

Zhifei Dai *Editor*

Advances in Nanotheranostics I

Design and Fabrication of Theranostic
Nanoparticles

Advances Nanotheranostics Fabrication Nanoparticles Biomaterials

**Sanjun Shi,Jianxun Ding,Xianjue
Chen,Jingxin Mo,Zhi-xiang Yuan**



Advances Nanotheranostics Fabrication Nanoparticles Biomaterials:

Advances in Nanotheranostics I Zhifei Dai, 2015-12-15 This book highlights the recent advances in nanotheranostics from basic research to potential applications and discusses the modular design and engineering of multiplex nanoparticles including gold nanostructures luminescent nanoparticles dendrimers and liposomes Each chapter demonstrates multifunctional nanoparticles with topics covering targeting imaging delivery diagnostics and therapy as new modalities for cancer theranostics This comprehensive book presents expert views on the latest developments in theranostic nanomedicine It focuses on potential theranostic applications of multifunctional nanoparticles ranging from identifying noninvasively cancer cells by molecular detection and visualizing in vivo drug delivery by means of contrast enhanced imaging to destroying cancer cells with minimal side effects via selective accumulation at tumor sites and real time monitoring therapeutic effectiveness It also presents an interdisciplinary survey of nanotheranostics and as such is a valuable resource for researchers and students in related fields Zhifei Dai is a Professor at the Department of Biomedical Engineering College of Engineering Peking University China

Unconventional Anticancer Metallodrugs and Strategies to Improve their Pharmacological Profile Maria Contel, 2019-10-01 For the past 40 years metal based drugs have been widely used for the treatment of cancer Cisplatin and follow up drugs carboplatin ParaplatinTM and oxaliplatin EloxatinTM have been the gold standard for metallodrugs in clinical settings as antineoplastic agents While effective these drugs either alone or in combination therapy have faced a number of clinical challenges resulting from their limited spectrum of activity high toxicity leading to significant side effects resistance poor water solubility low bioavailability and short circulating time In the past 10 years various unconventional non platinum metal based agents have emerged as a potential alternative for cancer treatment These compounds are highly effective and selective in cancers resistant to cisplatin and other chemotherapeutic agents Research in this area has recently exploded with a relevant number of patents and clinical trials in addition to reports in scientific journals Furthermore in parallel to the synthesis of coordination and organometallic compounds comprising many different metals and unconventional platinum based derivatives researchers are focused on optimizing mechanistic and pharmacological features of promising drug candidates This Special Issue aims to highlight the latest advances in anticancer metallodrugs with a focus on unconventional anticancer agents as well as novel activation targeting and delivery strategies aimed at improving their pharmacological profile

Advances in Nanotheranostics II Zhifei Dai, 2016-01-11 This book surveys recent advances in theranostics based on magnetic nanoparticles ultrasound contrast agents silica nanoparticles and polymeric micelles It presents magnetic nanoparticles which offer a robust tool for contrast enhanced MRI imaging magnetic targeting controlled drug delivery molecular imaging guided gene therapy magnetic hyperthermia and controlling cell fate Multifunctional ultrasound contrast agents have great potential in ultrasound molecular imaging multimodal imaging drug gene delivery and integrated diagnostics and therapeutics Due to their diversity and multifunctionality polymeric micelles

and silica based nanocomposites are highly capable of enhancing the efficacy of multimodal imaging and synergistic cancer therapy This comprehensive book summarizes the main advances in multifunctional nanoprobe for targeted imaging and therapy of gastric cancer and explores the clinical translational prospects and challenges Although more research is needed to overcome the substantial obstacles that impede the development and availability of nanotheranostic products such nontrivial nanoagents are expected to revolutionize medical treatments and help to realize the potential of personalized medicine to diagnose treat and follow up patients with cancer Zhifei Dai is a Professor at the Department of Biomedical Engineering College of Engineering Peking University China **Nanotheranostics** Mahendra Rai,Bushra Jamil,2019-11-22 This book is specifically designed to provide information about various nanocarriers currently developed under the emerging field of nanotheranostics for a sustained controlled and targeted co delivery of diagnostic and therapeutic agents Diverse theranostic applications of nanotechnology and their limitations are also addressed It integrates nanobiotechnology with theranostic applications The combined term nanotheranostics has diverse application particularly in chemotherapy and other infectious diseases Among other topics addressed are antimicrobial resistance targeting intra cellular pathogens viruses and bacteria chemotherapy cancer therapeutics and inflammatory disorders This interdisciplinary volume is essential for a diverse group of readers including nanotechnologists microbiologists biotechnologists bioengineering and bioprocess industry **Engineering Biomaterials for Neural Applications** Elizabeth Nance,2022-10-28 This contributed volume explores the ways in which researchers engineer new biomaterials for the challenging problems of the peripheral and central nervous systems These biomaterials are uniquely positioned for use in creating in vitro models of injury and disease testing therapeutic treatments understanding neural development and mapping the multi scalar environment of the brain This book informs readers from biology chemistry materials science engineering and neuroscience on cutting edge research in engineering technologies from fundamental material development through pre clinical studies The book also highlights target applications in three areas of research 1 engineering neural models and materials 2 probing biological underpinnings of neurological function and disease and 3 designing therapeutic and diagnostic treatments for neurological disease

