

Nanostructure Science and Technology

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# Nanomedicine

Principles of Nanomedicine



Springer

# Nanomedicine Principles And Perspectives Nanostructure Science And Technology

**Raj K. Keservani, Rajesh Kumar  
Kesharwani, Anil K. Sharma**



## **Nanomedicine Principles And Perspectives Nanostructure Science And Technology:**

Nanomedicine Yi Ge, Songjun Li, Shenqi Wang, Richard Moore, 2014-12-01 Increasing demand for and awareness of the applications of nanotechnology in medicine has resulted in the emergence of a new fast growing multidisciplinary area nanomedicine This book offers comprehensive knowledge of and diverse perspectives on nanomedicine through two independent volumes It aims to bridge the gap between nanotechnology and medicine through contributions by world renowned experts from wide range of backgrounds including academia industry professional consultancy and government agencies Each contribution integrates knowledge from a wide range of areas to present the fundamentals of new applications and products of nanomedicine as well as an outlook for the future This book can well serve as a reference and guide for students academics researchers scientists engineers clinicians government researchers and healthcare professionals

*Advances in Novel Formulations for Drug Delivery* Raj K. Keservani, Rajesh Kumar Kesharwani, Anil K. Sharma, 2023-03-14 ADVANCES in NOVEL FORMULATIONS for DRUG DELIVERY The 27 chapters describe novel strategies for drug nutraceutical delivery and embrace the development of formulations with herbal ingredients while also highlighting disease therapeutics Drug delivery technology has witnessed many advancements purported to cater to the customized needs of its ultimate beneficiaries the patients Today dosage forms are not confined to conventional tablets capsules or injectables but have evolved to cover novel drug carriers such as particulates vesicles and many others Nanotechnological advancements have played a major role in this paradigm shift in ways of delivering active pharmaceutical ingredients A new dimension in the use of food as medicine has also gained prominence in recent years A portmanteau of nutrition and pharmaceuticals is nutraceuticals also known as functional foods and dietary supplements The technologies which were earlier included in drug delivery have been attempted for the delivery of nutraceuticals as well Herbal actives have received increased attention due to their low risk to benefit ratio The field of drug delivery is quite dynamic in nature as witnessed by its evolution from conventional dosage forms to nanotechnology assisted drug products A variety of formulations via different drug delivery routes have been developed to treat cure mitigate diseases or disorders This book comprising of 27 chapters is a thorough compilation of information relevant to drug delivery systems with an emphasis on products based on nanotechnology Audience Researchers scientists industry professionals formulators and product developers regulatory agencies in a variety of settings including novel drug delivery research laboratories pharmaceutical and pharmacy industries biomedical sciences food and nutraceuticals manufacturers and nanotechnology

**Electrochemical Aptamer-Based Biosensors for Disease Biomarkers** Masoud Negahdary, 2025-07-01 Electrochemical Aptamer Based Biosensors for Disease Biomarkers comprehensively presents the principles of designing aptamer based biosensors for disease detection using biomarkers The book considers the latest research and discusses the application of aptasensors design against different diseases In addition sections explore innovative types of electrochemical diagnostic techniques used based on

various advanced elements and assemblies such as nanomaterials and signal transducers This is an effective practical guide for researchers to use as a reference for the development of their own laboratory research Covers the collection classification and comparison of recent research in the design of electrochemical aptasensors for the diagnosis of various diseases Presents reviews and compares all applied detection mechanisms in developed aptasensors Provides a practical guide for designing electrochemical aptasensors and showing how to select the optimal components in their design

