NANOPARTICULATE DRUG DELIVERY SYSTEM: A NOVEL APPROACH

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REVIEW ARTICLE

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ABSTRACT:

As because of several advantages over to the conventional drug delivery Nanosparticulate drug delivery prepared in several means by several ways of methods have several applications in different discipline of Pharmaceutical science. There are various parameters for Evaluation of Nanoparticles as Drug Delivery system so we can justified as nanoparticulate drug delivery system: a novel approach.

Key words: Nanoparticles, NPDDSs, nanocrystals, CNT, SCF, SAS, DSC

Introduction: Nanoparticles are solid colloidal particles consisting of macromolecular substances that vary in size from 10nm to 1,000 nm. The drug of interest is dissolved, entrapped, adsorbed attached or encapsulated into the Nanoparticle matrix. Depending upon the method of preparation, Nanoparticles, nanospheres or nanocapsules can be obtained with different properties and release characteristics for the encapsulated therapeutic agent [1, 2].

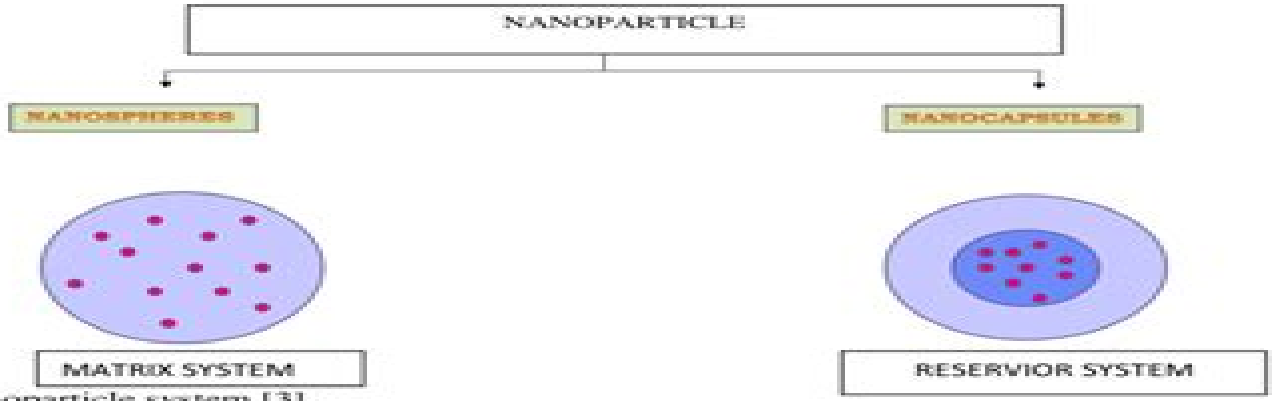

Figure:1:Nanoparticle system [3].

Nanoparticulate Drug-Delivery Systems: Nanoparticulate drug-delivery systems (NPDDSs) are being explored for the purpose of solving the challenges of drug delivery. Coming in many shapes and sizes, most carriers are less than 100 nm in diameter. NPDDSs provide methods for targeting and releasing therapeutic compounds in much defined regions. These vehicles have the potential to eliminate or at least ameliorate many problems associated with drug distribution. As many drugs have a hydrophobic component, they often suffer from problems of precipitation in high concentration, and there are many

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Novel Approaches for Drug Delivery Keservani, Raj K.,Sharma, Anil K.,Kesharwani, Rajesh Kumar,2016-07-15 Providing optimal care to patients is a primary concern in the healthcare field By utilizing the latest resources and research in biomedical applications the needs and expectations of patients can be successfully exceeded Novel Approaches for Drug Delivery is an authoritative reference source for the latest scholarly research on emerging developments within the pharmaceutical industry examining the current state and future directions of drug delivery systems Highlighting therapeutic applications predictive toxicology and risk assessment perspectives this book is ideally designed for medical practitioners pharmacists graduate level students scientists and researchers **Nanoparticulate Drug Delivery** Kinjal P. Shukla,Balkrushna K. Patel,Bhuvan P. Raval,2012-02 Any drug given in the form of parenteral dosage form like emulsion suspension solution etc it is not best suited for the long time therapy Long time drug release profile in controlled manner achieved by nano particle which is difficult by parenteral suspension or parenteral solution Nano particulate drug delivery is the novel concept now a days Nano particulate drug delivery is used to get maximum bio availability for the potent drug with minimal side effect Nano particulate drug delivery is also useful for maintaining the drug concentration in therapeutic window for the drug having narrow therapeutic window Nano particulate drug delivery having disadvantage like cost effective even though it is widely useful because of its ease of preparation and suitability with most of drugs and excipients

