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Pharmaceutical Applications of Dendrimers
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Current Research in Pharmaceutical Technology CRC Press
Pharmaceutical Preformulation and Formulation: A Practical Guide from Candidate Drug Selection to Commercial Dosage Form reflects the mounting pressure on pharmaceutical companies to accelerate the new drug development and launch process, as well as the shift from developing small molecules to the growth of biopharmaceuticals. The book meets the need for advanced information for drug preformulation and formulation and addresses the current trends in the continually evolving pharmaceutical industry. Topics include: Candidate drug selection Drug discovery and development Preformulation predictions and drug selections Product

design to commercial dosage form Biopharmaceutical support in formulation Development The book is ideal for practitioners working in the pharmaceutical arena—including R&D scientists, technicians, and managers—as well as for undergraduate and postgraduate courses in industrial pharmacy and pharmaceutical technology.

Drug-Drug Interactions in Pharmaceutical Development John Wiley & Sons

An important reference which provides an overview of the current and recently introduced methodologies for testing the immunotoxic risks in drug candidates Helps readers understand the significance of the methods and approaches to immunotoxicology testing Aids drug scientists in industry and regulatory areas to consolidate approaches to immunotox testing Offers a definitive assessment of nonclinical models to study the toxic impacts (bio)pharmaceuticals can have on the immune system Includes chapter authors from across the pharma industry, bringing a real-world and applied perspective to immunotox testing

6. Computer-aided biopharmaceutical characterization: gastrointestinal absorption simulation Elsevier

The field of solid state characterization is central to the pharmaceutical industry, as drug products are, in an overwhelming number of cases, produced as solid materials. Selection of the optimum solid form is a critical

aspect of the development of pharmaceutical compounds, due to their ability to exist in more than one form or crystal structure (polymorphism). These polymorphs exhibit different physical properties which can affect their biopharmaceutical properties. This book provides an up-to-date review of the current techniques used to characterize pharmaceutical solids. Ensuring balanced, practical coverage with industrial relevance, it covers a range of key applications in the field. The following topics are included: Physical properties and processes Thermodynamics Intellectual guidance X-ray diffraction Spectroscopy Microscopy Particle sizing Mechanical properties Vapour sorption Thermal analysis & Calorimetry Polymorph prediction Form selection

Pharmaceuticals from Microbes CRC Press

Biological and Pharmaceutical Applications of Nanomaterials presents the findings of cutting-edge research activities in the field of nanomaterials, with a particular emphasis on biological and pharmaceutical applications. Divided into four sections—nanomaterials for drug delivery, antimicrobial nanomaterials, nanomaterials in biosensors, and safety of nanomaterials—this book: Covers topics such as stimuli-responsive nanostructured silica matrixes, gold nanoparticles, and liposomes for targeting drug delivery and dental applications Describes the use of nanocarriers and nanoparticles as cancer

and peptide therapeutics, the influence of surface characteristics on microbial adhesion, and the latest developments in antimicrobial nanostructured polymers for medical applications Discusses recent advances in nanodiagnostic techniques for infectious agents, chromogenic biosensors for pathogen detection, electrochemical biosensors for detecting DNA damage and genotoxicity, and molecular imaging with quantum dots including surface modifications by polymers for biosensing applications Featuring contributions from field experts and researchers in industry and academia, Biological and Pharmaceutical Applications of Nanomaterials provides state-of-the-art information on nanomaterials and their use in drug delivery, infection control, and biomedicine.

