

Nanoparticulate Drug Delivery Systems

Strategies, Technologies, and Applications

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Nanoparticulate Drug Delivery Systems Strategies Technologies And Applications

Tong Li, Alessandra Mattei



Nanoparticulate Drug Delivery Systems Strategies Technologies And Applications:

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

Novel Drug Delivery Systems Mehrdad Hamidi, Mahsa Sayed Tabatabaei, 2025-01-29 This book serves as a unique resource on the field of novel drug delivery systems NDDSs catering to both academic audiences researchers teachers students and industry professionals pharmaceutical policymakers managers R D regulatory business development and marketing involved in NDDSs The evolving nature of diseases and the emergence of new health complications have driven a significant shift in drug therapy Coupled with changes in human lifestyles and economic conditions these factors have compelled the pharmaceutical industry to develop novel efficient and affordable drug products The rise of promising technologies aimed at enhancing therapeutic performance further underscores the importance of novel drug delivery systems NDDSs making this field one of the most dynamic in pharmaceutical sciences today This book offers a comprehensive exploration of NDDS applications catering to both academic and industry professionals It is designed to be

both user friendly and thorough meeting the needs of diverse readers from those seeking practical insights to those delving deeply into the field s various sectors The content has been meticulously compiled organized and analyzed by a team of experts to ensure accuracy relevance and currency The book provides up to date information suitable for a broad audience reflecting the wide scope of the NDDS field The first section covers the foundational principles of NDDS including their scientific and therapeutic basis as well as the epidemiological and economic trends driving their development Subsequent sections explore market oriented aspects such as global trends and projections Chapters 3 to 12 present a taxonomy of NDDS categorized by their routes of administration The book concludes with a forward looking report on the potential future directions of NDDS Written in clear concise language the book is accessible to non native English readers ensuring broad usability Original figures created by experts with scientific and graphic design expertise enhance the reading experience and aid in understanding complex concepts Audience A wide variety of professional readers from universities and other research institutions to health industries industrial pharmaceutical and related to the relevant high tech startups to health and pharma policymakers and managers will be among the audiences of this book

Systems of Nanovesicular Drug Delivery Amit Kumar Nayak,Md Saquib Hasnain,Tejraj M. Aminabhavi,Vladimir P. Torchilin,2022-07-16 *Systems of Nanovesicular Drug Delivery* provides a thorough insight into the complete and up to date discussions about the preparation properties and drug delivery applications of various nanovesicles This volume discusses cubosomes proniosomes and niosomes dendrimerosomes and other new and effective approaches for drug delivery It will be a valuable title and resource for academics and pharmaceutical scientists including industrial pharmacists analytical scientists health care professionals and regulatory scientists actively involved in pharmaceutical products and process development of tailor made polysaccharides in drug delivery applications Recently there have been a number of outstanding nanosystems in nanovesicular carrier forms such as nanoemulsions self nanoemulsifying systems nanoliposomes nanotransferosomes etc that have been researched and developed for efficient drug delivery by many formulators researchers and scientists However no previously published books have covered all these drug delivery nanovesicles collectively in a single resource Provides thorough insights and up to date discussions about the various systems of nanovesicular drug delivery Covers advanced trigger assisted systems such as iontophoresis ultra sound triggering etc and how they have been used for improved drug delivery by nanovesicles Presents recent advances in drug delivery fields by global leaders and experts from academia research industry and regulatory agencies Includes an updated literature review of relevant key topics good quality illustrations chemical structures attractive flow charts and well organized tables

Drug Targeting and Stimuli Sensitive Drug Delivery Systems Alexandru Mihai Grumezescu,2018-05-21 *Drug Targeting and Stimuli Sensitive Drug Delivery Systems* covers recent advances in the area of stimuli sensitive drug delivery systems providing an up to date overview of the physical chemical biological and multistimuli responsive nanosystems In addition the book presents an analysis of clinical status for different types of nanoplateforms

Written by an internationally diverse group of researchers it is an important reference resource for both biomaterials scientists and those working in the pharmaceutical industry who are looking to help create more effective drug delivery systems Shows how the use of nanomaterials can help target a drug to specific tissues and cells Explores the development of stimuli responsive drug delivery systems Includes case studies to showcase how stimuli responsive nanosystems are used in a variety of therapies including camptothecin delivery diabetes and cancer therapy **Bioinspired and Biomimetic**

Polymer Systems for Drug and Gene Delivery Zhongwei Gu,2015-03-09 Here front line researchers in the booming field of nanobiotechnology describe the most promising approaches for bioinspired drug delivery encompassing small molecule delivery delivery of therapeutic proteins and gene delivery The carriers surveyed include polymeric proteinaceous and lipid systems on the nanoscale with a focus on their adaptability for different cargoes and target tissues Thanks to the broad coverage of carriers as well as cargoes discussed every researcher in the field will find valuable information here

