Liposomes A Practical Approach Rrc New

Lipids in Nanotechnology
Liposomes
Liposome Dermatics
Advances in Planar Lipid Bilayers and Liposomes
Dekker Encyclopedia of Nanoscience and Nanotechnology
Genetics Manual: Current Theory, Concepts, Terms
Bioorganic Chemistry
Handbook of Nonmedical Applications of Liposomes
Liposomes, Part E
The Maternal Fetal Interface
Colloids in Drug Delivery
Nanoneuroscience and Nanoneuropharmacology
Smart Pharmaceutical Nanocarriers
Gene Therapy
Liposomes
Liposome Technology
Colloid and Interface Science in Pharmaceutical Research and Development
Liposomes
Encyclopedia of Surface and Colloid Science
Liposomes

Nanoparticulates as Drug Carriers
Frontiers in Anti-Cancer Drug Discovery
Handbook of Nonmedical Applications of Liposomes
Uses of Immobilized Biological Compounds
Application of Nanotechnology in Drug Delivery
Transgenic Animals
Systems and Processes in Living Matter
Vaccine Design
Liposomes: A Practical Approach
Smart Drug Delivery
Liposomes, Part F
Mycobacterium Tuberculosis Protocols
Delivery and Controlled Release of Bioactives in Foods and Nutraceuticals
Delivery System Handbook for Personal Care and Cosmetic Products
Medical Applications of Liposomes
Phospholipids Handbook
Molecular Encapsulation
Social System Accounts
Liposomes as Tools in Basic Research and Industry (1994)

MOONEY AXEL

Lipids in Nanotechnology
Elsevier

The aim of this book is to provide detailed protocols for studying the molecular biology of the pathogen Mycobacterium tuberculosis, and its int- actions with host

cells. As established mycobacterial laboratories move - wards exploiting the genome, and laboratories with expertise in other fields apply them to mycobacteria, both traditional and novel methodologies need to be reviewed. Thus the chapters in Mycobacterium tuberculosis Protocols range from perspectives on storage of strains and safety issues to the application of the latest functional genomics technologies. The last few years have been remarkable ones for research into M. tuber- losis. The most important landmark by far has been the completion of the genome sequence of the widely studied H37Rv strain (1). We can now predict every protein and RNA molecule made by the pathogen. This information is or will soon be enriched by the addition of genome sequences of other strains from the M. tuberculosis complex: a second strain of M. tuberculosis, My- bacterium bovis, and the vaccine strain, M. bovis BCG. Valuable comparative data will also be provided by the genome sequences of Mycobacterium leprae, Mycobacterium avium, and Streptomyces coelicolor. Another recent milestone for M. tuberculosis has been the development of efficient mutagenesis me- odologies, the lack of which has been a major handicap in functional studies.

Liposomes Liposomes: A Practical Approach

Liposome Technology, Volume I: Liposome Preparation and Related Techniques, Third Edition, is a thoroughly updated and expanded new edition of a classic text in the field. Including step-by-step technical details, Volume I illustrates numerous methods for liposome preparation and auxiliary techniques necessary for the stabilization and characterization of liposomes. This source also offers critical discussions of the methodologies of each technology described so that readers can examine the benefits and limitations and compare it to other approaches.

Liposome Dermatics

John Wiley & Sons

The 1,150 pages contain more information than any other comparable book. It is not a glossary or dictionary or review because all concepts are explained, not just defined or mentioned.Covers the latest developments, usually missed in textbooks and monographs.The broad range of modern genetics, of cell and molecular biology, biometry, etc. are included without glossing over the classical foundations.The hundreds of simple and clear illustrations are vey useful for classroom purposes because they can be drawn on the blackboard or projected on a screen without taking much time to make the crucial points.The

cross-references among the entries tie the contents into an extremely useful comprehensive textbook.The concise style leads the reader to the point without verbiage.The etymology of the terms is explained.The text is not intimidating and it is very easy to read because all the terms are explained within the book. Most of the biometrical procedures are presented by worked-out examples in a plain form, rarely or not found at all in other books.It effectively reaches out to non-geneticists without compromising high scientific standards. Usually the most essential features of a concept are presented at the beginning of the entry, and the reader can go as far as she/he feels needed about the logic.The WEB and e-mail addresses of databases and other sources of detailed information are very helpful.A well selected list of about 1000 references, published mainly in the last couple of years, completes the volume.The moderate price makes it a best buy, and an excellent choice to own for students, teachers, scientists, physicians, lawyers and all educated persons who cannot afford an entire library yet wish to be well informed.