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 Raj 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 **Computational Drug Delivery** Pooja A. Chawla,Dilpreet Singh,Kamal Dua,Muralikrishnan

Dhanasekaran,Viney Chawla,2024-10-07 The book bridges the gap between pharmaceutics and molecular modelling at the micro meso and macro scale It covers Lipinski s rule of five nanoparticulate drug delivery computational prediction of drug solubility and ability to cross blood brain barrier computer based simulation of pharmacokinetic parameters virtual screening of mucoadhesive polymers QSPR modelling designing of 2D nanomaterials and role of principal component analysis

Novel Approaches and Strategies for Biologics, Vaccines and Cancer Therapies Manmohan Singh,Maya Salnikova,2014-12-30 Novel Approaches and Strategies for Biologics Vaccines and Cancer Therapies takes a look at the current strategies successes and challenges involved with the development of novel formulations of biologics vaccines and cancer therapy This thorough reference on the latest trends in the development of diverse modalities will appeal to a broad community of scientists students and clinicians Written by leading authors across academia and industry this book covers important topics such as unique drug delivery devices non parenteral delivery trends novel approaches to the treatment of cancer immunotherapy and more It includes real world cases and examples which highlight formulations with therapeutic proteins monoclonal antibodies peptides and biobetters as well as cases on novel vaccines formulations including evolving pathogens novel modalities of vaccines universal vaccines This book is a thorough and useful resource on the development of novel biologics vaccines and cancer therapies Provides strategies for the development of safe and efficacious novel formulations for various modalities of biologics vaccines and for cancer therapy Highlights novel cases from current clinical trials as well as marketed products Reviews overall successes and challenges in the development of novel formulations including new molecular targets for the treatment of diseases design of target specific therapies regulatory considerations individualized therapies **Novel Approaches for the Delivery of Anti-HIV Drugs** José das Neves,2020-05-20 HIV AIDS continues to be one of the most challenging individual and public health concerns of the present day According to the UNAIDS nearly 38 million individuals were living with the infection by the end of 2018 while 1 7 million new cases occurred during that same year In spite of the numerous advances in the development and delivery of antiretroviral agents both for treatment and prevention several challenges remain This book includes original research and review articles on innovative strategies and approaches for the formulation and delivery of anti HIV drugs including genetic material and other biopharmaceuticals Different local and systemic delivery strategies are addressed based on different technologies intended for oral transdermal subcutaneous vaginal or rectal administration Authored by eminent scientists in academia and nonprofit organizations involved in the development of antiretroviral drug products this collection provides useful information for all those involved in HIV AIDS treatment and prevention **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 **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 *Enhancing the Therapeutic Efficacy of Herbal Formulations* Kesharwani, Rajesh Kumar,Keservani, Raj K.,Sharma, Anil K.,2021-03-19 Novel drug delivery systems cover the approaches formulation technologies and modes for transporting any pharmaceutical compound throughout the body to safely get the desired effect A growing area of research is the use of herbal formulations for disease therapy In combining these two areas of research that of novel drug delivery systems and that of herbal formulations the usefulness of herbs is not only proved but its future applications and effectiveness are studied The move towards herbal based novel drug delivery systems can benefit society in a multitude of advantageous ways Enhancing the Therapeutic Efficacy of Herbal Formulations discusses and explores the ways of preparing herbal formulations loaded in novel drug delivery systems and the resultant improvement in efficacy of the effected drugs herbs already available on the market The chapters will highlight traditional and herbal formulations the effects of novel drug delivery systems on herbal formulations and the safe and effective preparation and effects of herbal formulations as a therapeutic intervention This book is ideal for pharmacists doctors and researchers specializing in herbal therapeutics along with practitioners researchers academicians and students interested in how herbal based novel drug delivery systems can benefit society **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 Design and Applications of Theranostic Nanomedicines Somasree Ray,Amit Kumar Nayak,2022-09-10 Design and Applications of Theranostic Nanomedicines reviews the composition and design of various nanomedicines for theranostic applications helping readers to make informed decisions when exploring novel treatments for disease This book introduces readers to theranostic nanostructures as nanomedicines beginning with a balanced look at the associated challenges costs and benefits The next section goes on to detail a range of different theranostic nanomedicines and their design from nanodispersions and nanogels to exosomes and polymeric micelles A variety of applications is covered including in the treatment of pulmonary diseases neurological disorders cancers and more The book also takes a look at the toxicological implications of nanotheranostics an important aspect of any therapy or treatment Design and Applications of Theranostic Nanomedicines provides a snapshot of the state of the art and will be of use to materials scientists biomedical engineers and pharmaceutical scientists with an interest in nanotechnology and theranostics Explores the challenges costs benefits and toxicological implications of nanotheranostics Reviews a range of nanomedicines and their design including liposomes nanohydrogels nanocochleate and more Details a variety of applications such as in drug delivery neurological disorders cardiovascular diseases and so on **Advanced Drug Delivery Systems in the Management of Cancer** Kamal Dua,Meenu Mehta,Terezinha de Jesus Andreoli Pinto,Lisa G. Pont,Kylie A. Williams,Michael Rathbone,2021-06-24 Advanced Drug Delivery Systems in the Management of Cancer discusses recent developments in nanomedicine and nano based drug delivery systems used in the treatment of cancers affecting the blood lungs brain and kidneys The research presented in this book includes international collaborations in the area of novel drug delivery for the treatment of cancer Cancer therapy remains one of the greatest challenges in modern medicine as successful treatment requires the elimination of malignant cells that are closely related to normal cells within the body Advanced drug delivery systems are carriers for a wide range of pharmacotherapies used in many applications