Handbook of Pharmaceutical Granulation Technology Dilip M. Parikh,2016-04-19 The Third Edition presents all pharmaceutical industry personnel and those in academia with critical updates on the recent advances in granulation technology and changes in FDA regulatory guidelines Addressing precisely how these recent innovations and revisions affect unit operation of particle generation and granulation this text assists the re Progress in Food Biotechnology Ali

Osman,2018-10-17 Progress in Food Biotechnology covers recent advances in the food processing sector Readers will gain an academic and industrial perspective on how biotechnology improves food product quality yield and process efficiency Novel opportunities for utilizing value added products in the food industry such as microbial cultures enzymes flavour compounds and other food ingredients are also explained Chapters in the volume cover topics related to 1 food bioactive peptides and functional properties of proteins 2 classification biosynthesis and application of bacterial exopolysaccharides 3 enzymatic modification of phospholipids and related applications 4 microbial culture research and application in food fermentation 5 probiotics prebiotics and synbiotics 6 biotechnological production of food additives 7 phenolic based nanoparticles and relevant applications 8 enzyme discovery approaches and industrial dairy enzyme applications 9 bioconversion of major industrial and agro industrial by products into various bio products as examples of a bio based economy and 10 plant epigenetics and future prospects of epigenetics to improve crop quality Information is presented in a simple language supported by graphs tables numbers market trends and accounts of successful product launches This volume is a handy resource for a broad range of industrial researchers students and biotech professionals from both academia and industry who are involved in the multidisciplinary fields of food biotechnology and food chemistry Pharmaceutical Crystals Tong Li,Alessandra Mattei,2018-09-03 An important resource that puts the focus on understanding and handling of organic crystals in drug development Since a majority of pharmaceutical solid state materials are organic crystals their handling and processing are critical aspects of drug development Pharmaceutical Crystals Science and Engineering offers an introduction

to and thorough coverage of organic crystals and explores the essential role they play in drug development and manufacturing Written contributions from leading researchers and practitioners in the field this vital resource provides the fundamental knowledge and explains the connection between pharmaceutically relevant properties and the structure of a crystal Comprehensive in scope the text covers a range of topics including crystallization molecular interactions polymorphism analytical methods processing and chemical stability The authors clearly show how to find solutions for pharmaceutical form selection and crystallization processes Designed to be an accessible guide this book represents a valuable resource for improving the drug development process of small drug molecules This important text Includes the most important aspects of solid state organic chemistry and its role in drug development Offers solutions for pharmaceutical form selection and crystallization processes Contains a balance between the scientific fundamental and pharmaceutical applications Presents coverage of crystallography molecular interactions polymorphism analytical methods processing and chemical stability Written for both practicing pharmaceutical scientists engineers and senior undergraduate and graduate students studying pharmaceutical solid state materials Pharmaceutical Crystals Science and Engineering is a reference and textbook for understanding producing analyzing and designing organic crystals which is an imperative skill to master for anyone working in the field

Industrial Applications of Nanocrystals Shadpour Mallakpour, Chaudhery Mustansar Hussain, 2022-06-23 Approx 494 pages Approx 494 pages Multifunctional Systems for Combined Delivery, Biosensing and Diagnostics Alexandru Mihai Grumezescu, 2017-05-03 Multifunctional Systems for Combined Delivery Biosensing and Diagnostics explores how multifunctional nanocarriers are being used in combined delivery and diagnostics in contemporary medicine Particular attention is given to efforts to i reduce the side effects of therapeutic agents ii increase the pharmacological effect and iii improve aqueous solubility and chemical stability of different therapeutic agents The chapters focus on applications of nanostructured materials and nanocarriers highlighting how these can be used effectively in both diagnosis and delivery This applied focus makes the book an important reference source for those wanting to learn more about how specific nanomaterials and nanotechnology systems can help to solve drug delivery and diagnostics problems This book is a valuable resource for materials scientists bioengineers and medical researchers who are looking for an applications oriented guide on how nanotechnology and nanomaterials can be used effectively throughout the medical treatment process from diagnosis to treatment Explores the benefits of using a variety of nanomaterials as drug delivery agents Explains how nanocarriers can reduce the side effects of therapeutic agents Provides an analysis of the pros and cons of using specific nanocarriers to solve particular diagnosis and delivery problems

