

Recent Advances in
Nanoscience and Nanotechnology

Volume 1

Nanomedicine and Drug Delivery

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Nanomedicine And Drug Delivery Advances In Nanoscience And Nanotechnology

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Wich, Kamal Dua**



Nanomedicine And Drug Delivery Advances In Nanoscience And Nanotechnology:

Nanomedicine and Drug Delivery Mathew Sebastian, Neethu Ninan, A. K. Haghi, 2012-07-23 This forward looking book focuses on the recent advances in nanomedicine and drug delivery It outlines the extraordinary new tools that have become available in nanomedicine and presents an integrated set of perspectives that describe where we are now and where we should be headed to put nanomedicine devices into applications as quickly as possible while also considering the possible dangers of nanomedicine The book considers the full range of nanomedicinal applications that employ molecular nanotechnology inside the human body from the perspective of a future practitioner in an era of widely available nanomedicine Written by some of the most innovative minds in medicine and engineering this unique volume will help professionals understand cutting edge and futuristic areas of research that can have tremendous payoff in terms of improving human health Readers will find insightful discussions of nanostructured intelligent materials and devices that are considered technically feasible and which have a high potential to produce advances in medicine in the near future Topics include Health benefits of phytochemicals and the application of colloidal delivery systems Study of non covalent attachment of recombinant targeting proteins to polymer modified Adenoviral gene delivery vectors The role of nanoparticles as adjuvants for mucosal vaccine delivery Poly amido amine s as delivery systems for biologically active substances Antimicrobial activity of silver nanoparticles Nanomedicine in the use of cancer treatment Dendrimers capsules based on lipid vesicles for drug delivery Many other recent achievements

The Nanotechnology Revolution Dale A. Stirling, 2018-01-17 Nanotechnology is changing the world in a very big way but at the atomic and sub atomic level Although the roots of nanotechnology can be traced back to more than a century ago the last three decades have witnessed an explosion of nano based technologies and products This reference work examines the history current status and future directions of nanotechnology through an exhaustive search of the technical and scientific literature The more than 4000 bibliographic citations it includes are carefully organized into core subject areas and a geographic and subject index allows readers to quickly locate documents of interest Although a sense of the global reach and interest in nanotechnology can be gleaned from the reference sections of countless journal articles conference papers and books this is the only reference work providing an in depth global perspective that is ready made for nanotechnology professionals and those interested in learning more about all things nanotechnology Despite the abundance of online resources there is still an urgent need for well researched well presented concise and thematically organized reference works Instead of relying on wiki pages citation aggregators and related websites the author searched the databases and databanks of scholarly literature search providers such as EBSCO ProQuest PUBMED STN International and Thomson Reuters In addition he used select serials related databases to account for pertinent documents from countries in which English is not the primary national language i e China Online Journals e periodica J STAGE and SciELO Brazil among others

Advanced Pharmaceutical and Herbal

Nanoscience for Targeted Drug Delivery Systems Part I Swarnlata Saraf,Ram Kumar Sahu,Vivek Dave,2022-05-26 This 2 part reference informs readers about the application of drug delivery technologies to herbal medicines Chapters cover a broad range of major topics on the subject of targeted drug delivery systems These topics include the application of drug delivery systems for herbal nanomedicines drug development issues emerging technologies adaptations for clinical use market prospects and challenges of industrial commercialization Chapters have been contributed by several experts in pharmaceutical chemistry and blend theoretical knowledge with practical aspects of drug delivery Part I covers the following topics Introduction to nanotechnology and herbal based nanoparticulate systems Nucleic acid based therapeutic drug delivery systems Herbal bioactives a booster dose for advanced pharmaceutical nanoscience Pulmonary nano drug delivery systems Application of nano drug delivery systems in improving the therapeutic efficacy of bioactive natural products PEGylated liposomes Insulin liposomes Aquasomes a promising novel drug carrier Nanoparticle aided herbal drugs therapeutic implications on cholinergic dysfunction with relevance to Alzheimer s disease Vitamins based nanomedicine approach Recent advances in tumor targeting drug delivery systems fundamentals of advanced pharmaceutical nanoscience Niosomes a revolutionary progress in the field of pharmaceutical sciences Infectious diseases pharmaceutical nanoscience for targeted drug delivery This reference is a valuable resource for scholars that creates awareness of novel drug delivery systems as well as their promising applications in drug targeting and nanotherapeutics for specific diseases **Advanced**

