

Ernst Schering Research Foundation
Workshop 26

RECENT TRENDS IN
MOLECULAR
RECOGNITION



Springer

F. Diederich
H. Künzer
Editors

Recent Trends In Molecular Recognition

A. Cato, H. Schaecke, K. Asadullah



Recent Trends In Molecular Recognition:

Recent Trends in Molecular Recognition F. Diederich, H. Künzer, 2013-04-17 Reasoning in terms of molecular recognition may be traced back to Emil Fischer who practiced the art of chemistry at Humboldt University in Prussian Berlin a century ago Today it is clearly recognized that molecular recognition impacts and determines all life processes It has become a key research field in both chemistry and biology and the emerging interface of what now is being called chemical biology The technological advances derived from this knowledge are particularly important diverse and directly evident in the pharmaceutical industry Under the auspices of the Ernst Schering Research Foundation a workshop held in Berlin in February 1998 addressed novel basic developments of potential relevance to drug research efforts A balance of timely research topics in molecular recognition is presented in the lectures delivered by a multidisciplinary international panel of renowned scholars and documented in this volume

Recent Trends on QSAR in the Pharmaceutical Perceptions

Mahmud Tareq Hassan Khan, 2012 Quantitative Structure Activity Relationship QSAR is a field where true multidisciplinary approaches are being used This volume titled Recent Trends on QSAR in the Pharmaceutical Perceptions offers an overview on the latest advancements in the field

Recent Advances in Glucocorticoid Receptor Action

A. Cato, H. Schaecke, K. Asadullah, 2013-04-17 The long term use of glucocorticoids is associated with several deleterious effects Attempts to separate the beneficial from the adverse effects of these compounds have met with varying degrees of difficulty The discovery of distinct modes of action of the glucocorticoid receptor the protein that mediates glucocorticoid action has opened up many possibilities for improving glucocorticoid therapy This book provides an in depth overview of the molecular actions of the glucocorticoid receptor and discusses the chances of an imminent identification of selective glucocorticoid agonists Such compounds should fulfill all the criteria of a glucocorticoid but should lack the sideeffects so far linked with classical glucocorticoids

New Trends in Fluorescence Spectroscopy

Bernard Valeur, Jean-Claude Brochon, 2012-12-06 Fluorescence is more and more widely used as a tool of investigation analysis control and diagnosis in many fields relevant to physical chemical biological and medical sciences New technologies continuously emerge thanks to the progress in the design of light sources e.g. laser diodes detectors 3D 4D and compact ultrafast electronic devices In particular much progress has been made in time resolved fluorescence microscopy FRET Fluorescence Lifetime Imaging Microscopy FCS Fluorescence Correlation Spectroscopy Furthermore the sensitivity now allows one to detect a single molecule in the restricted field of a confocal microscope which actually offers the possibility to study phenomena at a molecular level The development of new fluorescent probes is still a necessity In particular the growing use of lasers implies high resistance to photo degradation Fluorescence emission at long wavelengths is also a distinct advantage Furthermore in vivo inclusion of new fluorescent aromatic residues in proteins offer new potentialities in biology of ions and molecules is Fluorescence based selective detection still the object of special attention Considerable effort is being made in the design of supramolecular

systems in which the recognition event is converted into a fluorescence signal easily detected New fluorescent sensors for clinical diagnosis and detection of pollutants in atmosphere and water are extensively developed All these developments justify the regular publication of books giving the state of the art of the methods and applications of fluorescence spectroscopy

RECENT TRENDS IN CHEMICAL SCIENCES AND ENVIRONMENTAL SCIENCE Dr. Azad Kumar, Dr. Rajesh Kumar Singh, Dr. Yashvant Rao, 2021-11-18 Our intention in publishing this book was to discuss and interpret all of the major issues in the chemical and environmental science disciplines because this book covers such a broad range of chemical and environmental science research area Rather we have selected the themes and challenges briefly defined them and demonstrated how they connect clarified the terminology and indicated where further research may be accessed We hope that the result is an excellent introduction to chemical and environmental science It is primarily aimed towards researchers in chemical science and related fields but it should be accessible to new researchers as well We have explored into more depth on issues that have received little attention elsewhere There are several useful sources for topics such as chemical science environmental science nanotechnology ionic liquids solid waste management photodegradation Nanomaterial adsorption of hazardous metals and conducting polymers However we attempted to provide up to current knowledge we are well aware that books may soon go out of date if they seek to provide too much detail so we concentrated on basic concepts that should not go out of fashion too quickly Our book differs somewhat from other texts in the chemical and environmental sciences in its concentration We have focused on ideas and theories because we feel that a solid grasp of them will be more useful in the long run than specifics of present systems services and approaches We've also highlighted the dimension since we feel it's critical to understand where the discipline and its components originated from and why some things are the way they are This approach is based on the research with several references provided at the end of each chapter for convenience Our intention is that the content of this book will be sufficient to provide a fundamental knowledge of the entire field and that readers will refer to the references for more information and examples of the parts of which they are most interested The conclusion words and captions as well as the important references at the conclusion of each chapter are intended to present the main points in a factual way