SPIONs as Nano-Theranostics Agents Atefeh Zarepour, Ali Zarrabi, Arezoo Khosravi, 2017-01-20 This Brief introduces SuperParamagnetic Iron Oxide Nanoparticles SPIONs the different synthesis approaches their applications in the field of diagnostics and treatment and finally as theranostic agents in cancer **Functional Biomaterials** Sougata Jana, Subrata Jana, 2022-03-29 This book explores in depth a wide range of functional biomaterials based systems for drug gene delivery and biomedical aspects The chapters cover newer technologies such as polymeric micelle pH responsive biomaterials stimuli responsive hydrogels silk fibroin inorganic biomaterials synthetic biomaterials 3D printed biomaterials metallic biomaterials ceramic and hybrid biomaterials It also describes the theranostic approaches for cancer therapy the biomaterials based nanofibers scaffolds in tissue engineering as well as the strategies applications of metallic biomaterials for the medical and

dental prosthetic field This newer and updated approach will be attractive for biomedical engineering students working on materials science in the development of novel drug delivery strategies The book will be an important reference for researchers and professionals working on biomaterial research in the pharmaceutical and medical fields

**Advanced
Theranostic Nanomedicine in Oncology** Gianni Ciofani, Attilio Marino, Christos Tapeinos, 2020-03-18 **Novel**

Biomaterials for Tissue Engineering 2018 Emmanuel Stratakis, 2019-02-05 This book is a printed edition of the Special Issue Novel Biomaterials for Tissue Engineering 2018 that was published in IJMS **Innovations and Applications of**

Advanced Biomaterials in Healthcare and Engineering Al-Humairi, Safaa Najah Saud, Koç, Erkan, Al-Humairi, Amir

Najah Saud, 2025-04-25 Biomaterials integrated into healthcare and engineering design properties and applications in modern science and technology advance current fabrication processes With their biocompatibility they enhance the performance of tissue engineering medical implants drug delivery systems and other areas of technological advancement Various categories of biomaterials may lead to innovations in smart materials and manufacturing They may inspire innovative solutions to global challenges in healthcare and technology Innovations and Applications of Advanced Biomaterials in Healthcare and Engineering serves as a consolidated resource offering both foundational knowledge and advanced research insights with the latest developments in biomaterials Case studies and real world implementations complement theoretical insights bridging the gap between academic research and practical innovation Covering topics such as immunotherapy multidrug resistance and metalloptosis mechanisms this book is an excellent resource for material scientists biomedical engineers clinicians researchers academicians and more Advanced Nanomaterials for Photothermal Agents Bo Li, Guanjie

He, Ming Ma, 2021-09-27 Cancer Nanotheranostics Muthupandian Saravanan, Hamed Barabadi, 2021-10-05

Nanotechnology is an interdisciplinary research field that integrates chemistry engineering biology and medicine Nanomaterials offer tremendous opportunity as well as challenges for researchers Of course cancer is one of the world's most common health problems responsible for many deaths Exploring efficient anticancer drugs could revolutionize treatment options and help manage cancer mortality Nanomedicine plays a significant role in developing alternative and more effective treatment strategies for cancer theranostics This book mainly focuses on the emerging trends using nanomaterials and nanocomposites as alternative anticancer materials The book is divided into three main topic areas how to overcome existing traditional approaches to combat cancer applying multiple mechanisms to target the cancer cells and how nanomaterials can be used as effective carriers The contents highlight recent advances in interdisciplinary research on processing morphology structure and properties of nanostructured materials and their applications to combat cancer Cancer Nanotheranostics is comprehensive in that it discusses all aspects of cancer nanotechnology Because of the vast amount of information it was decided to split this material into two volumes In the first volume of Cancer Nanotheranostics we discuss the role of different nanomaterials for cancer therapy including lipid based nanomaterials protein and peptide based