Pharmaceutical and Herbal Nanoscience for Targeted Drug Delivery Systems Part II Swarnlata Saraf,Ram Kumar Sahu,Vivek Dave,2022-05-30 This 2 part reference informs readers about the application of drug delivery technologies to herbal medicines Chapters cover a broad range of major topics on the subject of targeted drug delivery systems These topics include the application of drug delivery systems for herbal nanomedicines drug development issues emerging technologies adaptations for clinical use market prospects and challenges of industrial commercialization Chapters have been contributed by several experts in pharmaceutical chemistry and blend theoretical knowledge with practical aspects of drug delivery Part II covers the following topics Pharmaceutical nanosciences and their application in the delivery of various phytoconstituents Design of cosmeceutical drug delivery systems the role of nanotechnology in cosmeceuticals Transfersomes a novel vesicular transdermal delivery system Self nano micro emulsified drug delivery systems Phytosomes The role of nanomedicines in ocular drug delivery systems Colloidosomes as an efficient novel drug delivery system an update Herbal nanoscience challenges and regulatory perspectives Vitamins based nanomedicine approach Dendrimers a versatile nanoplatform for advanced targeting and bioactive s delivery Targeted drug delivery systems for cells and cell organelles Liposomes for herbal drug delivery AI in pharmacy herbal medicine and drug delivery sci fi or reality This reference is a valuable resource for scholars that creates awareness of novel drug delivery systems as well as their promising applications in drug targeting and nanotherapeutics for specific diseases **Nanomaterials for Drug Delivery and Therapy** Alexandru Mihai

Grumezescu,2019-03-14 Nanomaterials for Drug Delivery and Therapy presents recent advances in the field of nanobiomaterials and their important applications in drug delivery therapy and engineering The book offers pharmaceutical perspectives exploring the development of nanobiomaterials and their interaction with the human body Chapters show how nanomaterials are used in treatments including neurology dentistry and cancer therapy Authored by a range of contributors from global institutions this book offers a broad international perspective on how nanotechnology based advances are leading to novel drug delivery and treatment solutions It is a valuable research resource that will help both practicing medics and researchers in pharmaceutical science and nanomedicine learn more on how nanotechnology is improving treatments Assesses the opportunities and challenges of nanotechnology based drug delivery systems Explores how nanotechnology is being used to create more efficient drug delivery systems Discusses which nanomaterials make the best drug carriers

Nanobiotechnology in Diagnosis, Drug Delivery and Treatment Mahendra Rai,Mehdi Razzaghi-Abyaneh,Avinash P. Ingle,2020-11-10 Presents nanobiotechnology in drug delivery and disease management Featuring contributions from noted experts in the field this book highlights recent advances in the nano based drug delivery systems It also covers the diagnosis and role of various nanomaterials in the management of infectious diseases and non infectious disorders such as cancers and other malignancies and their role in future medicine Nanobiotechnology in Diagnosis Drug Delivery and Treatment starts by introducing how nanotechnology has revolutionized drug delivery diagnosis and treatments of diseases It then focuses on the role of various nanocomposites in diagnosis drug delivery and treatment of diseases like cancer Alzheimer s disease diabetes and many others Next it discusses the application of a variety of nanomaterials in the diagnosis and management of gastrointestinal tract disorders The book explains the concept of nanotheranostics in detail and its role in effective monitoring of drug response targeted drug delivery enhanced drug accumulation in the target tissues sustained as well as triggered release of drugs and reduction in adverse effects Other chapters cover aptamer incorporated nanoparticle systems magnetic nanoparticles theranostics and vaccines toxicological concerns of nanomaterials used in nanomedicine and more Provides a concise overview of state of the art nanomaterials and their application like drug delivery in infectious diseases and non infectious disorders Highlights recent advances in the nano based drug delivery systems and role of various nanomaterials Introduces nano based sensors which detect various pathogens Covers the use of nanodevices in diagnostics and theranostics Nanobiotechnology in Diagnosis Drug Delivery and Treatment is an ideal book for researchers and scientists working in various disciplines such as microbiology biotechnology nanotechnology pharmaceutical biotechnology pharmacology pharmaceutics and nanomedicine *Nanoscience and Nanotechnology for Human Health* Bert Müller,Marcel Van de Voorde,2017-04-10 Unique in combining the expertise of practitioners from university hospitals and that of academic researchers this timely monograph presents selected topics catering specifically to the needs and interests of natural scientists and engineers as well as physicians who are concerned with developing nanotechnology based treatments to

