

SUBCELLULAR BIOCHEMISTRY  
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# Fusion of Biological Membranes and Related Problems

Edited by

Herwig Hilderson  
and Stephen Fuller

# Fusion Of Biological Membranes And Related Problems

## Subcellular Biochemistry

**A. Lahiri Majumder, B. B. Biswas**



## **Fusion Of Biological Membranes And Related Problems Subcellular Biochemistry:**

Fusion of Biological Membranes and Related Problems Herwig J. Hilderson, Stephen Fuller, 2000-04-30 In this book some aspects of fusion of biological membranes as well as related problems are presented Although not complete there is a lot of recent information including on virus induced membrane fusion

**Applications of Group-Theoretical Methods in Hydrodynamics** V.K. Andreev, O.V. Kaptsov, Vladislav V. Pukhnachev, A.A. Rodionov, 1998-10-31 It was long ago that group analysis of differential equations became a powerful tool for studying nonlinear equations and boundary value problems This analysis was especially fruitful in application to the basic equations of mechanics and physics because the invariance principles are already involved in their derivation It is in no way a coincidence that the equations of hydrodynamics served as the first object for applying the new ideas and methods of group analysis which were developed by I V Ovsyannikov and his school The authors rank themselves as disciples of the school The present monograph deals mainly with group theoretic classification of the equations of hydrodynamics in the presence of planar and rotational symmetry and also with construction of exact solutions and their physical interpretation It is worth noting that the concept of exact solution to a differential equation is not defined rigorously different authors understand it in different ways The concept of exact solution expands along with the progress of mathematics solutions in elementary functions in quadratures and in special functions solutions in the form of convergent series with effectively computable terms solutions whose searching reduces to integrating ordinary differential equations etc We consider it justifiable to enrich the set of exact solutions with rank one and rank two in variant and partially invariant solutions to the equations of hydrodynamics

**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 Journal of Cell Biology**, 2005 No 2 pt 2 of November issue each year from v 19 1963 47 1970 and v 55 1972 contain the Abstracts of papers presented at the Annual Meeting of the American Society for Cell Biology 3d 1963 10th 1970 and 12th 1972

**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

**Peroxioredoxin 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

**Chromatin and Disease** Tapas K. Kundu, Dipak Dasgupta, 2007-05-04 This book includes a collection of articles with the broad theme of disease connection to chromatin structure and function It elaborates on the molecular pharmacology of the drugs targeting chromatin structure and its components The book contains up to date information about the chromatin structure and chromatin related diseases and drug functions This work is the first endeavor to present different aspects encompassing the above theme

**Subcellular Biochemistry** D.B. Roodyn, 2013-11-11

**Phosphoinositides II: The Diverse Biological Functions** Tamas Balla, Matthias Wymann, John D. York, 2012-02-29 Phosphoinositides play a major role in cellular signaling and membrane organization During the last three decades we have learned that enzymes turning over phosphoinositides control vital physiological processes and are involved in the initiation and progression of cancer inflammation neurodegenerative cardiovascular metabolic disease and more In two volumes this book elucidates the crucial mechanisms that control the dynamics of phosphoinositide conversion Starting out from phosphatidylinositol a chain of lipid kinases collaborates to generate the oncogenic lipid phosphatidylinositol 3 4 5 trisphosphate For every phosphate group added there are specific lipid kinases and phosphatases to remove it Additionally phospholipases can cleave off the inositol head group and generate poly phosphoinositols which act as soluble signals in the cytosol Volume I untangles the web of these enzymes and their products and relates them to function in health and disease Phosphoinositide 3 kinases and 3 phosphatases have received a special focus in volume I and recent therapeutic

developments in human disease are presented along with a historical perspective illustrating the impressive progress in the field Volume II extends into the role of phosphoinositides in membrane organization and vesicular traffic Endocytosis and exocytosis are modulated by phosphoinositides which determine the fate and activity of integral membrane proteins Phosphatidylinositol 4 5 biphosphate is a prominent flag in the plasma membrane while phosphatidylinositol 3 phosphate decorates early endosomes The Golgi apparatus is rich in phosphatidylinositol 4 phosphate stressed cells increase phosphatidylinositol 3 5 biphosphate and the nucleus has a phosphoinositide metabolism of its own Phosphoinositide dependent signaling cascades and the spatial organization of distinct phosphoinositide species are required in organelle function fission and fusion membrane channel regulation cytoskeletal rearrangements adhesion processes and thus orchestrate complex cellular responses including growth proliferation differentiation cell motility and cell polarization The two volumes on Phosphoinositides provide a concise overview of the latest developments in the field of phosphoinositide hemostasis and function and provide introductory background and extensions into unexplored territory

*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

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 fundamental 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      *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      **Molecular**

