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# **Dendrimers In Biomedical Applications Rsc**

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#### **Dendrimers In Biomedical Applications Rsc:**

**Dendrimers in Biomedical Applications** Barbara Klajnert, Ling Peng, Valentin Cena, 2013-05-31 Dendrimers are important molecules that are currently undergoing investigation for use in a variety of different biomedical applications This book explores the use of dendrimers for a variety of potential functions including antiamyloidogenic agents drug delivery systems nucleic acid and RNA delivery vectors and to produce hybrid fibre platforms for nantechnology Following the work of COST action TD0802 the main objective of which is to improve existing therapies and find new drugs based on dendrimers the book will provide comprehensive coverage of dendrimer applications Coverage includes modelling and molecular dynamic studies of dendrimers and dendrons anionic dendrimer polymers cationic carbosilane dendrimers and self assembled multivalent dendrimers Providing clear indications for future research and applications this text will appeal to chemists biologists and materials scientists working in both academia and industry Phosphorous Dendrimers in Biology and Nanomedicine Anne-Marie Caminade, Cédric-Olivier Turrin, Jean-Pierre Majoral, 2018-05-03 Dendrimers which are hyperbranched synthetic macromolecules have attracted researchers increasing interest over the last three decades owing to their numerous properties in particular in the fields of biology and nanomedicine This book is an up to date collection of the most recent achievements in the use of dendrimers in nanomedicine exemplified by phosphorus containing dendrimers Starting with the synthesis and characterization of phosphorus dendrimers the book discusses their use as biomaterials carriers of biological entities and anti inflammatory drugs in bioimaging and against prion diseases Alzheimer s HIV and cancer It compares phosphorus dendrimers with other types of dendrimers Supplemented with numerous references and abundant illustrations the book opens new perspectives for the researchers working on dendrimers Adrián Pastor López-Monroy, Alejandro Rosales-Pérez, Jesús Ariel Carrasco-Ochoa, José Francisco Martínez-Trinidad, José Arturo Olvera-López, 2025-07-26 This book constitutes the proceedings of the 17th Mexican Conference on Pattern Recognition MCPR 2025 held in Guanajuato Mexico during June 25 28 2025 The 36 full papers presented in this volume were carefully reviewed and selected from 70 submissions They are grouped into the following topics Pattern Recognition and Machine Learning Techniques Language Processing and Recognition Computer Vision Medical Applications of Pattern Recognition Reinforcement Learning Deep Learning and Neural Networks Biomedical Applications of Peptide-, Glycoand Glycopeptide Dendrimers, and Analogous Dendrimeric Structures Jaroslav Sebestik, Milan Reinis, Jan Jezek, 2012-12-13 Dendrimers are repeatedly branched and roughly spherical large molecules They can be used in various medical applications such as anticancer polymeric nanomedicines and nanocarriers gene carriers and vectors in gene delivery contrast agents for molecular imaging and vaccines against infectious diseases and cancer The highly branched multivalent nature and molecular architecture of dendrimers make them ideal tools for a variety of tissue engineering applications This book describes different categories of dendrimers their biomedical and physico chemical applications as well as convergent and

divergent syntheses click chemistry and ligation strategies It is a rich source of information for researchers in biochemistry and pharmacology working on drug development as well as for organic chemists who are engaged in synthesis of dendrimers

**Dendrimers in Nanomedicine** Delphine Felder-Flesch, 2016-10-26 Nanomedicine can take advantage of the recent developments in nanobiotechnology research for the creation of platforms with superior drug carrier capabilities selective responsiveness to the environment unique contrast enhancement profiles and improved accumulation at the disease site This book provides a broad glimpse of how various dendritic nanomaterials have been designed and used as efficient tools for nanomedicine It comprises a pedagogic introduction to dendrimers and hyperbranched systems and their classical and accelerated syntheses through cutting edge methodologies The chapters on dendronized magnetic nanoparticles as theranostics dendrimers in theory molecular simulations siRNA delivery with dendrimers and dendrimers for image guided therapy combined with chapters focused on specific types of dendrimers or hyperbranched structures detail the cutting edge research in nanomedicine Finally a detailed chapter on issues related to the pharmacokinetics and biodistribution of dendrimers helps choose the right structures for successful transfer from bench to bedside This book will appeal to those involved in nanobiotechnology macromolecular science cancer therapy tissue repair and siRNA delivery research