Active Pharmaceutical Ingredients in Synthesis CRC Press

Presents the most effective catalytic reactions in use today, with a special focus on process intensification, sustainability, waste reduction, and innovative methods This book demonstrates the importance of efficient catalytic transformations for producing pharmaceutically active molecules. It presents the key catalytic reactions and the most efficient catalytic processes, including their significant advantages over compared previous methods. It also places a strong emphasis on asymmetric catalytic reactions, process intensification (PI), sustainability and waste mitigation, continuous manufacturing processes as enshrined

by continuous flow catalysis, and supported catalysis. Active Pharmaceutical Ingredients in Synthesis: Catalytic Processes in Research and Development offers chapters covering: Catalysis and Prerequisites for the Modern Pharmaceutial Industry Landscape; Catalytic Process Design - The Industrial Perspective; Hydrogenation, Hydroformylation and Other Reductions; Oxidation; ; Catalytic Addition Reactions; Catalytic Cross-Coupling Reactions; Catalytic Metathesis Reactions; Catalytic Cycloaddition Reactions: Coming Full-Circle; Catalytic Cyclopropanation Reactions; Catalytic C-H insertion Reactions; Phase Transfer Catalysis; and Biocatalysis. -Provides the reader with an updated clear view of the current state of the challenging field of catalysis for API production -Focuses on the application of catalytic methods for the synthesis of known APIs -Presents every key reaction, including Diels-Alder, CH Insertions, Metal-catalytic coupling-reactions, and many more -Includes recent patent literature for completeness Covering a topic of great interest for synthetic chemists and R&D researchers in the pharmaceutical industry, Active Pharmaceutical Ingredients in Synthesis: Catalytic Processes in Research and Development is a must-read for every synthetic chemist working with APIs.

Pharmaceutical Preformulation and Formulation CRC Press

Explore the cutting-edge of dissolution testing in an authoritative, one-stop resource In Pharmaceutical Dissolution Testing, Bioavailability, and

Bioequivalence: Science, Applications, and Beyond, distinguished pharmaceutical advisor and consultant Dr. Umesh Banakar delivers a comprehensive and up-to-date reference covering the established and emerging roles of dissolution testing in pharmaceutical drug development. After discussing the fundamentals of the subject, the included resources go on to explore common testing practices and methods, along with their associated challenges and issues, in the drug development life cycle. Over 19 chapters and 1100 references allow practicing scientists to fully understand the role of dissolution, apart from mere quality control. Readers will discover a wide range of topics, including automation, generic and biosimilar drug development, patents, and clinical safety. This volume offers a one-stop resource for information otherwise scattered amongst several different regulatory regimes. It also includes: A thorough introduction to the fundamentals and essential applications of pharmaceutical dissolution testing Comprehensive explorations of the foundations and drug development applications of bioavailability and bioequivalence Practical discussions about solubility, dissolution, permeability, and classification systems in drug development In-depth examinations of the mechanics of dissolution, including mathematical models and simulations An elaborate assessment of biophysiologically relevant dissolution testing and IVIVCs,

and their unique applications A complete understanding of the methods, requirements, and global regulatory expectations pertaining to dissolution testing of generic drug products Ideal for drug product development and formulation scientists, quality control and assurance professionals, and regulators, Pharmaceutical Dissolution Testing, Bioavailability, and Bioequivalence is also the perfect resource for intellectual property assessors.

Drug Discovery and Clinical Applications John Wiley & Sons

Using clear and practical examples, Polymorphism of Pharmaceutical Solids, Second Edition presents a comprehensive examination of polymorphic behavior in pharmaceutical development that is ideal for pharmaceutical development scientists and graduate students in pharmaceutical science. This edition focuses on pharmaceutical aspects of polymorphism a

A Practical Guide from Candidate Drug Selection to Commercial Dosage Form Routledge

The delivery of optimal pharmaceutical services to patients is a pivotal concern in the healthcare field. By examining current trends and techniques in the industry, processes can be maintained and improved. Pharmaceutical Sciences: Breakthroughs in Research and Practice provides comprehensive coverage of the latest innovations and advancements for pharmaceutical applications. Focusing on emerging drug development

techniques and drug delivery for improved health outcomes, this book is ideally designed for medical professionals, pharmacists, researchers, academics, and upper-level students within the growing pharmaceutical industry.

Pharmaceutical Biocatalysis IGI Global This book deals with the noteworthy advancement in the production of bioactive metabolites from microbes and their pharmacological significance. It highlights the pharmacological potential of marine microbes and endophytic fungi and their bioactive secondary metabolites. Emphasis is also given on the significance of probiotics and their specialized molecules in human health and disease as well as their role in dietary intervention for reducing the risk of non-alcoholic fatty liver disease. This work also serves as excellent reference material for researchers, students and academicians in the field of natural product chemistry, pharmacology and applied microbiology.

