



DRUGS AND THE PHARMACEUTICAL SCIENCES

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Nanoparticulate Drug Delivery Systems

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Nanoparticulate Drug Delivery Systems Drugs And The Pharmaceutical Sciences

Raymond G Hill, Duncan Richards



Nanoparticulate Drug Delivery Systems Drugs And The Pharmaceutical Sciences:

Nanoparticulate Drug Delivery Systems Deepak Thassu, Michel Deleers, Yashwant Vishnupant Pathak, 2007-03-30 With the advent of analytical techniques and capabilities to measure particle sizes in nanometer ranges there has been tremendous interest in the use of nanoparticles for more efficient methods of drug delivery *Nanoparticulate Drug Delivery Systems* addresses the scientific methodologies formulation processing applications recent trends and e **Nanoparticulate Drug Delivery Systems** Deepak Thassu, Michel Deleers, Yashwant Vishnupant Pathak, 2007 With the advent of analytical techniques and capabilities to measure particle sizes in nanometer ranges there has been tremendous interest in the use of nanoparticles for more efficient methods of drug delivery *Nanoparticulate Drug Delivery Systems* addresses the scientific methodologies formulation processing applications recent trends **Nanoparticulate Drug Delivery Systems** Yoon Yeo, 2013-02-25 Frank discussions of opportunities and challenges point the way to new more effective drug delivery systems Interest in nanomedicine has grown tremendously fueled by the expectation that continued research will lead to the safe efficient and cost effective delivery of drugs or imaging agents to human tissues and organs The field however has faced several challenges attempting to translate novel ideas into clinical benefits With contributions from an international team of leading nanomedicine researchers this book provides a practical assessment of the possibilities and the challenges of modern nanomedicine that will enable the development of clinically effective nanoparticulate drug delivery products and systems *Nanoparticulate Drug Delivery Systems* focuses on the rationales and preclinical evaluation of new nanoparticulate drug carriers that have yet to be thoroughly reviewed in the literature The first chapter sets the stage with a general overview of targeted nanomedicine The book then explores new and promising nanoparticulate drug delivery systems including Lipid nanoparticles for the delivery of nucleic acids Multifunctional dendritic nanocarriers Polymer drug nanoconjugates Next the book presents new opportunities and challenges for nanoparticulate drug delivery systems including Clearance of nanoparticles during circulation Drug delivery strategies for combatting multiple drug resistance Toxicological assessment of nanomedicine Chapters offer state of the technology reviews with extensive references to facilitate further investigation Moreover each chapter concludes with an expert assessment of remaining challenges pointing the way to solutions and new avenues of research With its frank discussions of opportunities and challenges *Nanoparticulate Drug Delivery Systems* sets a solid foundation for new research leading to the discovery and development of better nanomedicines **Nanoparticulate Drug Delivery Systems** Deepak Thassu, Michel Deleers, Yashwant Vishnupant Pathak, 2007-03-30 With the advent of analytical techniques and capabilities to measure particle sizes in nanometer ranges there has been tremendous interest in the use of nanoparticles for more efficient methods of drug delivery *Nanoparticulate Drug Delivery Systems* addresses the scientific methodologies formulation processing applications recent trends and e Drug Delivery Nanoparticles Formulation and Characterization Yashwant Pathak, Deepak Thassu, 2016-04-19 Exploring fundamental concepts Drug

Delivery Nanoparticles Formulation and Characterization presents key aspects of nanoparticulate system development for various therapeutic applications and provides advanced methods used to file for regulatory approval This comprehensive guide features Process Analytical Techniques PAT used in manufacturing Na **Nanoparticulate Drug Delivery Systems** Raj K. Keservani, Anil K. Sharma, 2019-01-23 Focusing on nanoparticulate nanocarriers and recent advances in the field of drug delivery the volume begins with chapters that provide an informative introduction to polymeric nanoparticles their general physicochemical features and characteristics their applications in drug delivery systems and the challenges involved Specific applications are discussed with attention paid to treatment of particular diseases and disorders and the targeting of specific organs Part 2 looks at more specific applications and techniques of nanoparticulate nanocarriers for drug delivery such as the use of magnetic nanoparticles gold nanoparticles in therapeutics and superparamagnetic iron oxide nanoparticles SPIONs for the treatment of cancer Part 3 discusses lipid based nanoparticulates for various applications including skin care The last section of the book explores some of the newer nanoarchitectures including dendrimers in gene delivery and carbon nanotubes for drug delivery Together the insightful research presented here provides valuable information for those involved in this area including scientists and researchers and faculty and upper level students as well as for industry professionals

