Donald F.H. Wallach Richard J. Winzler

Evolving Strategies and Tactics in Membrane Research



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Pierre Morell

Evolving Strategies And Tactics In Membrane Research:

Evolving Strategies and Tactics in Membrane Research Donald Francis Hoelzl Wallach, Richard J. Winzler, 1974-07-15 Evolving Strategies and Tactics in Membrane Research D.F. Hoelzl Wallach, R.J. Winzler, 2012-12-06 Richard J Winzler died of a heart attack on September 28 1972 He was a versatile internationally renowned biochemist gifted with bound less energy and a great breadth of view After early work on respiratory enzymes he developed a lifelong in te rest in complex carbohydrates and particularly glycoproteins He early recognized the important role of the latter substances in membrane function and developed the now widely accepted model for the structure of major erythrocyte membrane glyco pro teins He expanded this model to include the possible general roles of membrane glycoproteins in specific membrane functions particularly cell recognition phenomena Richard Winzler possessed a broad and critical perception of the ftux of biomedical progress He thus appreciated very early that general recognition of the complexity of membrane associated phenomena would foster a new rapidly expanding interdisciplinary membrane technology. He also recognized the need for means to bridge the communication barriers inevitably genera ted by such an evolution and this conviction largely stimulated us to write this book Membrane technology is a vast field and we cannot treat all its aspects Instead we concentrate on those areas that in our view have evolved most rapidly In this we pay primary but not exclusive attention to the plasma membrane but where relevant consider other biomem branes and diverse model systems Moreover we focus on animal cells but include information derived from microbial and artificial membranes where germane **Evolving strategies and tactics in** membrane research Donald F. H. Wallach, Richard J. Winzler, 1974 Catalog of Copyright Entries. Third Series Library of **Concepts and Models** D.C. Tosteson, 2012-12-06 This Volume forms the cornerstone of Congress. Copyright Office, 1976 this series of four books on Membrane Transport in Biology It includes chapters that address i the theoretical basis of investigations of transport processes across biological membranes ii some of the experimental operations often used by scientists in this field iii chemical and biological properties common to most biological membranes and iv planar thin lipid bilayers as models for biological membranes The themes developed in these chapters recur frequently throughout the entire series Transport of molecules across biological membranes is a special case of diffu sion and convection in liquids The conceptual frame of reference used by investigators in this field derives in large part from theories of such processes in homogeneous phases Examples of the application of such theories to transport across biological membranes are found in Chapters 2 and 4 of this Volume In Chapter 2 Sten Knudsen emphasizes a statistical and molecular approach while in Chapter 4 Sauer makes heavy use of the thermodynamics of irreversi ble processes Taken together these contributions introduce the reader to the two sets of ideas which have dominated the thinking of scientists working in this field Theoretical consideration of a more special character are also included in several other Chapters in Volume I For example Ussing Chapter 3 re works the flux ratio equation which he introduced into the field of transport across biological membranes in

1949 Membrane Anomalies of Tumor Cells D. F. Wallach, 1978 Nuclear Magnetic Resonance R J Abraham, 2007-10-31 As a spectroscopic method Nuclear Magnetic Resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an in valuable source of current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis Structural and Kinetic Approach to Plasma Membrane Functions C. Nicolau, A. Paraf,2012-12-06 Molecular and Cellular Mechanisms in Disease J.L. VanLancker, 2012-12-06 In spite of ingenious experiments imaginative theories and unshakable faith in supreme forces there is no way to know how life began What is certain is that in the course of the development of the universe existing sources of energy fused to generate atoms and atoms mingled to become small molecules At some point by chance or design according to one s belief but no one s evidence small molecules such as hydrogen oxygen carbon dioxide water and ammonia reacted to yield larger molecules with the property most essential to life self replication Such molecules had to achieve a proper balance between the stability needed for their survival in the environment and the mutability for the generation of many forms of life How amino acids were created or how DNA RNA and proteins developed remains a mystery But we know that a simple core of nucleic acid embedded in a protein coat made the simplest unit of life except for viroids Whether viruses are a primitive or degenerated form of life is not known Once proteins appeared their great structural plasticity allowed them to react with other elements such as sulfur iron copper and zinc After an incalculable number of years some of the proteins became capable of catalyzing the synthesis of new nucleic acids new proteins and other compounds such as polysaccharides and lipids Biomembranes Lionel A. Manson, 2013-04-17 A coordinated approach using biochemical and immunological tools has given us a better understanding of the structure of the eukaryotic surface membrane From such studies has emerged the fluid mosaic model of membrane structure and this volume contains a collection of articles written by noted workers in this field A major emphasis in this area of research concerns the changes brought about on virus induced and carcinogen induced tumor cells The first chapter comes from a laboratory that was one of the first to visualize the distribution of transplantation antigens on cell membrane