**Nanotechnology in Therapeutics** Costas Demetzos, 2024-10-28 Nanotechnology in Therapeutics Comprehensive reference delivering a framework to develop and assess nanosystems that provide unique advantages in biomedical applications Nanotechnology in Therapeutics explores the idea that by studying in depth the behavior of living organisms especially the functionality of their cell membranes we can develop and evaluate innovative bio inspired nanosystems that are able to deliver small molecules biomolecules like proteins peptides and other genetic material in terms of the production of new therapies and vaccines The main concept promoted in this book is an integrated approach for producing new medicines following the nanotoxicity biotoxicity regulatory and ethical guidelines which are also covered in the book The book is divided into three parts Part A provides an introduction and a historical overview of nanotechnology Part B delves deeper into issues relating to lipid and polymeric nanostructures in medicine Part C presents the regulatory landscape around nanotechnology and nanomedicine while highlighting the need to keep an eye on emerging technologies such as artificial intelligence and machine learning Overall this book opens up biomedical applications for previously challenging drugs and drug targets Written by a highly qualified professor with significant pertinent research experience Nanotechnology in Therapeutics includes discussion on Eukaryotic cell membranes their structural properties and the thermodynamic payload of their lipid bilayers The DLVO Derjaguin Landau Verwey and Overbeek theory as a scientific tool for studying the stability and the behavior of nanoparticles Liposomes lipid nanoparticles and solid lipid nanoparticles as well as polymeric nanoparticles like micelles polymersomes and dendrimers Issues in the approval process of nanomedicines by the regulatory agencies such as complexity chaos and nonlinear dynamics With comprehensive coverage of novel concepts that have the potential to transform how new medicines are designed and developed Nanotechnology in Therapeutics is an essential resource on the subject for chemists in industry as well as biomedical and pharmaceutical engineers [Metrology and Standardization for Nanotechnology](#) Elisabeth Mansfield, Debra L. Kaiser, Daisuke Fujita, Marcel Van de Voorde, 2017-01-20 For the promotion of global trading and the reduction of potential risks the role of international standardization of nanotechnologies has become more and more important This book gives an overview of the current status of nanotechnology including the importance of metrology and characterization at the nanoscale international standardization of nanotechnology and industrial innovation of nano enabled products First the field of nanometrology nanomaterial standardization and nanomaterial innovation is introduced Second major concepts in analytical measurements are given in

order to provide a basis for the reliable and reproducible characterization of nanomaterials The role of standards organizations are presented and finally an overview of risk management and the commercial impact of metrology and standardization for industrial innovations      **The British National Bibliography** Arthur James Wells,2009

**Nanomaterials in Bionanotechnology** Ravindra Pratap Singh,Kshitij RB Singh,2021-08-17 Nanomaterials in Bionanotechnology Fundamentals and Applications offers a comprehensive treatment of nanomaterials in biotechnology from fundamentals to applications along with their prospects This book explains the basics of nanomaterial properties synthesis biological synthesis and chemistry and demonstrates how to use nanomaterials to overcome problems in agricultural environmental and biomedical applications Features Covers nanomaterials for environmental analysis and monitoring for heavy metals chemical toxins and water pollutant detection Describes nanomaterials based biosensors and instrumentation and use in disease diagnosis and therapeutics Discusses nanomaterials for food processing and packaging and agricultural waste management Identifies challenges in nanomaterials based technology and how to solve them This work serves as a reference for industry professionals advanced students and researchers working in the discipline of bionanotechnology

*Nanopharmaceutical Advanced Delivery Systems* Vivek Dave,Nikita Gupta,Srija Sur,2020-12-29 The book provides a single volume covering detailed descriptions about various delivery systems their principles and how these are put in use for the treatment of multiple diseases It is divided into four sections where the first section deals with the introduction and importance of novel drug delivery system The second section deals with the most advanced drug delivery systems like microbubbles dendrimers lipid based nanoparticles nanofibers microemulsions etc describing the major principles and techniques of the preparations of the drug delivery systems The third section elaborates on the treatments of diverse diseases like cancer topical diseases tuberculosis etc The fourth and final section provides a brief informative description about the regulatory aspects of novel drug delivery system that is followed in various countries      *Perspectives In Micro-And Nanotechnology For Biomedical Applications* Juliana M Chan,Chenjie Xu,2016-07-28 Perspectives in Micro and Nanotechnology for Biomedical Applications is an exciting new book that takes readers inside the fast paced world of biomedical sciences fueled by advancements in nanotechnology polymer chemistry and pharmacology Guided by biotech researchers Chenjie Xu and Juliana Chan an international ensemble of leading experts in the field cover topics ranging from classical chemical tools to nanoparticles as imaging probes and drug carriers and combinatorial screens for new lipids and polymers At the microscale it discusses advancements in hydrogels and platform technologies such as cell ghosts This book provides a broad perspective into the basic principles and applications of today s most promising micro and nanotechnologies and is an up to date reference book for researchers It is also suitable for undergraduate and graduate students patent lawyers and investors who are interested in the latest innovations taking place in the biomedical sciences many of which may dramatically improve the lives of millions of people      **Nanomedicine and Nanobiotechnology** Stergios