Handbook of Pharmaceutical Biotechnology Springer Handbook of Pharmaceutical Wet Granulation: Theory and Practice in a Quality by Design Paradigm offers a single and comprehensive reference dedicated to all aspects of pharmaceutical wet granulation, taking a holistic approach by combining introductory principles with practical solutions. Chapters are written by international experts across industry, academic and regulatory settings, and cover a wide spectrum of relevant and

contemporary wet granulation topics, techniques and processes. The books' focus on process analytical technology, quality by design principles, granulation equipment, modeling, scale-up, control and real time release makes it a timely and valuable resource for all those involved in pharmaceutical wet granulation. Discusses fundamentals of theory and current industrial practice in the field of wet granulation, including product and process design and role of material properties in wet granulation Examines the modern evolution of wet granulation through current topics such as established and novel process analytical technologies (PATs), and product development and scale-up paradigms Written for scientists working within the pharmaceutical industry, as well as academics, regulatory officials and equipment vendors who provide PAT tools and granulation equipment

Immunotoxicology Strategies for Pharmaceutical Safety Assessment CRC Press

Pharmaceutical technology deals with the discovery, production, processing, and safe and effective delivery of medications to patients. Technologies involved include computer modeling for research, bioengineering for research instrumentation, processes and methods for increasing production, and computing technology and biosystematics for the management and analysis of data. This new book covers a wide range of important topics on today’s pharmaceutical technology, such as in vitro drug release and controlled drug

delivery, the use of nanotechnology in pharmaceuticals, quantum dot imaging, assessment and efficacy of pharmaceuticals, and much more.
Metal Nanoparticles in Pharma Springer
A practical overview of a full rangeof approaches to discovering, selecting, and producing biotechnology-derived drugs The Handbook of Pharmaceutical Biotechnology helps pharmaceutical scientists develop biotech drugs through a comprehensive framework that spans the process from discovery, development, and manufacturing through validation and registration. With chapters written by leading practitioners in their specialty areas, this reference: Provides an overview of biotechnology used in the drug development process Covers extensive applications, plus regulations and validation methods Features fifty chapters covering all the major approaches to the challenge of identifying, producing, and formulating new biologically derived therapeutics With its unparalleled breadth of topics and approaches, this handbook is a core reference for pharmaceutical scientists, including development researchers, toxicologists, biochemists, molecular biologists, cell biologists, immunologists, and formulation chemists. It is also a great resource for quality assurance/assessment/control managers, biotechnology technicians, and others in the biotech industry.
Process Chemistry in the Pharmaceutical Industry, Volume 2
Pharmaceutical Applications of Dendrimers

The Life-Cycle of Pharmaceuticals in the Environment identifies pathways of entry of pharmaceuticals into the environment, beginning with the role of global prescribing and disposal practices. The book then discusses typical levels of common pharmaceuticals and how they can be determined in natural waters such as raw and treated sewage, and in potable water. In addition, sections examine methods currently available to degrade pharmaceuticals in natural waters and some of their ecotoxicological impacts, along with future considerations and the growing concept of product stewardship. Encompasses the full lifecycle of common pharmaceuticals, from prescription and dispensing practices to their occurrence in a range of different types of natural waters and their environmental impact Explores the role of the healthcare system and its affect on users Beneficial for environmental engineers involved in the design and operation of appropriate degradation technologies of the pharmaceutical prescription and disposal practices *Pharmaceutical Dosage Forms* CRC Press Research and development in the pharmaceutical industry is a time-consuming and expensive process, making it difficult for newly developed drugs to be formulated into commercially available products. Both formulation and process development can be optimized by means of statistically organized experiments, artificial intelligence and other computational methods. Simultaneous