Advances in Planar Lipid Bilayers and Liposomes CRC Press This book brings together recent developments in the field of drug delivery. Technological

advancements in the field of pharmaceutical sciences have revolutionized the patient care industry. The book serves to bridge the gap between the current research scenario and the technical knowledge provided at the pharmaceutical institutions to maximize the skills of individuals involved at any level in this domain. Chapters address topics related to the formulation and evaluation of drug delivery systems, various targeting approaches and novel tools, and design and statistical techniques employed to develop robust and effective dosage forms.
Dekker Encyclopedia of Nanoscience and Nanotechnology
Editura Universității din București - Bucharest University Press
Colloidal drug delivery systems present a range of therapeutic benefits in the treatment of a number of challenging conditions, allowing researchers to cross barriers that have previously prevented efficient treatment while offering improved and more targeted absorption. Summarizing recent research in the field, Colloids in Drug Delivery assembles
Genetics Manual: Current Theory, Concepts, Terms
Elsevier
Liposomes: A Practical ApproachOxford University Press
Bioorganic Chemistry CRC Press
Employing a multidisciplinary approach to

phospholipid research, this work catalogues the current knowledge of this class of molecules and details the general, chemical, physical and structural properties of phospholipid monolayers and bilayers. Phospholipid applications are also covered.

Handbook of Nonmedical Applications of Liposomes Boydell & Brewer

Volume 5 presents recent research on both planar lipid bilayers and liposomes based on their historic and experimental realization. Advances in Planar Lipid Bilayers and Liposomes, Volume 5, continues to include invited chapters on a broad range of topics, covering both main arrangements of the reconstituted system, namely planar lipid bilayers and spherical liposomes. The invited authors present the latest results in this exciting multidisciplinary field of their own research group. Many of the contributors working in both fields over many decades were in close collaboration with the late Prof. H. Ti Tien, the founding editor of this book series. There are also chapters written by some of the younger generation of scientists included in this series. This volume keeps in mind the broader goal with both systems, planar lipid bilayers and spherical liposomes, which is the further development of this interdisciplinary field worldwide. * Contributions from

newcomers and established and experienced researchers * Exploring theoretically and experimentally the planar lipid bilayer systems and spherical liposomes * This volume is dedicated to mark the Bilayer Lipid Membranes 45th anniversary

Liposomes, Part E CRC Press

Active ingredients in foods must remain fully functional for as long as necessary and be transported and discharged appropriately to have the desired nutritional effect. Delivery and controlled release systems are an essential way to achieve these aims. This important book reviews how to optimise these systems to maximise the health-promoting properties of food products. Opening chapters review factors affecting nutrient bioavailability and methods to test delivery system efficacy. Part two addresses materials used and specific techniques for delivery and release. The benefits and drawbacks of structured lipids, micro- and nano-emulsions, food-protein-derived materials, complexes and conjugates of biopolymers, and starch as an encapsulation material for delivery of functional food ingredients, are all considered. Part three discusses the delivery and controlled release of particular nutraceuticals such as

antioxidants and vitamins, folic acid, probiotics, fish oils and proteins. Part four covers regulatory issues and future trends in bioactives and nutraceuticals. Edited by a leading expert in the field, Delivery and controlled release of bioactives in foods and nutraceuticals is a valuable reference for those working in the food industry and particularly those developing nutraceuticals. Reviews techniques to optimise the delivery and release of bioactives in food Discusses the factors that affect nutrient bioavailability and methods to test delivery system efficacy Addresses materials used and specific techniques for delivery and release

The Maternal Fetal Interface Elsevier

The inclusion of small guest molecules within suitable host compounds results in constrained systems that imbue novel properties upon the incarcerated organic substrates. Supramolecular tactics are becoming widely employed and this treatise spotlights them. Often, the impact of encapsulation on product formation is substantial. The use of constrained systems offers the means to steer reactions along desired pathways. A broad overview of various supramolecular approaches aimed to manipulate chemical reactions are featured. The following topics are covered in detail: - general concepts

governing the assembly of the substrate with the reaction vessel - preparation of molecular reactors - stabilization of reactive intermediates - reactions in water, in organic solvents, and in the solid state - photochemical reactions - reactions with unusual regioselectivity Molecular Encapsulation: Organic Reactions in Constrained Systems is an essential guide to the art of changing the outcome and the selectivity of a chemical reaction using nano-sized reaction vessels. It will find a place on the bookshelves of students and researchers working in the areas of supramolecular chemistry, nanotechnology, organic and pharmaceutical chemistry, and materials science as well.