Logothetidis,2012-01-15 This book presents the 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 on the in vitro compatibility assessment of nanostructured materials implemented in the medical field by the combination of classical biological protocols and advanced non destructive nano precision techniques with special emphasis on the topographical surface energy optical and electrical properties Materials in the physical form of nanoparticles nanotubes and thin films are addressed in terms of their toxicity The different pillars of the Nanomedicine field are also highlighted The book takes an interdisciplinary approach of medicine biology pharmacy physics chemistry engineering nanotechnology and materials science The international group of authors specifically chosen for their distinguished expertise belong to the academic and industrial world in order to provide a broader perspective It appeals to researchers and graduate students

**Nanomedicine for Drug Delivery and Therapeutics** Ajay Kumar Mishra,2013-02-01 This book describes a broad area of nanomedicine which involves mainly applications diseases and diagnostics The comprehensive coverage provides researchers academics and health specialists with a great tool that includes techniques applicable to various uses

Medical Nanotechnology and Nanomedicine Harry F. Tibbals,2017-12-19 Considering the fluid nature of nano breakthroughs and the delicate balance between benefits and consequences as they apply to medicine readers at all levels require a practical understandable base of information about these developments to take greatest advantage of them Medical Nanotechnology and Nanomedicine meets that need by introducing non experts to nanomedicine and its evolving organizational infrastructure This practical reference investigates the impact of nanotechnology on applications in medicine and biomedical sciences and the broader societal and economic effects Eschewing technological details it focuses on enhancing awareness of the business regulatory and administrative aspects of medical applications It gives readers a critical balanced and realistic evaluation of existing nanomedicine developments and future prospects an ideal foundation upon which to plan and make decisions Covers the use of nanotechnology in medical applications including imaging diagnosis and monitoring drug delivery systems surgery tissue regeneration and prosthetics Part of the Perspectives in Nanotechnology series which contains broader coverage of the societal implications of nanotechnology this book can be used as a standalone reference Organized by historical perspective current status and future prospects this powerful book Explores background definitions and terms and recent trends and forces in nanomedicine Surveys the landscape of nanomedicine in government academia and the private sector Reviews projected future directions capabilities sustainability and equity of nanomedicine and choices to be made regarding its use Includes graphical illustrations references and keywords to reinforce concepts and aid further research In its assessment of alternative and sometimes conflicting concepts proposed for the application of nanotechnology to medicine this book surveys major initiatives and the work of leading labs and innovators It uses informative examples and case summaries to illustrate proven accomplishments and imagined possibilities in research and

development      **Nanomedicine** Alain L. Fymat, 2021-10-28 Nanotechnology includes diverse fields of engineering and science and may be able to create many new materials and devices with a vast range of applications in nanomedicine nanoelectronics biomaterials energy production consumer products etc The effects of artificial nanomaterials on the human body have long been known as many practical uses of nanoparticles go back a long time but medical applications are of special relevance As a medical application of nanotechnology nanomedicine is focused on harnessing nanotechnology to effectively diagnose treat and prevent various diseases It aims to efficiently deliver medications that have been reduced minimized to the necessary dosages and in the places where they are needed it results in improved outcomes with less medication and less or no adverse reactions or side effects In 1995 approval of the very first nano therapeutic product Doxil is generally viewed as the dawn of nanomedicine for human use In 2021 the COVID 19 pandemic created an urgent need for an effective vaccine Nanotechnology played an important role in enabling the development of messenger RNA vaccines that have since been administered worldwide and may provide a novel platform for vaccine designs Biological processes including the ones necessary for life and those that lead to cancer occur at the nanoscale Accordingly nanobiotechnology provides us with the opportunity to study and manipulate macromolecules in real time during the earliest stages of cancer progression the possibility of rapidly and sensitively detecting cancer related molecules enabling us to detect molecular changes even when they occur only in a small percentage of cells and the potential to generate entirely novel and highly effective therapeutic agents It also offers important benefits for diagnosis by providing new molecular contrast agents and materials to enable an earlier and more accurate initial diagnosis as well as continual monitoring of cancer patients during their treatment It offers the means to target chemotherapies directly and selectively to cancerous cells and neoplasms guide in surgical resection of tumors and enhance the therapeutic efficacy of radiation based and other treatment modalities all of which add up to a decreased risk to the patient and an increased probability of survival Another promising application of nanomedicine principles is in clinical neuroscience particularly in the treatment of neurological disorders epilepsy Parkinson's disease Alzheimer's disease etc While nanomedicine has not yet fully delivered on its promises it remains an important new vista in medicine in the several instances covered in this book      **Selected Topics in Nanomedicine** Thomas Ming Swi Chang, 2013-09-16 Nanomedicine consists of the use of nanotechnology and nanobiotechnology in medicine There have been extensive developments in the area of nanomedicine The scope of this book is first to discuss the origin of nanomedicine Following this instead of a general overview of the whole area 24 chapters on selected topics of important areas are described in detail Authors are selected from around the world to give a representative and international view of the activities in the area of nanomedicine      **21st Century Nanoscience - A Handbook** Klaus D. Sattler, 2020-04-22 This 21st Century Nanoscience Handbook will be the most comprehensive up to date large reference work for the field of nanoscience Handbook of Nanophysics by the same editor published in the fall of 2010 and was embraced as the first comprehensive