<u>Dendrimers in Nanomedicine</u> Neelesh Kumar Mehra, Keerti Jain, 2021-03-24 Dendrimers hyperbranched macromolecules emerged just few decades ago but show promising potential as drug delivery nanocarriers theranostic agents and gene vectors in the pharmaceutical research and innovation area as well as in other healthcare applications Although tremendous advancements have been made in dendrimer chemistry and their applications since their emergence the synthesis development and design of pure and safe dendrimer based products have been a major challenge in this area This book edited by well known researchers in the area of nanomaterials and drug based drug delivery applications exhaustively covers the nanotechnological aspects concepts properties characterisation application biofate and regulatory aspects of dendrimers It includes sixteen vivid chapters by renowned formulators researchers and academicians from all over the world highlighting their specialised areas of interest in the fields of chemistry biology pharmacy and nanomedicine Features Highlights dendrimers advancements in nanomedicine in the development of safe healthcare and biotechnological products Covers physicochemical aspects biofate drug delivery aspects and gene therapy using dendrimers Covers biomedical application of dendrimers in the field of biological sciences Gives examples of dendrimer guest interaction chemistry Dendrimers in Nanomedicine Concept Theory and Regulatory Perspectives provides the comprehensive overview of the latest research efforts in designing optimising development and scale up of dendrimer mediated delivery systems It analyses the key challenges of synthesis design molecular modelling fundamental concepts drug delivery aspects analytical tools and biological fate as well as regulatory consideration to the practical use of dendrimer application Dr Neelesh Kumar Mehra Assistant Professor of Pharmaceutics in the Department of Pharmaceutics at the National Institute of Pharmaceutical

Education Research NIPER Hyderabad India He has authored more than sixty peer reviewed publications in highly reputed international journals as well as book chapters and contributions on two patents Dr Mehra has 11 years of rich research and teaching experience in the formulation and development of complex innovative biopharmaceutical products including micro and nanotechnologies for regulated markets Dr Keerti Jain Assistant Professor of Pharmaceutics in the Department of Pharmaceutics NIPER Raebareli India For more than 10 years she has been actively engaged in formulation and development of nanomedicines Dr Jain has supervised masters and doctoral pharmaceutics students in their research works which have been published in high quality good impact factor journals She has also authored more than 60 international manuscripts in peer reviewed high impact journals In 2019 she was awarded the prestigious ICMR Amir Shakuntala Award Organometallic Chemistry Pedro J. Perez, 2020-06-06 Advances in Organometallic Chemistry Volume 74 the latest release in this longstanding serial is known for its comprehensive coverage of topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more It is ideal for a wide range of researchers involved in organometallic chemistry with this updated release including chapters on Metal dendrimers used in biomedical applications Sigma bond activation reactions induced by unsaturated osmium IV complexes with bulky phosphines Base metal pincer complexes and more Contains contributions from leading authorities in the field of organometallic chemistry Covers topics in organometallic synthesis reactions mechanisms homogeneous catalysis and more Informs and updates readers on the latest developments in the field Carefully edited to provide easy to read material Nanoengineering of Biomaterials Sougata Jana, Subrata Jana, 2021-12-10 In Nanoengineering of Biomaterials Drug Delivery Biomedical Applications untersucht ein Expertenteam von Chemikern in pr gnanter Form die Synthese Charakterisierung und Freisetzung von Wirkstoffmolek len in vitro und in vivo die pharmakokinetische Aktivit t pharmakodynamische Aktivit t und die biomedizinischen Anwendungen verschiedener Arten von nanotechnologisch hergestellten Biomaterialien Zudem werden die neuesten Entwicklungen in diesem Bereich anhand von aktuellen Materialien pr sentiert Dieses Werk ist eine Sammlung von wertvollen und leicht zug nglichen Referenzquellen fr Forscher in der Materialchemie und verwandten Forschungsgebieten Unter Verwendung eines funktionsorientierten Ansatzes werden organische und anorganische Ausgangsverbindungen zur Herstellung biologischer Systeme genutzt die als Ger ste Mizellen Dendrimere und andere Verabreichungssysteme dienen Nanoengineering of Biomaterials vermittelt aktuelle Erkenntnisse aus der Chemie und der Materialwissenschaft die sich leicht auf biomedizinische Systeme bertragen lassen Dar ber hinaus bietet das Werk Eine gr ndliche Einf hrung in die Verabreichung von Therapeutika durch Alginat Nanopartikel und Nanomaterialien auf Chitosan Basis in biologischen Anwendungen Eine umfassende Betrachtung von nanostrukturiertem Carrageen als Wirkstofftr ger Gellangummi Nanopartikeln bei der Wirkstoffverabreichung und Guargummi Nanopartikeln bei der Verabreichung bioaktiver Molek le Eine praktische Er rterung von proteinbasierten Nanopartikeln bei der Wirkstoffverabreichung festen Lipid Nanopartikeln als Wirkstofftr ger