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

Theranostic Bionanomaterials Wenguo Cui,Xin Zhao,2019-05-01 Theranostic Bionanomaterials is an invaluable study of recent advances and trends in the development and application of functional bionanomaterials for theranostic applications This book describes the design and characterization of nanomaterials which exhibit distinctive physical chemical and biological properties and discusses how these functional nanomaterials enable the precise manipulation of architectural physical and biochemical cell microenvironments in vitro In addition it covers how they can act as the carriers of diagnostic or therapeutic agents thus providing new pathways or strategies for disease diagnosis and treatment Specific chapters discuss protein delivery drug delivery tissue regeneration bioimaging biodetection and much more This book will be a critical resource for those involved in cutting edge research in theranostics bionanomaterial Focuses on nanofabrication methods of bionanomaterials Reviews the application of bionanomaterials with a focus on drug delivery and diagnosis Describes the design and characterization of nanomaterials which exhibit distinctive physical chemical and biological properties

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 **Advances in Pharmaceutical Technology for Drug Delivery Systems (PTDDS)** Sougata Jana,2025-05-09 In this new two volume set leading scientists

focus on the recent progress in pharmaceutical technology for drug delivery systems and new drug targeting strategies Each chapter covers a particular aspect of these delivery systems and relates the importance fabrication technology characterization evaluation therapeutic applications and future perspectives by pharmaceutical scientists Volume 1 Recent Progress in Modern Drug Targeting Strategies covers a broad range of developments in drug delivery systems and drug targeting strategies It discusses the challenges and the latest developments of the solid oral drug delivery system the most common mode of drug delivery and then provides a brief overview of the production physico chemical properties formulations of microcarriers nanotechnology and liposomes as drug carrier systems The volume covers transdermal drug delivery systems with a special focus on the management of skin diseases and looks at the use of hydrogels and polymeric micelle systems for drug delivery and biomedical applications The emerging role of niosomes as candidate carriers in imaging and drug delivery is also explored Other important technologies for drug delivery covered are polymer technologies featuring polymer grafting interpenetrating polymer networks IPN and polyelectrolyte complex structures for controlled drug delivery Volume 2 Recent Progress in Biomedical Applications covers the role of niosomes as a convenient cheap and stable means of delivery of therapeutics in biomedical applications It also looks at the uses of nanotechnology for drug delivery including nanoencapsulation of bioactive compounds genes in biological systems via nanotechnology based techniques and nanotechnology based polymeric scaffolds in tissue engineering Other technologies discussed include electrospun technology and 3D printing technologies in fabricating drug delivery systems The book also dedicates a chapter to the use of natural biocarriers for brain targeting a hereto difficult area for drug delivery A graphene based system for drug delivery is also discussed as are bio ceramics systems The two volumes together provide a comprehensive review of the advanced research and development in drug delivery systems and drug targeting strategies technology Advances in Nutraceutical

Applications in Cancer: Recent Research Trends and Clinical Applications Sheeba Varghese Gupta,Yashwant V Pathak,2019-10-23 Dietary supplements and nutraceuticals such as Vitamin A and D Omega 3 and probiotics are used as part of the cancer treatment as complimenting the main therapy Several Nutraceuticals have shown to boost the immune responses while emerging clinical studies and other research suggests that some plant based agents may indeed impact late stage cancer influencing molecular processes corrupted by tumor cells to evade detection expand clonally and invade surrounding tissues Advances in Nutraceutical Applications in Cancer Recent Research Trends and Clinical Applications is an attempt to collect evidence and related clinical information of application of Nutraceuticals to be used in cancer treatment or compliment the cancer treatment It contains 16 chapters written by experts in related field s and covers many different aspects of the formulation and development of Nutraceuticals for cancer applications This book covers efficacy safety and toxicological aspects of nutraceuticals It also addresses various novel drug delivery systems of nutraceuticals with anticancer properties as well as nutraceuticals as supplements for cancer prevention Features Offers a comprehensive view of