Nanoparticulates As Drug Carriers Vladimir P Torchilin, 2006-09-29 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 nanoparticulate 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 a Colloidal Drug Delivery Systems Jorg Kreuter, 2014-07-22 This volume provides a single source of reviews for all the important colloidal drug delivery systems including nanoparticles liposomes niosomes microemulsions and ointments Over 1000 bibliographic citations as well as tables drawings equations and photographs are provided Arranged in order of increasing physical complexity this work ana *Pharmacokinetics and Pharmacodynamics of Nanoparticulate Drug Delivery Systems* Jayvadan K. Patel, Yashwant V.

Pathak,2022-03-07 A reference is needed that addresses the recent progress in aspects of PK PD methods and developments of nanoparticles for novel drug delivery systems No other consolidated published reference discusses the PK PD study of nanoparticle drug delivery systems This book discusses the advantages of nanoparticle drug delivery systems NPDDS in enhancing the pharmacokinetics of many drugs that are not easily metabolized or that obtain the desired therapeutic effect with minimum toxicity The authors provide an overview of biodistribution with a focus on polymer and lipid nanoparticles This thorough reference is divided into three parts Modelling Specific carries and their potential to treat specific diseases

Drug Delivery Nanoparticles Formulation and Characterization Yashwant Pathak,Deepak Thassu,2016-04-19 Exploring fundamental concepts Drug Delivery Nanoparticles Formulation and Characterization presents key aspects of nanoparticulate system development for various therapeutic applications and provides advanced methods used to file for regulatory approval This comprehensive guide features Process Analytical Techniques PAT used in manufacturing Na

Nanoparticle Drug Delivery Systems for Cancer Treatment Hala Gali-Muhtasib,Racha Chouaib,2020-02-19 In recent years nanoparticles bionanomaterials with specific physicochemical properties have gained a great deal of scientific interest owing to their unique structure Nanoparticle based drugs are now widely regarded as a safer more precise and more effective mode of cancer therapy considering their ability to enhance drug bioavailability improve site specific drug delivery and protect nontarget tissues from toxic therapeutic drugs This book compiles and details cutting edge research in nanomedicine from an interdisciplinary team of international cancer researchers who are currently revolutionizing drug delivery techniques through the development of nanomedicines and nanotheranostics Edited by Hala Gali Muhtasib and Racha Chouaib two prominent cancer researchers this book will appeal to anyone involved in nanotechnology cancer therapy or drug delivery research

Nanocarriers for the Delivery of Combination Drugs Sanjula Baboota,Javed Ali,2021-05-18 Nanocarriers for the Delivery of Combination Drugs focuses on the role of nanocarriers in the delivery of combination drugs for the management and treatment of various diseases Nanocarriers belonging to the category of polymeric nanoparticles dendrimers lipidic nanocarriers like nanoemulsions liposomes solid lipid nanoparticles nanostructured lipid carriers are now being used in the drug delivery of combination drugs This book helps readers assimilate all the information available surrounding the application of various nanocarrier technologies for the delivery of combination drugs of synthetic and natural origin including small and large molecules This is an important reference source for pharmaceutical scientists and biomaterials scientists who are looking to gain an increased understanding on how nanotechnology is improving the efficiency of combination drug delivery Outlines how nanocarriers are used to enhance combination drug delivery systems Assesses the major challenges of delivering combination drugs successfully and explains how nanocarriers can help meet these challenges Explores the characteristics of a variety of nanocarrier material types

Applications of Polymers in Drug Delivery Ambikanandan Misra,Aliasgar Shahiwala,2020-10-02 Applications of Polymers in Drug Delivery Second

Edition provides a comprehensive resource for anyone looking to understand how polymeric materials can be applied to current new and emerging drug delivery applications. Polymers play a crucial role in modulating drug delivery and have been fundamental in the successful development of many novel drug delivery systems. This book describes the development of polymeric systems ranging from conventional dosage forms to the most recent smart systems. Regulatory and intellectual property aspects as well as the clinical applicability of polymeric drug delivery systems are also discussed. The chapters are organized by specific delivery route offering methodical and detailed coverage throughout. This second edition has been thoroughly revised to include the latest developments in the field. This is an essential book for researchers, scientists and advanced students in polymer science, drug delivery, pharmacology, pharmaceuticals, materials science, tissue engineering, nanomedicine, chemistry and biology. In industry, this book supports scientists, R D and other professionals working on polymers for drug delivery applications. Explains how polymers can be prepared and utilized for all major drug delivery routes. Presents the latest advances including drug targeting, polymeric micelles and polymersomes and the delivery of biologicals and nucleic acid therapeutics. Includes appendices with in depth information on pharmaceutical properties of polymers and regulatory aspects. **Drug Discovery and Development E-Book** Raymond G Hill, Duncan