Recent Trends and Perspectives on Electrochemical Sensors for Environmental Monitoring Sibel A. Ozkan, 2024-06-28 Recent Trends and Perspectives on Electrochemical Sensors for Environmental Monitoring presents current trends and progress on electrochemical sensors for environmental monitoring The book comprehensively discusses various strategies to design electrochemical sensors for the analysis of contaminants of emerging concern in environmental samples and offers a thorough perspective on the most prominent methods materials and procedures available in the literature on electrochemical sensors for environmental monitoring This book will be a helpful resource for the development of new sensor technologies and advanced onsite applications that can be used in routine analysis Demonstrates how to make a sensitive analysis of environmental pollutants Documents state of the art techniques

recent examples and emphasizes fabrication strategies Presents the principles methods and equipment needed for various analytes detection and environmental monitoring using electrochemical techniques

Recent Trends in Carbohydrate Chemistry Amélia Pilar Rauter,Bjørn E. Christensen,László Somsák,Paul Kosma,Roberto Adamo,2020-04-27 Carbohydrate chemistry provides access to carbohydrate based natural products and synthetic molecules as useful biologically active structures relevant to many health care and disease related biological processes Recent Trends in Carbohydrate Chemistry Synthesis Structure and Function of Carbohydrates covers green and sustainable reactions organometallic carbohydrate chemistry synthesis of glycomimetics multicomponent reactions and chemical transformations leading to molecular diversity based on carbohydrates These include inhibitors of glycogen phosphorylase which are relevant in controlling type 2 diabetes and sugar sulfates Polysaccharides which are commonly modified chemically are also examined with contributions covering polysaccharide synthesis and modification of polysaccharides to obtain new structures and properties Recent Trends in Carbohydrate Chemistry Synthesis Structure and Function of Carbohydrates is ideal for researchers working as synthetic organic chemists and for those interested in biomolecular chemistry green chemistry organometallic chemistry and material chemistry in academia as well as in industry Demonstrates the importance of carbohydrate chemistry as green and sustainable chemistry Details monosaccharide syntheses and transformations toward biologically active small molecular entities Provides the most recent findings on polysaccharide synthesis and bioapplications

Chromatography Robert L. Wixom,Charles W. Gehrke,2011-01-31 Leading researchers discuss the past and present of chromatography More than one hundred years after Mikhail Tswett pioneered adsorption chromatography his separation technique has developed into an important branch of scientific study Providing a full portrait of the discipline Chromatography A Science of Discovery bridges the gap between early twentieth century chromatography and the cutting edge of today s research Featuring contributions from more than fifty award winning chromatographers Chromatography offers a multifaceted look at the development and maturation of this field into its current state as well as its importance across various scientific endeavors The coverage includes Consideration of chromatography as a unified science rather than just a separation method Key breakthroughs revolutions and paradigm shifts in chromatography Profiles of Nobel laureates who used chromatography in their research and the role it played Recent advances in column technology Chromatography s contributions to the agricultural space biological medical sciences pharmaceutical science and environmental natural products and chemical analysis Future trends in chromatography With numerous references and an engaging series of voices Chromatography A Science of Discovery offers a diverse look at an essential area of science It is a unique and invaluable resource for researchers students and other interested readers who seek a broader understanding of this field

New Trends in Macromolecular and Supramolecular Chemistry for Biological Applications Marc J.M. Abadie,Mariana Pinteala,Alexandru Rotaru,2021-05-26 This contributed volume applies the insights of supramolecular chemistry to biomedical applications such as ions water

transport through nano scale channels gene therapy tissue engineering and drug delivery to cite some of the major investigations The challenge is to understand the mechanisms of transport through tissues particularly in the therapeutic treatment of a disease where the active drug must be delivered directly to diseased cells without affecting healthy cells As a result smaller quantities of active substances can be used to treat the disease Another interest concerns new ways to administer gene therapy If genes are often delivered to their target cells by adapted viruses the supramolecular non viral vectors using dynamic nano frameworks and nano structures are presented In addition it is important to reconstruct damaged tissues by mimicking natural processes in cells and polymers such as tissue engineering and self healing Different options are here discussed e g hydrogels based on chitosan a carbohydrate polymer are proving especially promising for tissue engineering and drug delivery For controlled delivery of drugs or other biologically active compounds hydrogels sensitive to the most important stimuli in the human body such as temperature pH ionic strength glucose and biomolecules released by the organism in pathological conditions have been developed Finally to assist and validate the experimental studies computer modelling and simulations of large sized molecular structures and systems using different molecular dynamics and quantum mechanical techniques are developed based on the experimental and chemistry synthesis This book is of great interest for graduate students researchers and health professionals interested in acquiring a better understanding of the mechanisms of medical treatments In addition it provides numerous tools to develop better therapies for human diseases