neutraceuticals role in cancer prevention and treatment Covers the applications and implications of neutraceuticals in prostate colorectal breast and gynecological cancers Discusses the principles of neutrigenomics and neutrigenetics in cancer prevention Explores the role of probiotics and micronutrients in cancer treatment and prevention Nutraceuticals can alter the gut microbiota Gut microbiome undergoes changes during the disease status and followed by the cancer treatment Nutraceutical s role in proliferation and prevention of gynecological cancers nutraceutical s role in proliferation and prevention of prostate cancer and role of micronutrients in cancer prevention both pros and cons are some of the topics discussed in various chapters in this book This book is addressed to scientists clinicians and students who are working in the area of Nutraceutical applications in cancer treatment Biomimetic Biomaterials for Tissue Regeneration and Drug Delivery Mamoni Dash,2022-03-15 This book illustrates the influence of biomimetics in the field of tissue engineering and drug delivery These two distinct fields of regenerative medicine have greatly benefited from the concept of biomimetics which focuses on using or imitating nature to develop materials for improving human lives The book begins by highlighting the relevance and recent advances in biomimetic biomaterials An updated and innovative content has been presented in terms of biomimetic systems that are being utilized in controlled delivery and stem cell therapy Further the book reviews the role of these materials in enhanced capacity for drug loading cellular uptake and controlled release within the target cells The book includes advanced techniques for characterizing biomimetic biomaterials and highlights their pivotal role in providing three dimensional templates and synthetic extracellular matrices *Patenting Nanomedicines* Eliana B. Souto,2012-07-06 Patenting Nanomedicines Legal Aspects Intellectual Property and Grant Opportunities focusses on the fundamental aspects of Patenting Nanomedicines applied in different Drug Delivery and Targeting Systems The promoters of new findings in this field of research are numerous and spread worldwide therefore managing intellectual property portfolios and the acquisition and exploitation of new knowledge face several contingency factors Today the scientific community is discussing issues of economic outcomes in the field of Nanomedicines Major concerns include questions as to whether the research groups academics industry and other stakeholders should work in unison or independently if innovation or adaptation of new technology should be prioritized public versus private research funding and safeguarding versus sharing knowledge However despite its increasing importance for humankind it is a matter of concern as to whether technological development can really be stimulated by patent protection An intellectual property strategy should aim to develop a qualitative patent portfolio for continuous learning This book addresses questions of ethics socio political policies and regulatory aspects of novel Nanomedicine based products which are currently under development for the diagnosis and treatment of different types of diseases It is divided in two parts Part I is composed of the first 3 chapters which focus on the fundamentals of legal aspects emerging threats advantages and disadvantages of patenting Nanomedicines whereas Part II collects 12 chapters discussing different types of Nanomedicine based products their potential marketing aspects and patent

protection Whenever applied each chapter offers a list of patents based on a specific application in drug delivery and targeting An outstanding team of 53 authors have contributed to this book which will be of interest to professionals from the field of patent examiners academics researchers and scientists students and other practitioners Multidisciplinary Research in Arts, Science & Commerce (Volume-24) Chief Editor- Biplab Auddya, Editor- Shagufta Shan, Dr.A.Sudarvizhi, Shweta Tiwari, Poorna Shree.T, Dr. Jay Prakash Rajak, Dr. Vinati Baurasi,2025-04-11 Nanocarriers Based Colon Targeting Lalit Kumar,Yashwant Pathak,2025-04-01 Nanocarriers Based Colon Targeting Design Development Mechanism and Case Studies unveils a groundbreaking exploration of nanotechnology's potential in revolutionizing drug delivery for colon related ailments Today an array of colonic diseases including colorectal cancer colonic polyps ulcerative colitis and inflammatory bowel syndrome pose significant medical challenges Conventional methods to deliver drugs to this system prove difficult with limited efficacy and notable side effects This book delves into the intricate complexities of colonic diseases their pathophysiology and epidemiology to support pharmaceutical scientists in designing better drug delivery systems Providing a comprehensive overview of the area the chapters elucidate diverse targeting strategies from time dependent to microbiota based drug delivery systems and explore receptor based and magnetically assisted delivery mechanisms Case studies dissected the working mechanisms behind polymeric nanoparticles polymersomes polymeric micelles solid lipid nanoparticles and other nanocarrier systems tailored for colon targeting Additionally this book explores cuttingedge topics such as gold nanoparticles supra magnetic iron oxide nanoparticles and protein peptide based nanoparticles highlighting their mechanisms applications and potential toxicities Merging an overview of colonic pathophysiology with in depth reviews of each nanomaterial used for drug delivery and practical case studies Nanocarriers Based Colon Targeting Design Development Mechanism and Case Studies is a complete reference for pharmaceutical scientists involved in elevating drug delivery precision and therapeutic efficacy in this organ system Toxicologists material scientists research physicians and regulators can also benefit from the case studies developed by expert authors Introduces different colonic diseases and their pathophysiology Explains the mechanism of action of different nanocarriers in colon targeting Presents case studies of different nanocarriers in colon targeting

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In some sort of eaten by screens and the ceaseless chatter of instant connection, the melodic beauty and mental symphony produced by the published term frequently diminish in to the backdrop, eclipsed by the persistent sound and distractions that permeate our lives. However, nestled within the pages of **Nanoparticulate Drug Delivery Systems Strategies Technologies And Applications** a wonderful fictional treasure filled with fresh feelings, lies an immersive symphony waiting to be embraced. Constructed by an elegant musician of language, this fascinating masterpiece conducts visitors on a mental trip, well unraveling the concealed songs and profound affect resonating within each cautiously constructed phrase. Within the depths of the emotional analysis, we shall examine the book is central harmonies, analyze their enthralling writing fashion, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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