surfaces Various methods are described for visualizing these antigens by electron microscopy Davis and his colleagues then proceed to show how the antibody induced redistribution of antigenic macromolecules led to the formulation of the fluid mosaic model From Hakomori's labora tory comes a methodological paper describing a novel method of labeling the carbohydrate portions of the membrane glycoproteins that are exposed on the outer surfaces of cells The two chapters reviewing the changes found on carcinogen induced and virus induced malignant cells complete the survey of the structures associated with surface mem branes Thanks are due to Mrs Carol Garafolo who helped immeasurably with the preparation of the index for this volume Biochemistry of Vision Hitoshi Shichi, 2012-12-02 Biochemistry of Vision provides information pertinent to vision biochemistry This book discusses the biochemical information derived primarily from studies on nonocular tissues and describes the biochemical reactions related to the function of the retina and pigmented epithelium Organized into 16 chapters this book begins with an overview of the visual system and the structure of the vertebrate eye The text then proceeds with a discussion of photoreceptor which has a highly membranous structure Other chapters cover a brief discussion of several topics including biomembranes photochemistry spectral properties of retinal isomers and the photochemical properties of the chromophore of rhodopsin This book discusses as well the properties and intramembrane disposition of rhodopsin The final chapter deals with the biochemistry of photoreceptor disorders and summarizes the basic knowledge on neurotransmitters and electrophysiology in the retina This book is intended for ophthalmologists and medical students who are interested in the molecular aspects of photoreceptor diseases *Nuclear Magnetic Resonance Volume 6* ,1973 Annotation As a spectroscopic method Nuclear Magnetic Resonance NMR has seen spectacular growth over the past two decades both as a technique and in its applications Today the applications of NMR span a wide range of scientific disciplines from physics to biology to medicine Each volume of Nuclear Magnetic Resonance comprises a combination of annual and biennial reports which together provide comprehensive of the literature on this topic This Specialist Periodical Report reflects the growing volume of published work involving NMR techniques and applications in particular NMR of natural macromolecules which is covered in two reports NMR of Proteins and Acids and NMR of Carbohydrates Lipids and Membranes For those wanting to become rapidly acquainted with specific areas of NMR this title provides unrivalled scope of coverage Seasoned practitioners of NMR will find this an in valuable source of current methods and applications Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis Dynamic Aspects of Cell Surface Organization George Poste, Garth L. Nicolson, 2013-10-22 Cell Surface Reviews Volume 3 Dynamic Aspects of Cell Surface Organization reviews the progress in the study of the dynamic nature of membrane organization. The book is comprised of 14 chapters that discuss