including cancer treatment The use of such carrier systems in cancer treatment is growing rapidly as they help overcome the limitations associated with conventional drug delivery systems Some of the conventional limitations that these advanced drug delivery systems help overcome include nonspecific targeting systemic toxicity poor oral bioavailability reduced efficacy and low therapeutic index This book begins with a brief introduction to cancer biology This is followed by an overview of the current landscape in pharmacotherapy for the cancer management The need for advanced drug delivery systems in oncology and cancer treatment is established and the systems that can be used for several specific cancers are discussed Several chapters of the book are devoted to discussing the latest technologies and advances in nanotechnology These include practical solutions on how to design a more effective nanocarrier for the drugs used in cancer therapeutics Each chapter is written with the goal of informing readers about the latest advancements in drug delivery system technologies while reinforcing understanding through various detailed tables figures and illustrations Advanced Drug Delivery Systems in the Management of Cancer is a valuable resource for anyone working in the fields of cancer biology and drug delivery whether in academia research or industry The book will be especially useful for researchers in drug formulation and drug delivery as well as for biological and translational researchers working in the field of cancer Presents an overview of the recent perspectives and challenges within the management and diagnosis of cancer Provides insights into how advanced drug delivery systems can effectively be used in the management of a wide range of cancers Includes up to date information on diagnostic methods and treatment strategies using controlled drug delivery systems Direct Nose-to-Brain Drug Delivery Chandrakantsing Pardeshi,Eliana B. Souto,2021-06-16 Direct Nose to Brain Drug Delivery provides the reader with precise knowledge about the strategies and approaches for enhanced nose to brain drug delivery It highlights the development of novel nanocarrier based drug delivery systems for targeted drug delivery to the brain microenvironments with a focus on the technological advances in the development of the novel drug delivery devices for intranasal administration including special emphasis on brain targeting through nose This book explores the various quantification parameters to assess the brain targeting efficiency following intranasal administration and includes an overview on the toxicity aspects of the various materials used to develop the direct nose to brain drug delivery vehicles and of the regulatory aspects including patents and current clinical status of the potential neurotherapeutics for the effective management of neuro ailments Technological advances in new drug delivery systems with diverse applications in pharmaceutical biomedical biomaterials and biotechnological fields are also explained This book is a crucial source that will assist the veteran scientists industrial technologists and clinical research professionals to develop new drug delivery systems and novel drug administration devices for the treatment of neuro ailments Explains the targeting approaches for enhanced brain targeting following intranasal drug administration Explores the various nanocarriers developed to date for neurotherapeutic delivery via nose to brain Discusses pharmaceutical and biomedical applications after nose to brain delivery of therapeutic pharmaceuticals and biologicals