nanomaterials polymer based nanomaterials metal organic nanomaterials porphyrin based nanomaterials metal based nanomaterials silica based nanomaterials exosome based nanomaterials and nano antibodies In the second volume we discuss the nano based diagnosis of cancer nano oncology for clinical applications nano immunotherapy nano based photothermal cancer therapy nano erythrocytes for cancer drug delivery regulatory perspectives of nanomaterials limitations of cancer nanotheranostics the safety of nano biomaterials for cancer nanotheranostics multifunctional nanomaterials for targeting cancer nanotheranostics and the role of artificial intelligence in cancer nanotheranostics

Fundamentals of Pharmaceutical Nanoscience Ijeoma F. Uchegbu, Andreas G. Schätzlein, Aikaterini Lalatsa, Dolores Remedios Serrano Lopez, 2024-11-09 Nanoscience or the science of the very small offers the pharmaceutical scientist a wealth of opportunities By fabricating at the nanoscale it is possible to exert unprecedented control on drug activity This textbook will showcase a variety of nanosystems working from their design and construction to their application in the field of drug delivery The book is intended for graduate students in drug delivery physical and polymer chemistry and applied pharmaceutical sciences courses that involve fundamental nanoscience The purpose of the text is to present physicochemical and biomedical properties of synthetic polymers with an emphasis on their application in polymer therapeutics i e pharmaceutical nanosystems drug delivery and biological performance There are two main objectives of this text The first is to provide advanced graduate students with knowledge of the principles of nanosystems and polymer science including synthesis structure and characterization of solution and solid state properties The second is to describe the fundamentals of therapeutic applications of polymers in drug delivery targeting response modifiers as well as regulatory issues The courses often listed as Advanced Drug Delivery and Applied Pharmaceutics Polymer Therapeutics or Nanomedicine are designed as an overview of the field specifically for graduate students in the Department of Pharmaceutical Sciences Graduate Programs However the course content may also be of interest for graduate students in related biomedical research programs These courses generally include a discussion of the major principles of polymer science and fundamental concepts of application of polymers as modern therapeutics All courses are moving away from the above mentioned course names and going by pharmaceutical nanoscience or nanosystems This area of research and technology development has attracted tremendous attention during the last twodecades and it is expected that it will continue to grow in importance However the area is just emerging and courses are limited but they are offered

NanoBioMedicine Shailendra K. Saxena, S. M. Paul Khurana, 2020-02-03 This book provides a comprehensive overview of the recent trends in various Nanotechnology based therapeutics and challenges associated with its development Nanobiotechnology is an interdisciplinary research that has wide applications in the various fields of biomedical research The book discusses the various facets of the application of Nanotechnology in drug delivery clinical diagnostics Nanomedicine and treatment of infectious and chronic diseases The book also highlights the recent advancements on important devices and applications that are based on Nanotechnology in

medicine and brief the regulatory and ethical issues related to nanomedical devices It also reviews the toxicological profile of various nanomaterials and emphasizes the need for safe nanomaterials for clinical use Finally the book discusses the recent developments of potential commercial applications of Nanotechnology

Site-specific Cancer Nanotheranostics

Yashwant V. Pathak,Jayvadan K. Patel,Namdev L. Dhas,Vipulkumar Prahladbhai Patel,2023-10-19 This book addresses various aspects of recent progress in the development of all types of tumorresponsive and site specific delivery platforms together with the range of related chemistries It is a timely volume as global research in oncology is moving towards more biochemical signal based and cell environment inspired therapeutic strategies Furthermore the book emphasizes the need to explore various characterization techniques for specific stimuli responsive nanoplatforms and toxicological and regulatory aspects Features Focused comprehensive volume providing a different angle on theranostics in cancer intervention Targets not only the multifunctionality of nanosystems but provides a comprehensive overview of niche technical aspects Given the chemistries presented here it provides both early career and experienced readers with strategies from leading authorities in the field globally

Nanoengineered Biomaterials for Advanced Drug Delivery Masoud Mozafari,2020-06-17