the various areas of concerns relating to membrane dynamics. The coverage of the text includes techniques and methods employed in the analysis and manipulation of the various aspects of cell membranes such as freeze fracture techniques manipulation of the lipid composition of cultured animal cells and somatic genetic analysis The book also talks about some of the traits and behaviors of membrane dynamics including shedding of tumor cell surface antigens dynamics of antibody binding and complement interactions at the cell surface and structure and function of surface immunoglobulin of lymphocytes The text will be of great use to microbiologists biochemists and other researchers whose work requires a good understanding of the various aspects of cells National Library of Medicine Current Catalog National Library of Medicine (U.S.),1974 First multi year cumulation covers six years 1965 70 Basic Exercises in Immunochemistry A. Nowotny, 2012-12-06 Biomembrane Structure and Function Dennis Chapman, 1983-06-18 Carbohydrate Chemistry I S Brimacombe, 2007-10-31 Carbohydrate Chemistry provides review coverage of all publications relevant to the chemistry of monosaccharides and oligosaccharides in a given year The amount of research in this field appearing in the organic chemical literature is increasing because of the enhanced importance of the subject especially in areas of medicinal chemistry and biology In no part of the field is this more apparent than in the synthesis of oligosaccharides required by scientists working in glycobiology Clycomedicinal chemistry and its reliance on carbohydrate synthesis is now very well established for example by the preparation of specific carbohydrate based antigens especially cancer specific oligosaccharides and glycoconjugates Coverage of topics such as nucleosides amino sugars alditols and cyclitols also covers much research of relevance to biological and medicinal chemistry Each volume of the series brings together references to all published work in given areas of the subject and serves as a comprehensive database for the active research chemist Specialist Periodical Reports provide systematic and detailed review coverage in major areas of chemical research Compiled by teams of leading authorities in the relevant subject areas the series creates a unique service for the active research chemist with regular in depth accounts of progress in particular fields of chemistry Subject coverage within different volumes of a given title is similar and publication is on an annual or biennial basis Myelin Pierre Morell, 2013-11-21 The division of the mature mammalian brain and spinal cord into regions of white matter and gray matter is observable upon the most cursory inspection Microscopic examination indicates that the white matter regions are characterized by a multilamellar sheath myelin which sur rounds the axons A morphologically similar myelin imparts the white color to tracts of the peripheral nervous system although as is empha sized throughout the book there are very significant morphological and chemical differences between central and peripheral myelin The rapid postnatal accumulation of myelin is temporally associated with increasing functional capacity and presumably indicates some important role related to neuronal activity The ability of myelinated axons to conduct electrical impulses much more rapidly and with much lower use of energy relative to unmyelinated axons is now generally accepted As is evident from the above capsule description a considerable body of information concerning myelin is available However as

in other areas of research the unknown expands before us more rapidly than we are able to add to our core of knowledge This is a corollary of the axiom that a good experiment raises more questions than it answers Among the areas currendy under investigation in many laboratories are the following interaction of myelin forming cells with neurons assembly and metabo lism of myelin molecular architecture of myelin and the details of the functional role of myelin **Macromolecules, and Evolution** Lawrence S. Dillon, 2013-11-11 Thus far in the history of biology two and only two fundamental principles have come to light that pervade and unify the entire science the cell theory and the concept of evolution While it is true that recently opened fields of investigation have given rise to several generalizations of wide impact such as the universality of DNA and the energetic dynamics of ecology closer inspection reveals them to be part and parcel of either of the first two mentioned Because in the final analysis energy can act upon an organism solely at the cellular level its effects may be perceived basically to represent one facet of cell me tabolism Similarly because the DNA theory centers upon the means by which cells build proteins and reproduce themselves it too proves to be only one more even though an exciting aspect of the cell theory In fact if the matter is given closer scrutiny evolution itself can be viewed as being a fundamental portion of the cell concept for its effects arise only as a consequence of changes in the cell s genetic apparatus accumulating over geological time Or if one wishes the diametrically opposite standpoint may be taken For if current concepts of the origin of life hold any validity the evolution of precellular organisms from the primordial biochemicals must have proceeded over many eons of time prior to the advent of even the most primitive cell **Enzymes of Lipid** Metabolism Shimon Gatt, 2012-12-06

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