improve human health To this end the book cover the materials aspects of nanomedicine such as the hierarchical structure of biological materials the imaging of hard and soft tissues and in particular concrete examples of nanotechnology based approaches in modern medical treatments The whole is rounded off by a discussion of the opportunities and risks of using nanotechnology and nanomaterials in medicine backed by case studies taken from real life Application of Nanotechnology in Drug Delivery Rodolph Donovan,2016-04 Continuing improvement in the pharmacological and therapeutic properties of drugs is driving the revolution in novel drug delivery systems In fact a wide spectrum of therapeutic nanocarriers has been extensively investigated to address this emerging need Nanotechnology involves the engineering of functional systems at the molecular scale Recent years have witnessed unprecedented growth of research and applications in the area of nanoscience and nanotechnology There is increasing optimism that nanotechnology as applied to medicine will bring significant advances in the diagnosis and treatment of disease Anticipated applications in medicine include drug delivery both in vitro and in vivo diagnostics nutraceuticals and production of improved biocompatible materials As such nanomaterials are poised to take advantage of existing cellular machinery to facilitate the delivery of drugs The use of nanotechnology in medicine and more specifically drug delivery is set to spread rapidly Currently many substances are under investigation for drug delivery and more specifically for cancer therapy nanoparticles NPs containing encapsulated dispersed absorbed or conjugated drugs have unique characteristics that can lead to enhanced performance in a variety of dosage forms When formulated correctly drug particles are resistant to settling and can have higher saturation solubility rapid dissolution and enhanced adhesion to biological surfaces thereby providing rapid onset of therapeutic action and improved bioavailability In addition the vast majority of molecules in a nanostructure reside at the particle surface which maximizes the loading and delivery of cargos such as therapeutic drugs proteins and polynucleotides to targeted cells and tissues Highly efficient drug delivery based on nanomaterials could potentially reduce the drug dose needed to achieve therapeutic benefit which in turn would lower the cost and or reduce the side effects associated with particular drugs This book Application of Nanotechnology in Drug Delivery deals with the new and ongoing potentialities of nanotechnology application of drug delivery In addition it discusses advances in design optimization and adaptation of gene delivery systems for the treatment of cancer cardiovascular and infectious diseases and considers assessment and review procedures involved in the development of gene based pharmaceuticals **Dendrimers in Medical Science** Zahoor Ahmad Parry,Rajesh Pandey,2017-05-25 This valuable new book offers a new perspective on dendrimers that bridges the gap between basic research and applied nanomedicine It explores the ultimate effectiveness of dendrimers in theranostics a promising field that combines therapeutics and diagnostics into single multifunctional formulations used to affect therapy or treatment of a disease state The authors examine the potential uses of dendrimers which have proven their capabilities in local systemic drug delivery physical stabilization of the drug solubility enhancement of the poorly soluble drugs and gene delivery *Nano Medicine and Nano*