development and investigation of pharmaceutical products and processes enables application of quality by design concept that is being promoted by the regulatory authorities worldwide. Computer-aided applications in pharmaceutical technology covers the fundamentals of experimental design application and interpretation in pharmaceutical technology, chemometric methods with emphasis of their application in process control, neural computing (artificial neural networks, fuzzy logic and decision trees, evolutionary computing and genetic algorithms, self-organizing maps), computer-aided biopharmaceutical characterization as well as application of computational fluid dynamics in pharmaceutical technology. All of these techniques are essential tools for successful building of quality into pharmaceutical products and processes from the early stage of their development to selection of the optimal ones. In addition to theoretical aspects of various methods, the book provides numerous examples of their application in the field of pharmaceutical technology. A comprehensive review of the current state of the art on various computer aided applications in pharmaceutical technology Case studies are presented in order to facilitate understanding of various concepts in computer-aided applications

Impact on Drug Discovery John Wiley & Sons

This book offers a comprehensive study of biological molecules acquired from

marine organisms, which have been exploited for drug discovery with the aim to treat human diseases. Biomolecules have potential impacts on a diverse range of fields, including medical and pharmaceutical science, industrial science, biotechnology, basic research, molecular science, environmental science and climate change, etc. To understand and effectively apply medicinally important biomolecules, multidisciplinary approaches are called for. The ocean remains a rich biological resource, and the vast untapped potential of novel molecules from marine bio-resources has caught the interest of more and more researchers. These novel biological compounds have never been found in terrestrial or other ecosystems, but only in this rich niche. Advances in sampling techniques and technologies, along with increased funding for research and nature conservation, have now encouraged scientists to look deeper in the waters. Aquaculture supports both tremendous seafood production and the bulk production of marine-derived drugs. Furthermore, molecular methods are now being extensively employed to explore the untapped marine microbial diversity. With the help of molecular and biotech tools, the ability of marine organisms to produce new biosynthetic drugs can be greatly enhanced. This book provides an extensive compilation of the latest information on marine resources and their undisputedly vital role in the treatment of diverse ailments. *Pharmaceutical Biotechnology* Springer

Science & Business Media
Focusing on the application of nanotechnology in pharmaceutical technology the editors seek to integrate the two in order to obtain innovative products and solutions in pharmacology. Interdisciplinary in content it is of interest to those who are involved in the development of nanoproducts including nanotechnologists, microbiologists, biotechnologists pharmacologists and clinicians. Recent studies are presented that include the biosynthesis of nanoparticles focusing on antimicrobials; nanomaterial-based formulations that treat cancer, infections, skin disorders and wounds;nanomaterials in eye diseases and toxicity and safety issues. It demonstrates the crucial role this plays in tackling multi-drug resistant threats.
Marine Niche: Applications in Pharmaceutical Sciences Academic Press
Stay up to date with changes in the biopharmaceutical products market! With the growth rate of biopharmaceutical products ascending rapidly since the 1980s, the number of biotechnology companies has risen to more than 1200 new businesses in the Unites States alone. This dramatic increase creates a new set of challenges in education, putting demands on teachers and students to keep pace with innovations in terminology and techniques. The Handbook of Pharmaceutical Biotechnology is essential in meeting those challenges. A practical compendium of biotechnology-produced drugs, the Handbook of

Pharmaceutical Biotechnology covers general principles of biotechnology and pharmaceuticals, putting usable information in the hands of those who need it most. The book presents descriptions that break down each pharmaceutical product by pharmacology, pharmacokinetics, clinical applications, toxicities, and dosage guidelines. It also reviews prescription products, discussing clinical uses and trials, adverse reactions, and more. Tables, figures, and extensive references add to each comprehensive summary. The Handbook of Pharmaceutical Biotechnology also includes up-to-date information on: monoclonal antibodies (Abciximab, Muromonab-CD3) enzymes and regulators of enzyme activity (Alteplase, clotting factors, Dornase alpha) anticytokines olgonucleotide and gene therapy hematopoietic growth factors (interleukins, interferons, colony stimulating factors, erythropoietin) As the worldwide production and sales of biotechnology-derived pharmaceuticals and diagnostics continues to grow, teachers, students, and clinical pharmacists need to maintain a clear and current understanding of the field. The Handbook of Pharmaceutical Biotechnology presents a thoughtful and thorough guide to keeping pace in this evolving industry.