Nanostructures for Antimicrobial Therapy Anton Ficai,Alexandru Mihai Grumezescu,2017-05-29 Nanostructures for Antimicrobial Therapy discusses the pros and cons of the use of nanostructured materials in the prevention and eradication of infections highlighting the efficient microbicidal effect of nanoparticles against antibiotic resistant pathogens and biofilms Conventional antibiotics are becoming ineffective towards microorganisms due to their widespread and often inappropriate use As a result the development of antibiotic resistance in microorganisms is increasingly being reported New approaches are needed to confront the rising issues related to infectious diseases The merging of biomaterials such as chitosan carrageenan gelatin poly lactic co glycolic acid with nanotechnology provides a promising platform for antimicrobial therapy as it provides a controlled way to target cells and induce the desired response without the adverse effects common to many traditional treatments Nanoparticles represent one of the most promising therapeutic treatments to the problem caused by infectious micro organisms resistant to traditional therapies This volume discusses this promise in detail and also discusses what challenges the greater use of nanoparticles might pose to medical professionals The unique physiochemical properties of nanoparticles combined with their growth inhibitory capacity against microbes has led to the upsurge in the research on nanoparticles as antimicrobials The importance of bactericidal nanobiomaterials study will likely increase as development of resistant strains of bacteria against most potent antibiotics continues Shows how nanoantibiotics can be used to more effectively treat disease Discusses the advantages and issues of a variety of different nanoantibiotics enabling medics to select which best meets their needs Provides a cogent summary of recent developments in this field allowing readers to quickly familiarize themselves with this topic area **NanoBioEngineering** Bhupinder Singh,2018-11-02 The objective of this book is to provide the fundamental comprehension of a broad range of topics in an integrated volume such that readership hailing from diverse disciplines can rapidly acquire the necessary background for applying it in pertinent research and development field Nanotechnology in Biology and Medicine Pradipta Ranjan Rauta,Yugal Kishore Mohanta,Debasis Nayak,2019-10-10 Nanotechnology in biology and medicine Research advancements future perspectives is focused to provide an interdisciplinary integrative overview on the developments made in nanotechnology till date along with the ongoing trends and the future prospects It presents the basics fundamental results current applications and latest achievements on nanobiotechnological researches worldwide scientific era One of the major goals of this book is to highlight the multifaceted issues on or surrounding of nanotechnology on the basis of case studies academic and theoretical articles technology transfer patents and copyrights innovation economics and policy management Moreover a large variety of nanobio analytical methods are presented as a core asset to the early career researchers This book has been designed for scientists academician students and entrepreneurs engaged in nanotechnology research and development Nonetheless it should be of interest to a variety of scientific disciplines including agriculture medicine drug and food material sciences and consumer products Features It provides a thoroughly comprehensive overview of all major aspects of nanobiotechnology considering the

technology applications and socio economic context It integrates physics biology and chemistry of nanosystems It reflects the state of the art in nanotechnological research biomedical food agriculture It presents the application of nanotechnology in biomedical field including diagnostics and therapeutics drug discovery screening and delivery It also discusses research involving gene therapy cancer nanotheranostics nano sensors lab on a chip techniques etc It provides the information about health risks of nanotechnology and potential remedies It offers a timely forum for peer reviewed research with extensive references within each chapter **Nanoparticles in Pharmacotherapy** Alexandru Mihai Grumezescu,2019-04-11 Nanoparticles in Pharmacotherapy explores the most recent findings on how nanoparticles are used in pharmacotherapy starting with their synthesis characterization and current or potential uses This book is a valuable resource of recent scientific progress that includes the most cutting edge applications of nanoparticles in pharmacotherapy It is ideal for researchers medical doctors and those in academia **Nanomaterials for Medical Diagnosis and Therapy** Challa S. S. R. Kumar,2007-04-16 Following an overview of nanotechnologies for diagnostic purposes this book goes on to look at nanoparticle based magnetic resonance molecular and other imaging applications as well as the potential roles of carbon nanotubes and bionanoparticles in biomedical applications The book s main focus is on drug delivery systems based on nonporous and nanosize materials solid lipid and polymeric nanoparticles intelligent hydrogels core shell nanoparticles and nanocapsules rounded off by a discussion of their biomedical applications The final part of this volume covers such biomedical strategies as gene therapy synthetic gene transfer vectors and targeted delivery **Nanoparticles in Life Sciences and Biomedicine** Ana Rute Neves,Salette Reis,2018-02-13 The creation of new and more efficient therapies for improving human health greatly depends on drug delivery systems Nanotechnology has emerged as a powerful strategy for the development of nanoparticles such as nanoemulsions liposomes nanocrystals and nanocomplexes applied in the diagnosis treatment or theranostics of several pathologies and diseases This book reviews the most recent research and development in nanotechnology and following a multidisciplinary approach presents new strategies for drug delivery including aspects from chemistry physics biology and imaging methodologies and exploiting several administration routes internalization pathways site specific delivery strategies and the potential cytotoxicity of nanoparticles Beginning with a description of the importance and application of nanotechnology for enhancing existing therapy the book moves on to detailing oral topical pulmonary brain cancer and anti inflammatory drug delivery approaches gene delivery approaches theranostic approaches and nanoparticle cytotoxicity Practical and user friendly it is suitable for advanced undergraduate graduate and postgraduate students of nanoscience and nanotechnology researchers in nanoscience nanotechnology chemistry biology biochemistry pharmaceutical sciences medicine and bioengineering especially those with an interest in drug delivery or theranostics and academia and university readership

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