



Molecular Mechanisms Of Membrane Fusion

John Jacob Peters



Molecular Mechanisms Of Membrane Fusion:

Molecular Mechanisms of Membrane Fusion Shinpei Ohki, 2012-12-06 Membrane fusion is an important molecular event which plays a pivotal role in many dynamic cellular processes such as exocytosis endocytosis membrane biogenesis fertilization etc While many reports on the physico chemical process involved in membrane fusion have appeared in the literature and much information has accumulated there has been no comprehensive meeting of workers in the field A recent symposium which took place at the Center for Tomorrow State University of New York at Buffalo New York April 27 29 1987 was the first meeting of its kind to specifically address the molecular mechanisms of membrane fusion The Symposium consisted of oral workshop and poster presentation sessions The papers presented in the oral and workshop sessions are collected here and arranged approximately in the order presented at the Symposium These papers are the most up to date and representative work at the front of each aspect of membrane fusion Although the readers may find some differences in interpretations regarding the molecular mechanisms of membrane fusion there is an overall consensus that increased hydrophobicity and dehydration of the membrane surface are essential physico chemical factors for membrane fusion to occur We trust that these papers will contribute to your further understanding of the mechanisms of membrane fusion

Molecular Mechanisms of Membrane Fusion , Molecular Mechanisms of Membrane Fusion at the Synapse John Jacob Peters, 2021 Membrane fusion is a fundamental biophysical process that facilitates synaptic transmission in both the pre and postsynaptic terminals Neurotransmitters are released from the presynaptic terminal via synaptic vesicle SV fusion with the presynaptic plasma membrane while postsynaptically neurotransmitter receptors are inserted via fusion of trafficking vesicles with the postsynaptic membrane While the key molecules involved in SV fusion including neuronal SNAREs the calcium sensors synaptotagmins Munc13 Munc18 complexin NSF SNAPs and many other synaptic proteins have been identified and atomic resolution structures of some of their complexes determined much is yet unknown about the architecture of the synaptic proteins in their native environment at the SV docking site Recently some of the SV fusion proteins have also been found to be important for the insertion of the ionotropic glutamatergic AMPA receptors AMPARs via AMPAR trafficking vesicle ATV fusion However at present understanding of the regulation of AMPAR insertion is much more limited compared to SV fusion In this this I investigate the mechanisms of membrane fusion both pre and postsynaptically

Membrane Fusion Leonid V. Chernomordik, Leonid Vital'evich Chernomordik, Michael M. Kozlov, 2011-07-27 This volume of Current Topics in Membranes focuses on Membrane Fusion beginning with fusion and fission of lipid bilayers with reviews focused on hemifusion and dynamic remodeling of membranes catalyzed by dynamin Other topics discussed include viral fusion intracellular fusion developmental cell fusion and theoretical modeling *The Molecular Mechanism Behind Synaptic Transmission* Jiajie Diao, Cong Ma, 2020-05-05 **Biotechnological Applications of Lipid Microstructures** B. P.

Gaber, 2012-12-06 In the twenty years since Bangham first described the model membrane system which he named liposomes

a generation of scientists have explored the properties of lipid based microstructures Liposomes of all sizes tubular and helical structures and self assembled lipid films have been prepared and studied in detail Many of the advances in the basic research have led to significant technological applications Lipid microstructure research has begun to mature and it is an appropriate time for an in depth look at the biotechnological applications both achieved and potential As a forum for active discussions within this growing field two Workshops were organized Technological Applications of Phospholipid Bilayers Vesicles and Thin Films held in Puerto de la Cruz Tenerife Canary Islands and Biotechnological Applications of Membrane Studies held in Donostia San Sebastian Basque Country Spain The organizers of these Workshops believe that development of lipid self assembly into a technological discipline requires significant interaction across traditional scientific boundaries Thus the Workshops gathered an eclectic group of colleagues whose interests ranged from basic research into structure interactions and stabilization of biomembranes to applications of lipid microstructures such as artificial cells diagnostic reagents energy transfer systems and biosensors

Molecular Mechanisms of Phagocytosis Carlos Rosales, 2008-05-07

Although Phagocytosis was first described nearly 120 years ago we are just recently beginning to understand the molecules that phagocytic cells use to bring about this complex cell function Molecular Mechanisms of Phagocytosis was prepared as a series of up to date essays chapters that describe the present knowledge on the various steps of the phagocytic process from initial cell contact through internalization of the foreign particle to the final phagosome formation where the phagocytosed particle is destroyed

Cell and Model Membrane Interactions S. Ohki, 2012-12-06

Membrane interaction is a large research area involving various disciplines A symposium entitled Cell and Model Membrane Interactions which took place in Boston MA during the 155th American Chemical Society Meeting April 25 1990 focused on membrane adhesion and fusion The topics were explored in studies involving lipids virus envelopes and cell membranes Especially discussed were the roles of polymers lipids and proteins on these membrane interactions Fusion of membrane is an important molecular event which plays a pivotal role in many dynamic cellular processes such as exocytosis endocytosis membrane genesis viral infection processes etc The process includes adhesion of the membranes fusion and finally reorganization of the components of the two membranes The basic notion shared during the symposium was that membrane hydrophobicity especially local membrane hydrophobicity is one of the important factors contributing to membrane fusion Most of the papers are collected here and they are arranged approximately in the same order as they were presented at the symposium These papers are the most up to date and representative work at the forefront in each membrane interaction field I sincerely hope the reader will gain further understanding on membrane interactions especially membrane and vesicle fusion phenomena through this symposium proceedings volume