reference to consider both fundamental and applied aspects of nanophysics This follow up project has been conceived as a necessary expansion and full update that considers the significant advances made in the field since 2010 It goes well beyond the physics as warranted by recent developments in the field This eighth volume in a ten volume set covers nanopharmaceuticals nanomedicine and food nanoscience Key Features Provides the most comprehensive up to date large reference work for the field Chapters written by international experts in the field Emphasises presentation and real results and applications This handbook distinguishes itself from other works by its breadth of coverage readability and timely topics The intended readership is very broad from students and instructors to engineers physicists chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanophysics extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond

**Nanoparticle Therapeutics** Prashant Kesharwani, Kamalinder K. Singh, 2021-11-06 Nanoparticle therapeutics Production Technologies Types of Nanoparticles and Regulatory Aspects employs unique principles for applications in cell based therapeutics diagnostics and mechanistics for the study of organ physiology disease etiology and drug screening of advanced nanoparticles and nanomaterials The book focuses on the extrapolation of bioengineering tools in the domain of nanotechnology and nanoparticles therapeutics fabrication characterization and drug delivery aspects It acquaints scientists and researchers on the experiential and experimental aspects of nanoparticles and nanotechnology to equip their rational application in various fields especially in differential diagnoses and in the treatment of diverse diseased states This complete resource provides a holistic understanding of the principle behind formation characterization applications regulations and toxicity of nanoparticles employing myriad principles of nanotechnology Investigators pharmaceutical researchers and advanced students working on technology advancement in the areas of designing targeted therapies nanoscale imaging systems and diagnostic modalities in human diseases where nanoparticles can be used as a critical tool for technology advancement in drug delivery systems will find this book useful Brings together the novel applications of nanotechnology in biological fields Explores perspectives on technologies through highly organized tables illustrative figures and flow charts Addresses key multidisciplinary challenges faced by nanotechnologists to foster collaboration among biologists chemists physicists engineers and clinicians

*Nanomedicine* Vijay K. Varadan, LinFeng Chen, Jining Xie, 2008-11-20 Recent advances in nanomedicine offer ground breaking methods for the prevention diagnosis and treatment of some fatal diseases Amongst the most promising nanomaterials being developed are magnetic nanomaterials including magnetic nanoparticles and magnetic nanosensors Some nanomagnetic medical applications are already commercially available with more set to be released over the coming years Nanomedicine Design and Applications of Magnetic Nanomaterials Nanosensors and