und auf den pH Wert reagierenden Nanopartikeln in der Therapie Eine grundlegende Untersuchung von auf bestimmte Stimuli reagierenden Nanotr gern bei der gezielten Wirkstoffverabreichung Nanoengineering of Biomaterials Drug Delivery and Biomedical Applications ist nicht nur perfekt fr Fachleute in der pharmazeutischen Chemie Materialwissenschaft Polymerchemie den Biowissenschaften und der Medizinalchemie geeignet sondern ist auch eine unverzichtbare Quelle fr Biologen und Bioingenieure auf der Suche nach einem umfassenden Nachschlagewerk das sich mit der bertragbarkeit der Materialchemie und Nanotechnologie auf die Biomedizin besch ftigt **Dendrimers for Drug Delivery** Anil K. Sharma, Raj K. Keservani, 2018-07-27 With chapters from highly skilled experienced and renowned scientists and researchers from around the globe Dendrimers for Drug Delivery provides an abundance of information on dendrimers and their applications in the field of drug delivery. The volume begins with an introduction to dendrimers summarizing dendrimer applications and the striking features of dendrimers It goes on to present the details of usual properties structure classification and methods of synthesis with relevant examples The toxicity of dendrimers is also discussed The chapter authors provide an exhaustive amount of information about dendrimers and their biomedical applications including biocompatibility and toxicity aspects a very useful feature This informative volume will be valuable resource that will help readers to create products derived from dendrimers and navigate through the regulatory manufacturing and quality control hurdles It will be an important resource for researchers scientists upper level students and industry professionals Malarial Drug Delivery Systems Ranjita Shegokar, Yashwant Pathak, 2023-03-06 This book targets new advances in areas of treatment and drug delivery sciences for Malaria This is the only published book which compiles the complete road map of malarial drug delivery systems along with an overview on the pathology current state of malaria across the globe new clinical trials emerging drugs and evolving novel drug delivery platforms A wide variety of novel micro and nano formulations using promising technologies are being explored to deliver the malarial drug via different administration routes This book addresses the gap between new approaches and old treatment modalities and how the former is superior in pharmacological performance when tested in in vitro and in vivo Audience from wide range group like from researchers to regulatory bodies can benefit from the compiled information to find out patient needs and addresses a much needed update to the existing malaria drug delivery research Nanotechnology for Biomedical Applications Sreerag Gopi, Preetha Balakrishnan, Nabisab Mujawar Mubarak, 2022-03-08 This book provides an overview of the use of nanoparticles carbon nanotubes liposomes and nanopatterned flat surfaces for specific biomedical applications This book explains the chemical and physical properties of the surface of these materials that allow their use in diagnosis biosensing and bioimaging devices drug delivery systems and bone substitute implants The toxicology of these particles is also discussed in the light of a new field referred to as nanotoxicology in this book This book will be useful for engineers researchers and industry professionals primarily in the fields of polymer science and engineering materials science surface science nanocatalysis biotechnology and biomedicine Nanohybrids in Environmental & Biomedical Applications