Nanoengineered Biomaterials for Advanced Drug Delivery explores the latest advances in the applications of nanoengineered biomaterials in drug delivery systems The book covers a wide range of biomaterials and nanotechnology techniques that have been used for the delivery of different biological molecules and drugs in the human body It is an important resource for biomaterials scientists and engineers working in biomedicine and those wanting to learn more on how nanoengineered biomaterials are being used to enhance drug delivery for a variety of diseases Nanoengineered biomaterials have enhanced properties that make them more effective than conventional biomaterials as both drug delivery agents and in the creation of new drug delivery systems As nanoengineering becomes more cost effective nanoengineered biomaterials have become more widely used within biomedicine Offers an informed overview on how nanoengineering biomaterials enhance their properties for drug delivery applications Discusses the major applications of nanoengineered biomaterials for drug delivery Outlines the major challenges for successfully implementing nanoengineered biomaterials into existing drug delivery systems

Recent Advances in Molecular Targets for Drug Discovery and Delivery in Tumor Sanjun Shi,Jianxun Ding,Xianjue Chen,Jingxin

Mo,Zhi-xiang Yuan,2022-05-05

Advanced Materials for Multidisciplinary Applications Marinda Wu,Wei Gao,Lei

Li,Yingchun Lu,Jingbo Louise Liu,2023-11-20 This book provides an overview of recent research in the area of advanced materials for improving human healthcare protecting the environment and alternative energy resources The authors analyze and deliver viable technical solutions demonstrating how chemistry and engineering can collectively solve technical and societal challenges The book explores innovative technology for the synthesis of complex carbohydrates glycoproteins new drug development delivery theragnostics of infectious disease and cancer It also provides insights into the nature of energy extraction management and usage related to fossil fuels and sustainable energy The book brings together a group of dynamic

and productive scientists engineers and other professionals in celebration of the 40th Anniversary of Chinese American Chemical Society It is a valuable resource for all readers interested in the study of materials to address society's increasing need for electrical and chemical energy

Nanotechnology for Advances in Medical Microbiology Naga Raju Maddela, Sagnik Chakraborty, Ram Prasad, 2021-03-22 Combined fields of Microbiology and Nanotechnology have been most successful in providing novel solutions for protecting the health of humans and environment This book covers the implications of nano strategies to combat bacterial pathogens applications of nanotechniques in microbiology and innovative advances in the area of medical microbiology Contents are divided into three sections Nanoscience in controlling bacterial pathogens Nanoscience in Microbiology Medical Microbiology This volume is going to provide timely information about the technological advances of Nanoscience in the domain of Microbiology with a special emphasis on Pathobiology The book is a useful read for students and researchers in microbiology nanotechnology and medical microbiology

Nanotheranostics for Cancer Applications Prakash Rai, Stephanie A. Morris, 2018-11-12 This book is the first to focus specifically on cancer nanotheranostics Each of the chapters that make up this comprehensive volume is authored by a researcher clinician or regulatory agency member known for their expertise in this field Theranostics the technology to simultaneously diagnose and treat a disease is a nascent field that is growing rapidly in this era of personalized medicine As the need for cost effective disease diagnosis grows drug delivery systems that can act as multifunctional carriers for imaging contrast and therapy agents could provide unique breakthroughs in oncology Nanotechnology has enabled the development of smart theranostic platforms that can concurrently diagnose disease start primary treatment monitor response and initiate secondary treatments if required In oncology chemotherapeutics have been routinely used Some drugs have proven effective but all carry risks of adverse side effects There is growing interest in using remotely triggered drug delivery systems to limit cytotoxicity in the diseased area This book reviews the use of theranostic nanoparticles for cancer applications over the past decade First it briefly discusses the challenges and limitations of conventional cancer treatments and presents an overview of the use of nanotechnology in treating cancer These introductory chapters are followed by those exploring cancer diagnosis and a myriad of delivery methods for nanotherapeutics The book also addresses multifunctional platforms treatment monitoring and regulatory considerations As a whole the book aims to briefly summarize the development and clinical potential of various nanotheranostics for cancer applications and to delineate the challenges that must be overcome for successful clinical development and implementation of such cancer theranostics

Unveiling the Magic of Words: A Overview of "**Advances Nanotheranostics Fabrication Nanoparticles Biomaterials**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Advances Nanotheranostics Fabrication Nanoparticles Biomaterials**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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