Solid-State Properties of Pharmaceutical Materials Elsevier Inc. Chapters

Modern Applications of Plant Biotechnology in Pharmaceutical Sciences explores advanced techniques

in plant biotechnology, their applications to pharmaceutical sciences, and how these methods can lead to more effective, safe, and affordable drugs. The book covers modern approaches in a practical, step-by-step manner, and includes illustrations, examples, and case studies to enhance understanding. Key topics include plant-made pharmaceuticals, classical and non-classical techniques for secondary metabolite production in plant cell culture and their relevance to pharmaceutical science, edible vaccines, novel delivery systems for plant-based products, international industry regulatory guidelines, and more. Readers will find the book to be a comprehensive and valuable resource for the study of modern plant biotechnology approaches and their pharmaceutical applications. Builds upon the basic concepts of cell and plant tissue culture and recombinant DNA technology to better illustrate the modern and potential applications of plant biotechnology to the pharmaceutical sciences Provides detailed yet practical coverage of complex techniques, such as micropropogation, gene transfer, and biosynthesis Examines critical issues of international importance and offers real-life examples and potential solutions **Pharmaceutical and Biomedical Applications of Capillary Electrophoresis** John Wiley & Sons Veterinary pharmaceuticals provide animals with the requisite, complete animal health care. The availability of

safe and good quality medicines in the right amounts is needed in achieving optimum animal health care. The economic benefits of animal food products cannot be under-estimated. Veterinary pharmaceuticals are needed to meet the ever-growing demand of animal protein for the human population. However, their routine and unguarded use play significant roles in many public health issues, such as antimicrobial resistance. The practices, knowledge, and awareness needed on the use and application of veterinary pharmaceuticals amongst farmers, animal health professionals, microbiologists, and policy makers remain key in ensuring a safe and healthy food chain for all. In the field of veterinary medicine, canine practice is a challenge to veterinarians. In recent years, newer diagnostic methods and therapeutic protocols have been published on a regular basis. Along with the existing knowledge of important canine diseases like ascites, duodenal disorders, pericardial effusions, and canine mastitis, this book is supplemented with all the latest information. Discussion of duodenal disorders in dogs, including IBD and SIBO, is an important topic in day-to-day practice. Ascites and mastitis in dogs are also important topics and are discussed in this book. Each topic carries practical points for the diagnosis and management of important diseases of dogs. Hence, this book will be very useful for canine practitioners.

Preparation and Quality Control in

Nuclear Medicine Springer Science & Business Media
With its focus on industrial pharmaceutical research, written by international experts from the industry, this book fills in a gap in the existing literature. It reflects the combination of such pharmaceutical interests as drug delivery, drug targeting, quality and safety management, drug approval and regulation, patenting issues and biotechnology fundamentals. Thus it provides practitioners in pharmaceutical biotechnology with all the relevant information from the shelf. The first part offers a comprehensive survey and review of the rapidly increasing array of biopharmaceuticals derived from the molecular biological approaches now widely available. This is followed by an extra section devoted to the very critical patenting and drug regulation issues. The whole is rounded off by detailed monographs of biotechnologically developed drugs that are already on the market. With a foreword of by Robert Langer, Kenneth J Germeshausen Professor of Chemical and Biomedical Engineering at the Massachusetts Institute of Technology. In 2002, he received the Charles Stark Draper Prize, the highest recognition for an engineer. Professor Langer is member of all three national academies - the Institute of Medicine, the National Academy of Engineering, and the National Academy of Sciences: "The book attempts to provide a balanced view of the biotechnological industry and the number of experts from industry sharing

their knowledge and experience with the audience gives the book an outstanding value. All contributors provide with each chapter an up-to-date review on key topics in pharmaceutical biotechnology. This work is not only a valuable tool for the industrial expert but also for all pharmacists and scientists from related areas who wish to work with biotech drugs."

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