and as a medium for the formation of conditions for enzymatic catalysis is a core focus of this book Although well suited for active researchers the book as a whole as well as each chapter on its own can be used as fundamental reference material for graduate and undergraduate students throughout chemistry physics biophysics and biomedicine

The Secretory and Endocytic Paths Alan Michael Tartakoff, 1987 A broadly based highly

readable account of the intracellular transport of macromolecules along the secretory and endocytic paths emphasizing basic concepts and essential methods of cell biology and challenges for future research Adopting an interdisciplinary approach that spans the fields of anatomy biochemistry and molecular biology it methodically juxtaposes and compares the information and concepts relating to the two paths The major sections on these topics are further divided into sections discussing composition of each of the two compartments how they participate in intracellular transport and specificity of transport The focus throughout is on the need for input from molecular biology to deepen the knowledge of cell biological issues Also included is a current bibliography along with ample illustrations and line drawings of electron micrographs

Molecular Biology of the Cell, 2006 **Journal of Cell Science**, 2004 **Biotechnology of Cell Regulation** Roberto Verna, Yasutomi Nishizuka, 1991 *Methods for Studying Membrane Fluidity* Roland C. Aloia, Cyril C. Curtain, Larry M. Gordon, 1988

Biologiske skrifter Kongelige Danske videnskabernes selskab, 1939 Encyclopedia of Cell Biology, 2015-08-07 The Encyclopedia of Cell Biology Four Volume Set offers a broad overview of cell biology offering reputable foundational content for researchers and students across the biological and medical sciences This important work includes 285 articles from domain experts covering every aspect of cell biology with fully annotated figures abundant illustrations videos and references for further reading Each entry is built with a layered approach to the content providing basic information for those new to the area and more detailed material for the more experienced researcher With authored contributions by experts in the field the Encyclopedia of Cell Biology provides a fully cross referenced one stop resource for students researchers and teaching faculty across the biological and medical sciences Fully annotated color images and videos for full comprehension of concepts with layered content for readers from different levels of experience Includes information on cytokinesis cell biology cell mechanics cytoskeleton dynamics stem cells prokaryotic cell biology RNA biology aging cell growth cell Injury and more In depth linking to Academic Press Elsevier content and additional links to outside websites and resources for further reading A one stop resource for students researchers and teaching faculty across the biological and medical sciences *Cambridge Scientific Biochemistry Abstracts*, 1992 **Molecular Basis of Cardiovascular Disease** Kenneth R. Chien, Eugene Braunwald, 1999 Covering the molecular basis of heart disease this text evaluates topics such as genetic mapping approaches in inherited cardiovascular disorders and driving mechanisms in the transition from cardiac hypertrophy to heart failure

Embracing the Beat of Expression: An Psychological Symphony within **Membrane Dynamics And Domains Subcellular Biochemistry**

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