Safety Malay K. Das, Yashwant V. Pathak, 2020-12-09 This book reviews the application of Nanobiotechnology in the development of Nanomedicine while also discussing the latest trends and challenges in the clinical translation of Nanomedicine. Nanomedicine refers to the application of Nanotechnology to medicine and holds tremendous potential for achieving improved efficiency, bioavailability, dose response, personalized medicine, and enhanced safety as compared to conventional medicines. The book first introduces readers to the basic concepts of Nanomedicine and to technological advances in and applications of Nanotechnology in treatment, diagnosis, monitoring, and drug delivery. In turn, it reviews the current status of multi-functionalization strategies for using Nanoparticles in the targeted delivery of therapeutic agents. The book's third and final section focuses on the regulatory and safety challenges posed by Nanomedicine, including industry and regulatory agencies' efforts to address them. *Handbook of Research on Nanoscience, Nanotechnology, and Advanced Materials* Bououdina, Mohamed, Davim, J. Paulo, 2014-03-31 The burgeoning field of nanotechnology has led to many recent technological innovations and discoveries. Understanding the impact of these technologies on business, science, and industry is an important first step in developing applications for a variety of settings and contexts. *Handbook of Research on Nanoscience, Nanotechnology, and Advanced Materials* presents a detailed analysis of current experimental and theoretical approaches surrounding nanomaterials science. With applications in fields such as biomedicine, renewable energy, and synthetic materials, the research in this book will provide experimentalists, professionals, students, and academics with an in-depth understanding of nanoscience and its impact on modern technology. *Drug Delivery Systems for Metabolic Disorders* Harish Dureja, Narasimha Murthy, Peter Wich, Kamal Dua, 2022-08-26 *Drug Delivery Systems for Metabolic Disorders* presents the most recent developments on the targeted delivery of drugs to deal with metabolic disorders in a safe, compliant, and continuous way. The book covers recent developments in advanced drug delivery systems in various metabolic disorders, including disturbances in protein, lipid, carbohydrate, and hormone metabolism, and lysosomal and mitochondrial disorders. It provides a brief introduction to metabolic disorders along with a focus on the current landscape and trends in understanding disease pathology using different *in vitro* and *in vivo* models required for clinical applications and developments of new therapeutics. Each subsequent chapter covers drug delivery systems dedicated to metabolic diseases caused by disturbances in protein, lipid, carbohydrate, and hormone metabolism. Then it moves on to cover lysosomal storage disorders and applications of phytopharmaceuticals in this context. This is the perfect reference for researchers in pharmaceutical science who are interested in developing new treatments for metabolic diseases. Offers comprehensive coverage of drug delivery to treat metabolic diseases. Provides insights into how advanced drug delivery systems can be effectively used for the management of various types of metabolic disorders. Includes the most recent research on diagnostic methods and treatment strategies using controlled drug delivery systems. *Nanochemistry* Ashutosh Sharma, Goldie Oza, 2023-02-24 This book encompasses the fundamental concepts of Nanochemistry that involve the self-assembly of nanostructures, surface

stabilization and functionalization of nanoparticles It s a review of the work of world renowned scientists and is the first of its kind that gives a detailed fundamental understanding of physical chemical and biological methods of nanoparticle synthesis There is a comprehension of different characterization techniques of nanoparticles This book for the first time explains applications of such nanochemicals in nanomedicine nanoimmunomedicine lab on a chip organ on a chip bioimplants cyborgs hydrogen storage electrochemical splitting of water and construction industries

Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials Munmaya Mishra,2017-08-16 The Concise Encyclopedia of Biomedical Polymers and Polymeric Biomaterials presents new and selected content from the 11 volume Biomedical Polymers and Polymeric Biomaterials Encyclopedia The carefully culled content includes groundbreaking work from the earlier published work as well as exclusive online material added since its publication in print A diverse and global team of renowned scientists provide cutting edge information concerning polymers and polymeric biomaterials Acknowledging the evolving nature of the field the encyclopedia also features newly added content in areas such as tissue engineering tissue repair and reconstruction and biomimetic materials

Microbiome Stimulants for Crops James F. White,Ajay Kumar,Samir Droby,2021-04-17 Microbiome Stimulants for Crops Mechanisms and Applications provides the latest developments in the real world development and application of these crop management alternatives in a cost effective yield protective way Sections address questions of research development and application with insights into recent legislative efforts in Europe and the United States The book includes valuable information regarding mechanisms and the practical information needed to support the growing microbial inoculant and biostimulant industry thus helping focus scientific research in new directions Provides methods for finding and testing endophytic and growth promotional microbes Explains the mechanisms of microbes and other biostimulant function in promoting plant growth Evaluates methods for treatments of plants with microbes and microbiome stimulants Identifies areas for new research