Richards, 2021-05-16 With unprecedented interest in the power that the modern therapeutic armamentarium has to combat disease, the new edition of *Drug Discovery and Development* is an essential resource for anyone interested in understanding how drugs and other therapeutic interventions are discovered and developed through to clinical research, registration and market access. The text has been thoroughly updated with new information on biopharmaceuticals and vaccines as well as clinical development and target identification. Drug discovery and development continues to evolve rapidly and this new edition reflects important changes in the landscape. Edited by industry experts Raymond Hill and Duncan Richards, this market leading text is suitable for undergraduates and graduates undertaking degrees in pharmacy, pharmacology, toxicology and clinical development through to those embarking on a career in the pharmaceutical industry. Key stages of drug discovery and development. Chapters outline the contribution of individual disciplines to the overall process. Supplemented by specific chapters on different modalities. Includes coverage of Oligonucleotide therapies, cell and gene therapy. Now comes with online access on StudentConsult. *Mucosal Delivery of Drugs and Biologics in Nanoparticles* Pavan Muttil, Nitesh K.

Kunda, 2020-03-18 Nanotechnology has revolutionized the approach to designing and developing novel drug delivery systems. The last two decades have seen a great interest in the use of nanotechnology to offer efficient ways of delivering new and existing drugs and macromolecules. The focus of this book is the application of nanotechnology to deliver drugs and biological agents by the mucosal routes of administration i.e. nasal, pulmonary, buccal and oral routes. It provides an overview of nanotechnology in drug delivery with a description of different types of nanoparticles, methods of preparation and characterization and functionalization for site specific drug delivery. The emphasis is on the use of nanoparticles in treating

various cancers and infectious diseases It broadens the use of nanoparticles by including biologics including vaccines and immunotherapies apart from drugs and acknowledges the concerns around the potential toxicity of nanoparticles to the host several chapters will discuss the biodistribution of these nanoparticles when mucosal routes of administration are employed Further the interaction of nanoparticles with the host s immune cells is discussed Moreover it reviews the regulatory aspects of nanotechnology in product development especially when delivered by the mucosal route of administration Lastly discusses the challenges and opportunities to manufacture nanoparticles on an industrial scale This book is the first of its kind to focus on the design development and delivery of nanoparticles when administered by different mucosal routes **Handbook of**

Lung Targeted Drug Delivery Systems Yashwant Pathak,Nazrul Islam,2021-10-17 Handbook of Lung Targeted Drug Delivery Systems Recent Trends and Clinical Evidences covers every aspect of the drug delivery to lungs the physiology and pharmacology of the lung modelling for lung delivery drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications With the advent of nano sciences and significant development in the nano particulate drug delivery systems there has been a renewed interest in the lung as an absorption surface for various drugs The emergence of the COVID 19 virus has brought lung and lung delivery systems into focus this book covers new developments and research used to address the prevention and treatment of respiratory diseases Written by well known scientists with years of experience in the field this timely handbook is an excellent reference book for the scientists and industry professionals Key Features Focuses particularly on the chemistry clinical pharmacology and biological developments in this field of research Presents comprehensive information on emerging nanotechnology applications in diagnosing and treating pulmonary diseases Explores drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications Examines specific formulations targeted to pulmonary systems The Textbook of Nanoneuroscience and Nanoneurosurgery Babak Kateb,John D. Heiss,John S. Yu,Ming Hsieh,2024-11-13 This textbook highlights the exciting field of nanoneuroscience and its potential to transform how we diagnose and treat neurological disorders The Textbook of Nanoneuroscience and Nanoneurosurgery dives deep into this emerging field exploring the latest tools and techniques currently being developed at the nanoscale level Key areas of focus include Nanoplatfroms The book explores how scientists utilize materials on a near microscopic scale for neurosurgery neurology and brain imaging applications Bridging the Gap Regulatory hurdles for translating research from the lab to real world use are addressed paving the way for future advancements The Future is Now The book showcases recent breakthroughs already impacting patient care alongside promising areas with significant potential Collaboration is Key Insights from over 220 researchers and 5000 references along with illustrative figures in B W and color provide a comprehensive overview of this dynamic field With its focus on minimally invasive procedures and the latest regulatory considerations The Textbook of Nanoneuroscience and Nanoneurosurgery equips researchers and medical professionals with the knowledge to develop groundbreaking treatments for neurological