**Mechanisms of Parasite Invasion** Barbara A. Burleigh, Dominique Soldati, 2008-12-05 All of the parasitic organisms highlighted in this new book represent medically important human pathogens that contribute significantly to the global burden of disease As such there is intense interest in understanding the molecular basis of infection by these pathogens not only with regard to their clinical relevance but also the fascinating biology they reveal For most of the parasites discussed here the ability to penetrate biological barriers and or to establish intracellular residence is critical to survival of the pathogen in the mammalian hosts For other parasites a tissue invasive phenotype is a key virulence determinant In the ensuing 18 chapters select members of this diverse set of protozoan parasites as well as some examples of the extremely reduced fungal parasites classified as Microsporidia are discussed within the context of the fascinating molecular strategies employed by these organisms to migrate across biological barriers and to establish residence within target host cells

*Genome Stability and Human Diseases* Heinz-Peter Nasheuer, 2009-12-11 Since the establishment of the DNA structure researchers have been highly interested in the molecular basis of the inheritance of genes and of genetic disorders Scientific investigations of the last two decades have shown that in addition to oncogenic viruses and signalling pathways alterations genomic instability is important in the development of cancer This view is supported by the findings that aneuploidy which results from chromosome instability is one of the hallmarks of cancer cells Chromosomal instability also underpins our fundamental principles of understanding tumourigenesis It thought that cancer arises from the sequential acquisition of genetic alterations in specific genes In this hypothesis these rare genetic events represent rate limiting bottlenecks in the clonal evolution of a cancer and pre cancerous cells can evolve into neoplastic cells through the acquisition of somatic mutations This book is written by international leading scientists in the field of genome stability Chapters are devoted to

genome stability and anti cancer drug targets histone modifications chromatin factors DNA repair apoptosis and many other key areas of research The chapters give insights into the newest development of the genome stability and human diseases and bring the current understanding of the mechanisms leading to chromosome instability and their potential for clinical impact to the reader

**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

**Phospholipid Metabolism in Apoptosis** Peter J. Quinn, Valerian E. Kagan, 2006-04-18 The last few years have witnessed an explosion of both interest and knowledge about apoptosis the process by which a cell actively commits suicide The number of publications on the topic has increased from nothing in the early 1980s to more than 10 000 papers annually today It is now well recognized that apoptosis is essential in many aspects of normal development and is required for maintaining tissue homeostasis The idea that life requires death seems somewhat paradoxical but cell suicide is essential for an animal to survive For example without selective destruction of non self T cells an animal would lack immunity Similarly meaningful neural connections in the brain are whittled from a mass of cells Further developmental cell remodeling during tissue maturation involves programmed cell death as the major mechanism for functional and structural safe transition of undifferentiated cells to more specialized counterparts Apoptosis research with roots in biochemistry developmental and cell biology genetics and immunology embraces this long ignored natural law Failure to properly regulate apoptosis can have catastrophic consequences Cancer and many diseases AIDS Alzheimer s disease Parkinson s disease heart attack stroke etc are thought to arise from deregulation of apoptosis As apoptosis emerges as a key biological regulatory mechanism it has become harder and harder to keep up with new developments in this field

*Phosphoinositides I: Enzymes of Synthesis and Degradation* Tamas Balla, Matthias Wymann, John D. York, 2012-03-08 Phosphoinositides play a major role in cellular signaling and membrane organization During the last three decades we have learned that enzymes turning over phosphoinositides control vital physiological processes and are involved in the initiation and progression of cancer inflammation neurodegenerative cardiovascular metabolic disease and more In two volumes this book elucidates the crucial mechanisms that control the dynamics of phosphoinositide conversion Starting out from phosphatidylinositol a chain of lipid kinases collaborates to generate the oncogenic lipid phosphatidylinositol 3 4 5 trisphosphate For every phosphate group added there are specific lipid kinases and phosphatases to remove it Additionally phospholipases can cleave off the inositol head group and generate poly phosphoinositols which act as soluble signals in the cytosol Volume I untangles the web of these enzymes and their products and relates them to function in health and disease Phosphoinositide 3 kinases and 3 phosphatases have received a special focus in volume I and recent therapeutic developments in human disease are presented along with a historical perspective

illustrating the impressive progress in the field      **Enzyme-Catalyzed Electron and Radical Transfer** Andreas Holzenburg, Nigel S. Scrutton, 2006-01-27 Dramatic advances have been made in recent years in the field of redox enzymology which has resulted in an increase of research activities This volume will cover the recent milestone developments in this field by leading experts uniting theory and experiment and selecting contributions to illustrate important aspects of the mechanisms of electron and radical transfer in proteins Features A demonstration of the key principles controlling biological redox reactions Experimental studies of simple soluble systems in various enzyme families to illustrate concepts in the control of electron transfer reactions Detail of advances made in membrane electron transfer through structural descriptions of key membrane embedded proteins Appeal to those interested in the design and use of redox enzymes from academics to industrialists      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      *Mechanisms of Rab Protein Membrane Recruitment* Monica Calero, 2003



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