Recent Trends in Nanomedicine and Tissue Engineering Jince Thomas, Sabu Thomas, Jiya Jose, 2022-09-01 Recent trends in Nanomedicine and Tissue Engineering covers numerous recent technological and research accomplishments in the area of Nanomedicine and Tissue Engineering The introduction of nanomaterials and nanotechnology have led to crucial advancements in the fields of nanomedicine and tissue engineering as well as cancer therapies and drug delivery systems The book follows recent trends in drug delivery systems wound healing fields cancer therapies protection of teeth and also other health care systems Technical topics discussed in the book include Nanorobots Tissue engineering Gene therapy Drug delivery Nanomotors Nanogels

Biosensors in Agriculture: Recent Trends and Future Perspectives Ramesh Namdeo Pudake, Utkarsh Jain, Chittaranjan Kole, 2021-03-12 This book reviews the application of nanosensors in food and agriculture Nanotechnology has the potential to become transformative technology that will impact almost all sectors Tools like nanosensors which detect specific molecular interactions can be used for on site in situ and online measurements of various parameters in clinical diagnostics environmental and food monitoring and quality control Due to their unprecedented performance and sensitivity nanobiosensors are gaining importance in precision farming The book examines the use of nanobiosensors in the monitoring of food additives toxins and mycotoxins microbial contamination food allergens nutritional constituents pesticides environmental parameters plant diseases and genetically modified organisms It also discusses the role of biosensors in increasing crop productivity in sustainable agriculture and nanosensor based smart delivery systems to

optimize the use of natural resources such as water nutrients and agrochemicals in precision farming

Current Trends and Future Developments on (Bio-) Membranes Angelo Basile, Mario Gensini, Ivo Allegrini, Alberto Figoli, 2023-01-31
 Current Trends and Future Developments on Bio Membranes Membrane Technologies in Environmental Protection and Public Health Challenges and Opportunities illustrates the application of membrane technology used in separation processes along with the advantages of membranes in comparison with other types of separation methods In addition the book illustrates new approaches for pollution monitoring and helps researchers develop new membrane systems for air or water pollution monitoring Sections focus on the application of membrane technology to new membranes hence it is ideal for R D managers in industry and a variety of others including academic researchers and postgraduate students working in strategic treatment separation and purification processes Includes membrane purification processes relating to environmental applications and membrane based tools for air monitoring Discusses membrane water potabilization Presents a comprehensive reference on recent applications of membrane technology in environmental monitoring and pollution processes

Current Trends in X-Ray Crystallography Annamalai Chandrasekaran, 2011-12-16 This book on X ray Crystallography is a compilation of current trends in the use of X ray crystallography and related structural determination methods in various fields The methods covered here include single crystal small molecule X ray crystallography macromolecular protein single crystal X ray crystallography and scattering and spectroscopic complimentary methods The fields range from simple organic compounds metal complexes to proteins and also cover the meta analyses of the database for weak interactions

New Concepts in Pathology and Treatment of Autoimmune Disorders C. Pozzilli, P. Pozzilli, J.-F. Kapp, 2001-05-15 Autoimmunity characterized by autoreactive lymphocytes and autoantibodies is the consequence of a failure to discriminate between self and non self and autoimmune diseases are an increasing threat to people living in the industrialized countries Autoimmune disorders are treatable but not curable and patients can face disability at later stages of the disease Thus there is a medical and economic need for new concepts and treatments in autoimmune disorders New concepts and treatments can only be achieved by an interdisciplinary approach bringing together expertise technologies and clinical experience The workshop focused on multiple sclerosis rheumatoid arthritis and type I diabetes and discussed conventional drug therapies gene therapy cell and tissue transplantation therapies and first treatments using blood stem cells for reprogramming the patients immune system