Recent Advances in Nanomedicines Mediated Wound Healing Prashant Kesharwani,2025-02-21 Recent Advances in Nanomedicines Mediated Wound Healing presents an overview of various nanotechnology based drug delivery systems explored widely for wound healing The book provides a comprehensive review of thriving strategies used for wound healing and thoroughly describes the most recent developments in emerging modern drug delivery systems with a focus on nanotechnology It serves as a complete package for a holistic understanding of molecular pathways conventional therapy and novel nanocarrier mediated drug delivery for wound healing while also exploring advanced strategies like siRNA and aptamer mediated approaches and nanomedicines to treat diabetic and full thickness wounds This book will help researchers undergraduates graduate students and experts in nanotechnology drug delivery and pharmaceutical related disciplines design and develop novel drug delivery systems and devices for wound healing that take advantage of recent advances in nanomedical technologies Describes the complete journey of nanomedicine based drug delivery approaches in wound healing from fundamental applications to more recent applications Introduces in

depth novel applications of nanotechnology based approaches in wound healing Provides information about various approaches for the diagnosis and treatment of wound healing using the latest advancement in cutting edge nanomedical technologies

Advanced and Modern Approaches for Drug Delivery Amit Kumar Nayak,Md Saquib Hasnain,Bibek Laha,Sabyasachi Maiti,2023-07-29 Advanced and Modern Approaches for Drug Delivery explores novel approaches currently used for drug delivery including the must up to date techniques and technology The approaches discussed allow pharmaceutical scientists to design effective drug delivery systems or devices for the management and treatment of numerous diseases and conditions Detailed information on a wide variety of subjects including dendrimers lipid nanostructures solid lipid nanoparticles stimuli responsive smart systems self assembled protein drug nanoparticles nanoconjugate formulations nanofibers iontophoretic systems microneedle systems ultra sound triggered systems targeted carrier based intracellular delivery systems resealed erythrocyte based systems 3 D printing tool site specific monoclonal antibodies and bio inspired systems are all comprehensively discussed With contributions from those in academia and industry this book is an excellent reference for all those needing to understand drug delivery systems Provides thorough insights into the most up to date approaches and technologies for drug delivery and therapeutics Discusses possible future approaches Includes perspectives from industry and academia

Biocomposite Nanomaterials and their Applications Jayachandran Venkatesan,2024-11-28 This contributed book is focused on the use of nanomaterials in biomedical applications particularly in the development of pharmaceuticals nutraceuticals and cosmeceuticals It covers a wide range of nanomaterials including polymers metals and carbon based materials and discusses their incorporation into polymeric biocomposites to create materials with unique properties The book overviews the various applications of these nanocomposites including tissue engineering drug delivery biosensors and packaging It is a useful resource for research scholars graduate students academics and pharmaceutical companies working in the fields of material science and nanotechnology

Multifunctional Pharmaceutical Nanocarriers Vladimir Torchilin,2008-03-21 The editors have brought together leading experts in multifunctional nanopharmaceuticals to provide cutting edge information a critical overview of the field and analysis of current and potential future developments to speed the subject s rapid development

Advanced Materials and Nano Systems: Theory and Experiment - Part 2 Dibya Prakash Rai,2022-09-30 The discovery of new materials and the manipulation of their exotic properties for device fabrication is crucial for advancing technology Nanoscience and the creation of nanomaterials have taken materials science and electronics to new heights for the benefit of mankind Advanced Materials and Nanosystems Theory and Experiment covers several topics of nanoscience research The compiled chapters aim to update students teachers and scientists by highlighting modern developments in materials science theory and experiments The significant role of new materials in future technology is also demonstrated The book serves as a reference for curriculum development in technical institutions and research programs in the field of physics chemistry and

applied areas of science like materials science chemical engineering and electronics This part covers 12 topics in these areas Recent advancements in nanotechnology a human health Perspective An exploratory study on characteristics of SWIRL of AlGaAs GaAs in advanced bio based nanotechnological systems Electronic structure of the half Heusler ScAuSn LuAuSn and their superlattice Recent trends in nanosystems Improvement of performance of single and multicrystalline silicon solar cell using low temperature surface passivation layer and antireflection coating Advanced materials and nanosystems Effect of nanostructure materials on optical properties of some rare earth ions doped in silica matrix Nd₂Fe₁₄B and SmCO₅ a permanent magnet for magnetic data storage and data transfer technology Visible light induced photocatalytic activity of MWCNTS decorated sulfide based nano photocatalysts Organic solar cells Neodymium doped lithium borosilicate glasses Comprehensive quantum mechanical study of structural features reactivity molecular properties and wave function based characteristics of capmatinib

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