Colloids in Drug Delivery World Scientific

When my interest was first drawn to the phenomenon of vaccination for virus diseases in the late 1930s, the state of the art and the science of vaccine design was not far advanced beyond the time of Jenner at the end of the 18th century and of Pasteur a century later. In the 1930s it was still believed that for the induction of immunity to a virus-caused disease the experience of infection was required, but not for a toxin-caused disease such as diphtheria or

tetanus, for which a chemically detoxified antigen was effective for immu nization. This prompted the question as to whether it might be possible to produce a similar effect for virus diseases using nonreplicating antigens. When in the 1930s and 1940s it was found possible to propagate influenza viruses in the chick embryo, protective effects could be induced without the need to experience infection by the use of a sufficient dose of a noninfectious influenza virus preparation. Later in the 1940s, it became possible to propagate polio and other viruses in cultures of human and monkey tissue and to immunize against other virus diseases in the same way. Later, with the advent of the era of molecular biology and genetic engineering, antigens and vaccines could be produced in new and creative ways, using either replicating or nonreplicating forms of the appropriate antigens for inducing a dose-related protective state.

Nanoneuroscience and Nanoneuropharmacology CRC Press Novel delivery systems designed to facilitate the use of ôfountain of youthö and other functional actives is an idea whose time has come. In a rapidly growing global market eager for products that really work, accelerating market pull forces and technology push have set the stage for this foundation text. This ômust haveö book has

been carefully designed for training, development and synergistic technology transfer across the personal care, cosmetic and pharmaceutical industries. It is not only intended for scientists and technologists but will also be of high interest to market development and business personnel. This book will cause a breakthrough in effective interaction among technology and marketing. It is a showcase for understanding, using and marketing the technology of why and how delivery systems work as well as current, emerging/potential applications and working formulations. Each chapter is written by one or more experts in the field. A wide range of companies serving the global marketplace are represented. These companies offer numerous types of delivery systems containing highly desirable functional actives, delivery system technology development services, and opportunities for technology licensing, mergers and acquisitions. A unique feature of the book is the use of Mind MapÖ technology to capture and present the essence of the thinking of over 80 authors in a ôBook-at-a-Glanceö Executive Overview section. This section has been specifically designed to empower decision making leading to the development of innovative product

differentiation in a global context. *Smart Pharmaceutical Nanocarriers* Elsevier K. Sikora Gene therapy is one of the fastest developing areas in modern medical research. Transcending the classical preclinical and clinical disciplines, it is likely to have far reaching consequences in the practice of medicine, as we enter the next millennium. Currently, there are over 200 seperate active clinical trials with over 2,500 patients entered. These studies involve over 20 countries and include patients with a wide range of diseases, including cancer, HIV infection; cystic fibrosis (CF), haemophilia, diabetes, immune deficiencies, metabolic disorders, ischaemic heart disease and arthritis. Gene therapy can be defined as the deliberate transfer of DNA for therapeutic purposes. There is a further implication that only specific sequences containing rel evant genetic information are used; otherwise, transplantation procedures involving bone marrow, kidney or liver could be considered a form of gene therapy. The con cept of transfer of genetic information as a practical clinical tool arose from the gene-cloning technology, developed during the 1970s. Without the ability to isolate and replicate defined genetic sequences, it would be impossible to produce purified material for clinical use. The drive for the practical application of this technology came

from the biotechnology industry with its quest for complex human biomole cules produced by recombinant techniques in bacteria. Within a decade, pharma ceutical-grade insulin, interferon, interleukin 2 and tumour necrosis factor were all involved in clinical trials. The next step was to obtain gene expression in vivo.

Gene Therapy John Wiley & Sons

Drug delivery systems and pharmaceutical nanocarriers that respond to different types of stimuli, such as internal ones, intrinsic for the pathological area (changes in pH, temperature, redox condition, activity of certain enzymes), or external, artificially applied (magnetic field, ultrasound, various irradiations), represent an important and continuously growing area of research. Smart Phramaceutical Nanocarriers overviews the various stimuli used for drug release and delivery by smart pharmaceutical carriers and presents cutting-edge research and the newest data from the leading laboratories in each area.

