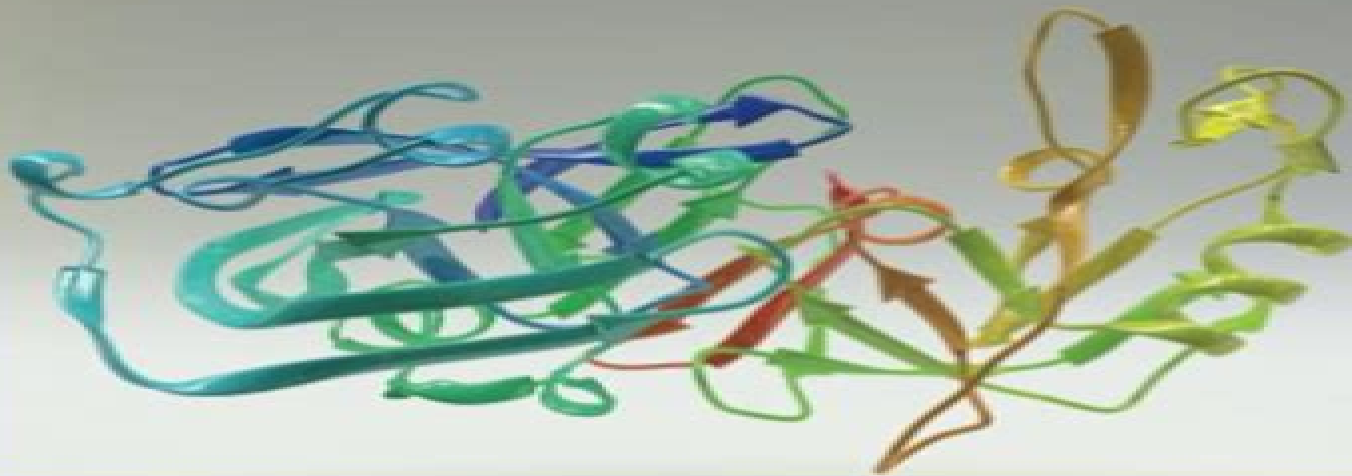


# Nanotechnology in Drug Delivery

Fundamentals, Design, and Applications



Saurabh Bhatia

# Nanotechnology In Drug Delivery Fundamentals Design And Applications

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## **Nanotechnology In Drug Delivery Fundamentals Design And Applications:**

**Nanotechnology in Drug Delivery** Saurabh Bhatia, 2017-03-03 This important new book provides the fundamental understanding of the peptide and protein drug delivery systems with a special focus on their nanotechnology applications Addressing an increasing interest in peptide and protein drug delivery systems in both academic and industrial circles worldwide this book fills the need for a comprehensive review and assessment of conventional and nonconventional routes of administration **Nanotechnology in Drug Delivery** Lino Messana, 2017-02 **Recent Advances in Natural Products**

**Science** Ahmed Al-Harrasi, Saurabh Bhatia, Tapan Behl, Mohammed F. Aldawsari, Deepak Kaushik, Sridevi Chigurupati, 2022-07-21 This book provides a summarized information related to the global herbal drug market and its regulations ethnopharmacology of traditional crude drugs isolation of phytopharmaceuticals phytochemistry standardization and quality assessment of crude drugs Natural products science has constantly been developing with comprehensive data contemplating different parts of natural drugs such as global trade quality control and regulatory concerns traditional medicine systems production and utilization of drugs and utilization of medicinal and aromatic plants This broad information about crude drugs gives rise to a subject that is now recognized as advance natural products science By contemplating all of this thorough knowledge of the areas this book is intended to provide considerably to the natural products science The area of natural products science involves a broad range of topics such as the pharmacognostical phytochemical and ethno pharmacological aspects of crude drugs Each chapter gives a sufficient understanding to academicians and researchers in the respective topic This book includes 40 illustrations and descriptions of roughly 80 medicinal plants used for herbal medicine The book is an imperative source for all researchers academicians students and those interested in natural products science **FEATURES** Includes advance knowledge and detailed developments in natural products science Discusses the most important phytopharmaceuticals used in the pharmaceutical industry Explores the analysis and classification of novel plant based medicinal compounds Includes standardization quality control and global trade of natural products Gives a deep understanding related to recent advances in herbal medicines to treat various ailments Discusses national and WHO regulations and policies related to herbal medicines Covers the complete profile of some important traditional medicinal plants especially their historical background biology and chemistry **Smart Systems: Engineering and Managing**