Surender Kumar Sharma, 2019-07-09 Heterostructured nanoparticles have the capability for a broad range of novel and enhanced properties which leads to appealing biomedical and environmental applications. This timely new book addresses the design and preparation of multiphase nanomaterials with desired size shape phase composition and crystallinity as well as their current applications It emphasizes key examples to motivate deeper studies including nanomaterial based hyperthermia treatment of cancer nanohybrids for water purification nanostructures used in the removal or detection of bioagents from waste water and so on Features Presents state of the art research on heterostructured nanomaterials from their synthesis and physiochemical properties to current environmental and biological applications Includes details on toxicity and risk assessment of multifunctional nanomaterials Discusses recent developments and utilization in healthcare by leading experts Introduces the main features of functionalization of nanomaterials in terms of desired size shape phase composition surface functionalization coating toxicity and geometry Emphasizes practical applications in the environmental and biomedical Nanoparticles in Pharmacotherapy Alexandru Mihai Grumezescu, 2019-04-10 Nanoparticles in Pharmacotherapy sectors 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 Transition Metal-containing Dendrimers in Biomedicine Alaa S. Abd-El-Aziz, Amal M. Youssef, Ahmad Abd-El-Aziz, 2023-07-19 This book brings chemistry biology pharmaceutical science and medicine to introduce readers to a number of classes of transition metal containing dendrimers Nanoengineering in Musculoskeletal Regeneration Mehdi Razavi, 2020-05-09 Nanoengineering in Musculoskeletal Regeneration provides the reader an updated summary of the therapeutic pipeline from biomedical discovery to clinical implementation aimed at improving treatments for patients with conditions of the muscles tendons cartilage meniscus and bone Regenerative medicine focuses on using stem cell biology to advance medical therapies for devastating disorders This text presents novel significant and interdisciplinary theoretical and experimental results related to nanoscience and nanotechnology in musculoskeletal regeneration Content includes basic translational and clinical research addressing musculoskeletal repair and regeneration for the treatment of diseases and injuries of the skeleton and its associated tissues Musculoskeletal degeneration and complications from injuries have become more prevalent as people live longer and increasingly participate in rigorous athletic and recreational activities Additionally defects in skeletal tissues may immobilize people and cause inflammation and pain Musculoskeletal regeneration research provides solutions to repair restore or replace skeletal elements and associated tissues that are affected by acute injury chronic degeneration genetic dysfunction and cancer related defects The goal of musculoskeletal regeneration medicine research is to improve quality of life and outcomes for people with musculoskeletal injury or degradation Provides broad coverage in all research areas focused on the applications of nanotechnology in musculoskeletal regeneration Offers useful