Liposomes Springer Science & Business Media

Frontiers in Anti-Cancer Drug Discovery is an Ebook series devoted to publishing the latest and the most important advances in Anti-Cancer drug design and discovery. Eminent scientists write contributions on all areas of rational

drug design and drug discovery including medicinal chemistry, in-silico drug design, combinatorial chemistry, high-throughput screening, drug targets, recent important patents, and structure-activity relationships. The Ebook series should prove to be of interest to all pharmaceutical scientists involved in research in Anti-Cancer drug design and discovery. Each volume is devoted to the major advances in Anti-Cancer drug design and discovery. The Ebook series is essential reading to all scientists involved in drug design and discovery who wish to keep abreast of rapid and important developments in the field.

Liposome Technology Oxford University Press Liposomes are cellular structures made up of lipid molecules. Important as a cellular model in the study of basic biology, liposomes are also used in clinical applications such as drug delivery and virus studies. Methods in Liposome Preparation Physiochemical Characterization of Liposomes

Colloid and Interface Science in Pharmaceutical Research and Development CRC Press

This book is an up-to-date and unique collection of experimental protocols from an area of pharmaceutical research that is essential for the development of new, highly specific drugs as

well as for the exploration of completely new therapeutic approaches to disease treatments.

Liposomes World Scientific

Written by key experts in the field of nanomedicine, this book provides a broad introduction to the important field of nanomedicine and application of nanotechnology for drug delivery. It covers up-to-date information regarding various nanoparticulate drug delivery systems, describes the various opportunities for the application of nanoparticular drug carriers in different areas of clinical medicine, and analyzes already available information on their clinical applications. This book can be used as an advanced textbook by graduate students and young scientists and clinicians at the early stages of their career. It is also suitable for non-experts from related areas of chemistry, biochemistry, molecular biology, biomedical engineering, physiology, experimental and clinical medicine, and pharmaceutical sciences, who are interested in general problems of drug delivery and drug targeting, as well as in more specialized topics of using nanoparticulate-mediated drug delivery approaches in the individual areas of clinical medicine. Prof Torchilin is an expert in Nanomedicine and a

recipient of numerous awards including the Lenin Prize in Science & Technology of the former USSR, membership in the European Academy of Sciences, and AAPS Research Achievement Award in Pharmaceutics and Drug Delivery. He served as an Associate Professor of Radiology at Harvard Medical School before joining Northeastern University as the Chairman of the Department of Pharmaceutical Sciences. Sample Chapter(s). Chapter 1: Introduction. Nanocarriers for Drug Delivery: Needs and Requirements (442 KB). Contents: Nanoparticle Flow: Implications for Drug Delivery (A T Florence); Polymer Micelles as Drug Carriers (E V Batrakova et al.); Lipoproteins as Pharmaceutical Carriers (S Liu et al.); Dendrimers as Nanoparticular Drug Carriers (S Svenson & D A Tomalia); Cells and Cell Ghosts as Drug Carriers (J M Lanao & M L Sayalero); Magnetic Nanoparticles as Drug Carriers (U O Hnfeli & M Chastellain); Liposomal Drug Carriers in Cancer Therapy (A A Gabizon); Delivery of Nanoparticles to the Cardiovascular System (B-A Khaw); Nanoparticles for Targeting Lymphatics (W Phillips); Nanoparticular Carriers for Ocular Drug Delivery (A Sanchez & M J Alonso); and other papers. Readership: Graduate students, academics in

nanomedicine, clinicians, pharmacologists, pharmacists, bioengineers, researchers in biotechnology and diagnostic imaging." Encyclopedia of Surface and Colloid Science Birkhäuser
This book is devoted to a broader understanding of liposomes as a versatile tool used in many domains, including basic research and applied technology, focusing on less common applications and recent developments. Over the past few years, new types of liposomes made of nonphospholipid molecules have opened new perspectives in applications. These lipid vesicles, already used in cosmetology, are being manufactured for industrial and agricultural uses. However, "Stealth" liposomes, pH-sensitive liposomes, and cationic liposomes have enlarged and improved the application field of liposomes in clinical research. The book covers these different uses of liposomes with particular attention to new formulations and new applications. Liposomes Springer Science & Business Media
This volume presents articles from the leading experts in the field in nanobiotechnology, providing students and researchers with a comprehensive review of the newly emerging area of neuroscience. All aspects of

nanomaterials induced alteration in brain function are considered. Basic chapters on methods and ways to enhance nano-drug delivery into the brain are presented as well as chapters on functional and structural changes in the CNS, including gene expression and related issues. Particular attention is given to possible therapeutic advancement regarding nano-drug formulation and their role in neuroprotection.