

Biological Horizons in Surface Science

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Biological Horizons In Surface Science

Gheorghe Benga



Biological Horizons In Surface Science:

Biological Horizons in Surface Science L Prince, 2012-12-02 Biological Horizons in Surface Science presents techniques used in surface science research as well as experimental data It is organized in such a way that there is a transition from the more theoretical or molecular to the more biological Emphasis is placed on the importance of water in determining molecular architecture and interactions Methods of examining molecular associations and complex formation of molecules are discussed and the results from such studies are reviewed Permeability is examined from the point of view of the energies required to penetrate between two different phases and from the role that multicellular membranes may play in directing the diffusion of ions or solutes in general Current concepts of membrane structure based on membrane models are discussed and some new models are suggested Application of surface science techniques and the unique energies present at interphases are considered with regard to drug interaction with biological tissue and immunological phenomena The importance of surfactant protein lipid association is also discussed in regard to alveolar mechanics This book is directed particularly to biologists who will find many of the techniques used of significance in their own research It also aims to interest graduate students in this area of investigation **National Library of Medicine Current Catalog** National Library of Medicine (U.S.), 1971 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **Surface and Interfacial Aspects of Biomedical Polymers** J.D. Andrade, 2012-12-06 This book is intended to provide a fundamental basis for the study of the interaction of polymers with living systems biochemicals and with aqueous solutions The surface chemistry and physics of polymeric materials is a subject not normally covered to any significant extent in classical surface chemistry textbooks Many of the assumptions of classical surface chemistry are invalid when applied to polymer surfaces Surface properties of polymers are important in the development of medical devices and diagnostic products Surface properties are also of vital importance in fields such as adhesion paints and coatings polymer filler interactions heterogeneous catalysis composites and polymers for energy generation The book begins with a chapter considering the current sources of information on polymer surface chemistry and physics It moves on to consider the question of the dynamics of polymer surfaces and the implications of polymer surface dynamics on all subsequent characterization and interfacial studies Two chapters are directed toward the question of model polymers for preparing model surfaces and interfaces Complete treatments of X ray photoelectron spectroscopy and attenuated total reflection infrared spectroscopy are given There is a detailed treatment of the contact angle with particular emphasis on contact angle hysteresis in aqueous systems followed by chapters on interfacial electrochemistry and interface acid base charge transfer properties The very difficult problem of block and graft copolymer surfaces is also discussed The problem of theoretical calculations of surface and interfacial tensions is presented Raman spectroscopy is considered as an analytical technique for polymer surface characterization *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

Medical Applications of Liposomes D.D. Lasic,D. Papahadjopoulos,1998-07-22 The development of liposomes as a drug delivery system has fluctuated since its introduction in the late 1960 s by A D Bangham While academic research of liposomes as a model membrane system has always flourished as the exponential growth of papers can testify the application of these findings to medically useful products has gone through several crises Following the original optimism in the 70 s and early 80 s a period of severe skepticism ensued at the end of the 80 s and beginning of the 90 s culminating in a moderate but real optimism in the mid 90 s as a result of a successful launch of the first products in the US and Europe In this collection of papers the editors have gathered the most promising ideas approaches applications and commercial developments thereby presenting an up to date compilation of the present status of the field This includes such broad areas as anti cancer chemotherapy immune stimulation and infectious diseases Currently the major areas of progress are in delivery of anti fungal agents by conventional liposomes or lipid based carriers and systemic anticancer therapy using long circulating liposomes The future applications as characterized by the direction of present day research is in specific targeting and delivery of informational molecules such as DNA plasmids genes antisense oligonucleotides or ribozymes Other future developments may be in topical delivery vaccination and in diagnostics Features of this book Contributions from almost all the leading labs in the field Up to date critical reviews bridged by editors introductions Organized into a logical framework

Advances in Liquid Crystal Research and Applications Lajos Bata,2013-10-22 Advances in Liquid Crystal Research and Applications Volume 2 covers the proceedings of the Third Liquid Crystal Conference of the Socialist Countries The book discusses several papers concerning the development and advancement of the research and application aspects of liquid crystals The text is comprised of 52 chapters that are organized into four parts explaining an aspect of liquid crystal Part I covers amphiphilic while Part II discusses mesomorphic polymers The third part tackles synthesis and the fourth part talks about the physical properties and applications The book will be of great use to researchers and professionals whose line of work concerns liquid crystals

Structure and Properties of Cell Membrane Structure and Properties of Cell Membranes Gheorghe 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

Advances in Lipid Research Rodolfo Paoletti, David Kritchevsky, 2014-06-28 Advances in Lipid Research Volume 21 covers several significant and emerging areas in lipid metabolism including apolipoprotein metabolism and leukotrienes This book discusses the role of fat in the functioning of the immune system Organized into eight chapters this volume begins with an overview of the metabolism of apolipoprotein B which is the principal protein of chylomicrons very low density and low density lipoprotein This text then describes the metabolism biosynthesis and pharmacology of leukotrienes Other chapters consider the relation of lipids to immunology and explain the roles played by lipids in the structure and function of yeast membrane This book discusses as well the general importance in the plant kingdom and the place of some carotenoids in human biology The final chapter deals with the influence of proteins on configuration and function of reconstituted lipid membranes This book is a valuable resource for biologists chemists biochemists scientists and research workers

The Antigens Michael Sela, 2014-05-10 The Antigens Volume IV is a comprehensive treatise covering all aspects of antigens including their chemistry and biology as well as their immunologic role and expression Topics covered range from the immune reactions of lipids and lipid model membranes to the immunology of antibiotics and protective antigens of bacteria Antigens of pathogenic fungi are also explored along with adjuvants and antigenic competition Comprised of seven chapters this volume begins with a review of lipids as antigens followed by a discussion on the immunological aspects of antibiotics The next two chapters are concerned with more complex antigens namely bacteria and fungi as well as the relationship between immunity and infection The last three chapters deal with three important areas of immunology antigenic competition adjuvants and lectins In particular the chemistry of lectins and their application to immunology are examined This monograph will be of interest to practitioners and researchers in immunology experimental and clinical medicine biochemistry and other disciplines

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