Nanosystems presents a comprehensive overview of the biomedical applications of various types of functional magnetic materials. The book provides an introduction to magnetic nanomaterials before systematically discussing the individual materials, their physical and chemical principles, fabrication techniques, and biomedical applications. This methodical approach allows this book to be used both as a textbook for beginners to the subject and as a convenient reference for professionals in the field. Discusses magnetic nanoparticles including nanowires, nanotubes, zero-dimensional nanospheres, and naturally existing magnetosomes. Examines intrinsically smart magnetic materials and describes their part in the development of biomedical sensors and biochips, which are often used in biomedical tests. Integrates the research efforts of different disciplines from materials sciences to biology and electrical engineering to medicine in order to provide a unified and authoritative guide to a richly interdisciplinary field. This volume is of great appeal to students and researchers in the fields of electrical and electronic engineering, biomedical engineering, nanotechnology, materials science, physics, medicine, and biology. It is also of interest to practising engineers, materials scientists, chemists, and research medical doctors involved in the development of magnetic materials and structures for biomedical applications. Light-Responsive Nanostructured Systems for Applications in Nanomedicine

Salvatore Sortino, 2015-11-20. The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research. The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology, medicine, and materials science. The goal of each thematic volume is to give the non-specialist reader, whether in academia or industry, a comprehensive insight into an area where new research is emerging, which is of interest to a larger scientific audience. Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole. The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed. The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual, concentrating on the methodological thinking that will allow the non-specialist reader to understand the information presented. Contributions also offer an outlook on potential future developments in the field. Review articles for the individual volumes are invited by the volume editors. Readership: research chemists at universities or in industry, graduate students. **Introduction to**

**Nanomaterials in Medicine** Mohammad Rabiee, Navid Rabiee, Reza Salarian, Ghazal Rabiee, 2019-03-21. Advancement in the field of nanotechnology has revolutionized the field of medicines and pharmaceuticals in the twentieth century. The proper use of nanomaterials in medical applications requires a proper understanding of these compounds. This correct understanding beyond the physical and chemical properties must also have the correct logic of use. In other words, the strategic use of nanomaterials with applicable perspective can also help to advance research, but if we go forward with the current research perspective that leads to the expansion of inapplicable researches, the intrinsic importance of using these nanomaterials is eliminated. This book, considering the importance of nanomaterials and their application in medicine as well

as the significant growth of biomaterials in research fields introduces the variables law Rabiee s theory for the implementation of this research and the establishment of a proper strategy Considering that the degree of number of biomaterial and host variables follow a variety factors and by increasing the degree of number of biomaterials and host variables the degree of total variables also increases and as a result performance and consequently biomaterial behavior in the host environment will have less control and predictive capabilities For an external substance that is supposed to be in the human body it must be predictable and controllable In addition according to the principle that the host in a fixed person does not have the ability to change therefore by using the simpler biomaterials with less variables the above goal is more accessible It should be noted that in addition to observing biocompatibility tests for a biomaterial based on existing protocols and standards the Applicable Compatibility AC parameter is also required in accordance with Rabiee s theory This book is written in accordance with Rabiee s theory and the contents of this book should be evaluated from this perspective

**Nanomedicine, Nanotheranostics and Nanobiotechnology** Rishi Paliwal, Shivani Rai Paliwal, 2024-09-30 Nanosized particles explored for therapeutics and diagnosis related research areas need the latest updated information for budding researchers as well as academicians Nanomedicine nanotheranostics and nanobiotechnology have been contemporary technological tools for diverse biomedical pharmaceutical and diagnostic solutions The present book is divided into two sections The first section is dedicated to exclusive book chapters related to nanomedicine such as its history regulatory aspects scale up and regulatory toxicology Additionally this section includes chapters focusing on the application domain of nanomedicine for targeted cancer therapy rheumatoid arthritis management psoriasis treatment ocular delivery topical applications oral bioavailability enhancement and pulmonary delivery The second section is composed of chapters in the area of nanotheranostics and applications of nanobiotechnology In brief the latest topics such as gold nanoparticles in diagnostics and therapy nanoparticles for siRNA delivery carbon nanotubes for gene delivery nanoparticles for vaccine delivery nanobiotechnology in cell based nanomedicines nanotechnology in regenerative medicine and nanocarriers in delivery of proteins and peptides are compiled KEY FEATURES A total of 26 emerging topics are covered in the book on cutting edge research areas at the multi disciplinary level The chapters focus on fundamentals and applications making the book attractive for beginners as well as experts The chapters are written by well known experts of the field in a simple scientific style with figures schemes and illustrations

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