Signal Transduction During Biomembrane Fusion Danton H. O'Day, 2012-12-02

Signal Transduction during Biomembrane Fusion begins with three review articles that put the problem of signal transduction and biomembrane fusion into a general perspective Each subsequent chapter begins with an introduction which reviews past

work on a specific biological system The authors current research is then detailed The chapters conclude with final comments wherein the contributors express viewpoints about the general significance and progression of their work This book comprises 12 chapters with the first focusing on signal transduction during biomembrane fusion The succeeding chapters then discuss the focal membrane fusion model osmotic phenomena in membrane fusion cell signaling and regulation of exocytosis at fertilization of the egg and signal transduction during exocytosis in mast cells Other chapters cover protein kinase c and granule membrane fusion GTP binding proteins and formation of secretory vesicles and signal transduction during phagocytosis The remaining chapters discuss calcium signal transduction pathway and myoblast fusion phospholipid metabolism during calcium regulated myoblast fusion protein kinase c membrane protein phosphorylation and calcium influx in chick embryo skeletal myoblast fusion and signal transduction and cell fusion in dictyostelium This book will be of interest to practitioners in the fields of neurobiology zoology and the biological sciences Subcellular Biochemistry D.B.

Roodyn,2013-11-11 *Electron Microscopy Of Subcellular Dynamics* Helmut Plattner,1989-09-30 This illustrated volume surveys the correlated use of currently available methods of electron microscopic techniques along with the goals and perspectives for future developments The authors discuss an integrative approach of different EM preparation and analysis techniques that can allow for an analysis of dynamic cellular processes with high temporal and spatial resolution on the electron microscope level This concise yet thorough work is a valuable reference for researchers in the field *Molecular Mechanisms of Neurotransmitter Release* Zhao-Wen Wang,2023-08-24 Neurons communicate with each other by releasing neurotransmitters This book provides comprehensive coverage of the molecular mechanisms involved in neurotransmitter release The topics covered in the book range from the architecture and cytomatrix proteins of presynaptic sites to the modes of synaptic vesicle exocytosis full collapse and kiss and run and from the key molecules mediating synaptic vesicle fusion SNAREs to those that closely interact with them UNC 13 Munc13 UNC 18 Munc18 tomosyn and complexins The book also delves into the calcium sensors of synaptic vesicle fusion synaptotagmins and Doc2s the sources of calcium that trigger synaptic exocytosis voltage gated calcium channels and ryanodine receptors and the regulation of neurotransmitter release by potassium channels cell adhesion molecules lipids aryl hydrocarbon receptor interacting protein AIP presenilins and calstabins To aid in understanding and illustrate key concepts the book includes sufficient background information and a wealth of illustrations and diagrams The new edition includes major updates to previous chapters as well as several new chapters that reflect the recent advances in the field Comprehensive and cutting edge Molecular Mechanisms of Neurotransmitter Release 2nd edition is a valuable learning resource for neuroscience students and a solid reference for neuroscientists **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 inter national 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 National Library of Medicine Current Catalog National Library of Medicine (U.S.),1989 *Biochemical and Biophysical Roles of Cell Surface Molecules* Kausik Chattopadhyay,Subhash C. Basu,2019-01-12 Cell surface small molecules and macromolecules such as members of cholesterol family including steroid hormones the glycolipid family sphingolipids the glycoprotein family both N linked and O linked and a vast array of other receptors have been shown to be involved in normal and abnormal cellular processes The 11th International Symposium on Cell Surface Macromolecules held in Mohali India in February 2017 provided a comprehensive update on the major advances in this area Presenting selected contributions from this meeting this book comprises 24 chapters which provide in depth analyses of data on the role of cell surface macromolecules in cellular function and their alterations associated with pathological conditions It includes comprehensive research papers and critical overviews of the functional role of cell surface molecules discussing topics such as biochemical biophysical and cell biological approaches to study cell membrane molecules and metabolism of glycoconjugates **Intracellular Mechanisms for Neuritogenesis** Ivan Curtis,2007-04-03 This book present in novel distinct but highly related aspects of the intracellular mechanisms required for the formation of a functional neurite which include cytoskeletal organization membrane traffic and signal transduction Its aim is to present this topic to the general readership of neurobiologists and molecular and cellular biologists to further stimulate the interest into this exciting section of neurobiology **Biomedical Index to PHS-supported Research** ,1987 The Structure of Biological Membranes Philip L. Yeagle,2004-06-28 Recent research has provided an abundance of new information on membrane biochemistry Now more than ever it is essential to update our current understanding of membrane structure and function to fully appreciate and apply these findings Completely revised and updated to reflect advances in the field The Structure of Biological Membranes *Structure and Properties of Cell Membrane Structure and Properties of Cell Membranes* Benga,2018-01-18 This book provides in depth presentations in membrane biology by specialists of international repute The volumes examine world literature on recent advances in

understanding the molecular structure and properties of membranes the role they play in cellular physiology and cell cell interactions and the alterations leading to abnormal cells Illustrations tables and useful appendices complement the text Those professionals actively working in the field of cell membrane investigations as well as biologists biochemists biophysicists physicians and academicians will find this work beneficial *Lipid Bilayers* J. Katsaras, T. Gutberlet, 2013-06-29

A general review of lipid bilayer structure and dynamics is given including such current topics as the hydration of lipid bilayers the superstructural behaviour of bilayers at different states of hydration and external conditions the role and behaviour of lipid bilayers on fusion and rupture and the interaction of lipid bilayers with small organic molecules and additives and of protein lipid bilayer interactions In addition recent research on lipid interaction with proteins and other molecules in monolayers is reviewed and the use of highly aligned samples under biologically relevant conditions and the benefits derived from such preparations are addressed Finally the latest approach in simulation of impurities within a lipid bilayer is introduced This book will be a comprehensive review of the current state of biologically relevant model membrane systems which will become an indispensable reference for the working biophysicist

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