guidance for physician scientists with expertise in orthopedics regenerative medicine bioengineering biomaterials nanoengineering stem cell biology and chemistry Serves as a practical reference for many disciplines including bioengineering biomaterials tissue engineering regenerative medicine musculoskeletal regenerative medicine and Novel Platforms for Drug Delivery Applications Sangita Das, Sabu Thomas, Partha Pratim Das, 2022-11-08 Novel Platforms for Drug Delivery Applications covers diverse aspects in the design synthesis and characterization of novel drug delivery platforms and devices This book comprehensively details the development application and performance of various novel molecular frameworks as potent drug delivery vehicles Chapters cover a range of materials and molecular platforms for drug delivery from hydrogels nanocarriers and metal organic frameworks to cyclodextrin and polyphosphazene Each chapter discusses the benefits and limitations of each drug delivery system as well as toxicological and safety implications This book offers an interdisciplinary approach to this fast moving topic bridging the disciplines of materials science and pharmacology Provides an up to date single resource on novel drug delivery platforms a rapidly evolving field of research Covers a broad range of materials systems and release mechanisms including in vivo and in vitro studies Describes the synthesis properties formulation and application of various novel drug delivery systems Handbook of Nanomaterials for Industrial Applications Chaudhery Mustansar Hussain, 2018-07-19 Handbook of Nanomaterials for Industrial Applications explores the use of novel nanomaterials in the industrial arena The book covers nanomaterials and the techniques that can play vital roles in many industrial procedures such as increasing sensitivity magnifying precision and improving production limits In addition the book stresses that these approaches tend to provide green sustainable solutions for industrial developments Finally the legal economical and toxicity aspects of nanomaterials are covered in detail making this is a comprehensive important resource for anyone wanting to learn more about how nanomaterials are changing the way we create products in modern industry Demonstrates how cutting edge developments in nanomaterials translate into real world innovations in a range of industry sectors Explores how using nanomaterials can help engineers to create innovative consumer products Discusses the legal economical and toxicity issues arising from the industrial applications of Bacterial Infectious Diseases Annual Volume 2023, 2023-12-20 Despite the development of numerous nanomaterials antimicrobial agents the successful eradication of bacterial infections remains a challenge and bacteria continue to pose a major public health threat It is estimated that due to the increasing prevalence of antibiotic resistance infectious diseases will become a leading cause of death by 2050 The current annual focus is on the challenges and advantages in the prevention and diagnosis of infections caused by ESKAPE pathogens The book also includes a dedicated chapter on the diagnosis of tuberculosis one of the leading infectious causes of death worldwide Additionally readers will find chapters describing achievements in the diagnosis and detection of common gastrointestinal tract pathogens Listeria monocytogenes and Campylobacter jejuni authored by experts in their fields Novel Materials for Environmental Remediation Applications

Dimitrios A Giannakoudakis, Lucas Meili, Ioannis Anastopoulos, 2022-10-01 Novel Materials for Environmental Remediation Applications Adsorption and Beyond presents detailed comprehensive coverage of novel and advanced materials that can be applied to address the growing global concern of the pollution of natural resources in water the air and in soil The book provides up to date knowledge of state of the art materials and treatment processes as well as details of applications including adsorptive remediation and catalytic remediation Chapters include the characteristics of materials basic and important physicochemical features for environmental remediation applications routes of synthesis recent advances as remediation medias and future perspectives This book offers an interdisciplinary and practical examination of novel materials and processes for environmental remediation that will be valuable to environmental scientists materials scientists environmental chemists and environmental engineers alike Highlights a wide range of synthetic methodologies physicochemical and engineered features of novel materials and composites hybrids for environmental purposes Presents applications of adsorbents or catalysts for water wastewater treatment and air purification technologies such as advanced oxidation processes adsorption photocatalysis coagulation flotation membrane separation filtration and others Provides comprehensive consolidated coverage of novel materials for environmental remediation applications for researchers in environmental science materials science and industry to identify in depth solutions to pollution **Innovations in Green** Nanoscience and Nanotechnology Shrikaant Kulkarni, 2022-12-21 This book discusses how greener synthetic pathways are amenable and productive for the synthesis of novel nanomaterials It furthers the integration of advances in green nanoscience and nanotechnology including pathways dedicated to the design development and fabrication of a range of products and devices Topics such as green nanotechnology for advanced energy systems sustainable delivery systems medicine agri nanotechnology for sustainable agriculture nanotechnology in crop protection and nanotechnology for soil conservation are included FEATURES Provides a holistic view of green nanotechnology and its applications Places an emphasis on synthesis characterization and applications of green nanomaterials Discusses the development of innovative green synthetic pathways to produce novel biomaterials Includes characterization tools used in the material synthesis via green synthetic pathways Advocates green nanotechnology solutions for sustainability and energy This book is aimed at researchers and professionals in nanotechnology green chemistry and chemical engineering

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