Current trends in Bioinformatics: An Insight Gulshan Wadhwa, P. Shanmughavel, Atul Kumar Singh, Jayesh R. Bellare, 2018-07-09 This book highlights the latest breakthrough developments in bioinformatics It presents a series of timely in depth reviews drug clinical trial studies biodiversity informatics and thematic issues In addition it includes insightful reviews on advances in computational molecular structural biology which address areas such as computing in biomedicine and genomics computational proteomics and systems biology and metabolic pathway engineering Innovations in these fields have direct impacts on key issues related to

healthcare medicine genetic disorders the development of agricultural products renewable energy and environmental protection Written by respected leaders in the field and covering a wide range of topics involving the integration of biology with computer and information science the book offers an ideal basis for teaching at the undergraduate and graduate levels It can also be used for self instruction by research investigators interested in applying bioinformatics based analytical methods and information technologists working with academic and industrial laboratories

Computational Chemistry: Reviews Of Current Trends, Vol. 4 Shridhar R Gadre, Kimihiko Hirao, Jerzy Leszczynski, Mark A Olson, Modesto Orozco, Peter Politzer, Luis Seijo, 1999-11-05 This volume presents a balanced blend of methodological and applied contributions It supplements well the first three volumes of the series revealing results of current research in computational chemistry It also reviews the topographical features of several molecular scalar fields A brief discussion of topographical concepts is followed by examples of their application to several branches of chemistry The size of a basis set applied in a calculation determines the amount of computer resources necessary for a particular task The details of a common strategy the ab initio model potential method which could be used to minimize such a task are revealed in the subsequent contribution Such an approach is applied to atoms molecules and solids Two chapters are devoted to the prediction of solvent effects in biological systems These effects are significant for interactions of nucleic acid bases and crucial for an evaluation of the free energies that govern the associations of macromolecules in aqueous solutions A chapter on the developments and applications of the multireference Moller Plesset method could be used as a reference in theoretical studies of systems where both the dynamical and nondynamical correlation effects should be accounted for This technique is an efficient tool in such investigations An explosive application of computational techniques studies of detonation initiation and sensitivity in energetic compounds is discussed in detail in the last chapter The computational treatment of such unstable compounds allows the prediction of their crucial properties without being subject to their destructive forces

New Pharmacological Approaches to Reproductive Health and Healthy Ageing Egon Diczfalusy, 2001-10-26 Professor Egon Diczfalusy a pioneer in gynaecological endocrinology and in particular female contraception celebrated his 80th birthday with a scientific symposium The participants were scientists from all over the world who had been scholars and close collaborators at different points in time The interdisciplinary meeting consisted of lectures on the epidemiological impacts of ageing its challenge for the pharmaceutical industry philosophical aspects of the future of mankind and the history and future of contraception Three round table discussions addressed the hormonal control of reproduction and ageing new approaches and future perspectives of contraception for women and men and hormone replacement in the elderly

Recent Trends in Biological Sciences: Research and Applications (NSRTBS-2016) Dr. K.S. Lakshmi ,Dr. A. Premalatha ,Dr. S. Jeya ,Dr. P. Vasanthi, 2017-09-16 The seminar was conducted to throw light on Recent Trends in Biological Sciences Research and Applications NSRTBS 2016 To provide a forum to bridge researchers practitioners and professionals from the industry

academic and government Institutions to discourse on research and recent development To have in depth assessment of the challenges involved in the dynamic and fast moving field of biological research

The Role of Natural Products in Drug Discovery J. Mulzer,R. Bohlmann,2013-04-17 Natural Products have been important sources of useful drugs from prehistoric times to the present This book gives an overview about this field and provides important recent contributions to the discovery of new drugs generated by research on natural products Total synthesis of natural products with interesting biological activities is paving the way for the preparation of new and improved analogs The methods of combinatorial chemistry permit the selection of the best drug from a large number of candidates Beyond synthesis and evaluation of organic molecules a number of new bioorganic methods are coming to the fore and will be discussed in this issue of the Ernst Schering Research Foundation workshop proceedings

Advances in Eicosanoid Research C.N. Serhan,H.D. Perez,2000-04-10 Over the last few years we have witnessed tremendous progress in the field of eicosanoids and their therapeutic applications Receptor antagonists for leukotrienes have been tested as anti inflammatories and are on the market as a treatment for asthma Receptor agonists for prostacyclin are being tested for the treatment of peripheral vascular disease and selective inhibitors of cyclooxygenase type II were just approved for the treatment of rheumatoid arthritis All these developments are the culmination of many years and man hours of careful research The field has now entered an upswing that will result in novel therapeutic applications within the next 10 years New molecules and mediators have been identified new enzymes and pathways elucidated and new therapeutic approaches have emerged The concept of eicosanoids as pro inflammatory molecules is being challenged and their role as regulators is increasingly recognized In fact some of these molecules may be important endogenous anti inflammatory agents

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