conditions The text also reviews the latest regulatory guidelines that influence the translation of nanotechnological research from the laboratory to the clinic and the most recent information on biodevices and pharmaceutical spinoffs It highlights presidential and congressional initiatives and programs that may impact the field soon Some reviews of the First edition of the textbook a significant contribution to the field of nanoneuroscience and nanoneurosurgery the reader will come away with a deeper understanding of the history of nanotechnology and medicine Neuroscience This is a monumental first textbook on nanoneurosurgery recommended reading for neurosurgeons neurologists neuroradiologists and neuroscientists involved in research on new techniques for application in neurosurgery Biomedical engineers and various companies developing instruments and devices would benefit from the wealth of information about trends for the development of new technologies for neurosurgery K K Jain MD Basel Switzerland Phenomenal body of knowledge in this book that would take eons to collate by myself Every answer to every one of my questions plus heaps more Essential reading for everyone interested in the field A must have Albert Deme This is an amazing foray into the future of a largely unexplored but increasingly critical medical domain I have learned much from every page of this captivating text and I highly recommend it to any medical student researcher medical professional in the neurosciences or anyone who has an interest in the human brain and the future of medicine to gather a glimpse of the incredible and beneficial paradigm shifts that will soon impact the field of neuroscience Frank Boehm British Columbia Canada

Nanoparticulate Drug Delivery

Vandana Patravale,Prajakta Dandekar,Ratnesh Jain,2012-10-31 Nanotechnology based therapeutics operating at scales of billionths of a metre have great potential for future expansion in altering the scale and methods of drug delivery The availability of these novel formulations to once inaccessible areas of the body has greatly expanded the therapeutic window of existing drug molecules Nanoparticulate drug delivery highlights and examines the transition of nanoparticulate drug delivery systems from the laboratory into a commercially viable sector The first chapters of the book provide an overview of the use and characterization of nanoparticulate systems as drug carriers including the assessment of their morphology sterility and potential toxicity In the latter part of the book chapters cover nanotoxicology regulatory aspect and clinical trials ending with an overview of several case studies and a look towards future developments Discusses the issues surrounding nanoparticulate products based on personal experience of their formulation Provides an overview of new application areas including RNA interference Outlines the pros and cons of nanoparticulate products and discusses how these may influence their route into the commercial sector

Integrative Nanomedicine for New Therapies

Anand Krishnan,Anil Chuturgoon,2020-03-02 This book presents current laboratory scientific and clinical aspects of nanomaterials used for medical applications in the fields of regenerative medicine dentistry and pharmacy It gives a broad overview of the in vitro compatibility assessment of nanostructured materials implemented in the medical field by the combination of classical biological protocols The chapters cover all aspects of integrative medicine such as green derived nanomaterials for biological

applications synthetic and nature derived lipid nanoparticles and polymer nanoparticles *Nanocarriers in Neurodegenerative Disorders* Wael Mohamed, 2024-09-30 Due to the lack of secure efficient and patient friendly therapies for neurodegenerative disorders there is a rising demand for innovative approaches Despite the limited number of nanocarriers approved for human use they have demonstrated significant potential in preclinical and in some instances clinical trials In alignment with this objective the chapters of the book are structured to offer a comprehensive overview of recent advancements in medication and dosage form development specifically emphasizing the nanoparticulate system for targeting the brain This book aims to furnish readers with a thorough understanding of the clinical application of nanocarrier systems for treating neurodegenerative disorders encompassing the latest developments challenges safety concerns toxicity issues regulatory considerations prospects and limitations Individuals in academia the scientific community business and education seeking a more effective approach to target the brain will find valuable insights in this resource Key Features Provides a comparative perspective of various nanocarrier systems therefore facilitating the researcher s selection of appropriate nanoparticulate carriers Highlights the related restrictions of brain delivery and current available medicines Includes information on the advantages and disadvantages of various biomaterials utilized in the development of nanocarriers for brain targeting Emphasizes distinct facets of surface functionalization according to the brain area of interest Presents the current advances preclinical and clinical development and the future potential of multiple brain targeting technologies

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