**Information for Future Success** Shubham Mahajan, Álvaro Rocha, Amit Kant Pandit, Paras Chawla, 2025-02-24 In an era where technology is rapidly advancing Smart Systems Engineering and Managing Information for Future Success offers a comprehensive exploration of cutting edge technologies that are reshaping industries and societies This book delves into the integration of Artificial Intelligence AI Internet of Things IoT cloud computing and advanced data analytics to create smarter systems that drive innovation and efficiency across various sectors *Role of Essential Oils in the Management of COVID-19* Ahmed Al-Harrasi, Saurabh Bhatia, Tapan Behl, Deepak Kaushik, Md. Khalid Anwer, Mohammed Muqtader Ahmed, Pritam Babu

Sharma,Ajay Sharma,Md. Tanvir Kabir,Vineet Mittal,2022-03-30 Coronavirus disease 2019 COVID 19 has emerged as a global health threat Unfortunately there are very limited approved therapeutics available with established efficacy and safety profiles against SARS CoV 2 COVID 19 vaccines aim to actively induce systemic immunization however the possibility or fear of side effects decreases or discourages their use Alternative therapy via natural products especially essential oils could be considered safe and effective to improve health cure ailments and soothe your body and mind Essential oils which have been known for their anti inflammatory immunomodulatory bronchodilatory and antiviral properties could possibly be useful for the symptomatic management of COVID 19 This book is vital in respect of designing approaches to protect humanity from further losses and harm due to SARS CoV 2 infection Role of Essential Oils in the Management of COVID 19 offers a complete outline of the recent novel coronavirus SARS CoV 2 infection its biology and associated challenges for the prevention and treatment of novel COVID 19 with a prime focus on the possible role of essential oils in the prevention and treatment of COVID 19 This book is written for everyone who needs to be thoroughly familiar with the appropriate and safe use of essential oils in COVID 19 therapy As per the objectives of the book The first seven chapters cover various aspects of COVID 19 infection including epidemiology origin morphology genome organization pathogenesis clinical manifestations diagnostic approaches preventive measures and treatment strategies The remaining chapters elaborate on the various aspects related to essential oils such as chemistry extraction methods dispensing methods stability quality control mechanism of action therapeutic effects pharmacokinetics aromatherapy and safety profiles Prof Ahmed Al Harrasi is Vice Chancellor for Graduate Studies Research and External Relations Natural and Medical Sciences Research Center and Professor of Organic Chemistry University of Nizwa Oman Prof Ahmed received his M Sc degree in Chemistry followed by his Ph D in Organic Chemistry from the University of Berlin He then pursued his postdoctoral research at Cornell University Afterward he continued his research rigor at the University of Nizwa where he founded the Natural and Medical Sciences Research Center which has now become a center of excellence in natural and medical sciences While enduring his research aptitude he has authored and co authored more than 400 scientific papers 2 books and 12 book chapters of high repute Dr Saurabh Bhatia graduated from Kurukshetra University followed by postgraduation from Bharati Vidyapeeth University He received his Ph D in Pharmaceutical Technology at Jadavpur University He now works as an Associate Professor at Natural and Medical Sciences Research Center University of Nizwa Oman He has 12 years of academic experience has authored 75 articles and 9 books of repute and filed 11 patents      Natural Polymer Drug Delivery Systems Saurabh Bhatia,2016-09-23 This book describes 200 bio polymers including the most recent and advanced nanotechnology applications The applications of various bio medical and other future potential uses are covered and examined in depth Systematic discussion of current leading natural polymers is also included      **Systems for Drug Delivery** Saurabh Bhatia,2016-10-06 This book details current developments in all natural polymers with a focus on animal and microbial polysaccharides The book examines compares and

contrasts the efficiency of plant and algae based natural polymers in inducing immune reactions Additionally the book details the safety and toxicity profiles with respective regulations **Biomedical Translational Research** R.C. Sobti,Naranjan S. Dhalla,2022-07-28 This book which is the third volume of Biomedical translational research focuses on the fundamental role of biomedical research in developing new medicinal products It emphasizes the importance of understanding biological and pathophysiological mechanisms underlying the disease to discover and develop new biological agents The book uniquely explores the genomic computational integrative approach for drug repositioning Further it discusses the health benefits of nutraceuticals and their application in human diseases Further the book comprehensively reviews different computational approaches that employ GWAS data to guide drug repositioning Finally it summarizes the major challenges in drug development and the strategies for the rational design of the next generation more effective but less toxic therapeutic agents

Recent Advances in Medicine and Health Sciences: Concepts, Researches and Practice Vahit MUTLU ,Mahmut Arif YÜKSEK,Emre TEKE,Şevki PEDÜK,Volkan KINAŞ,Cemil KUTSAL,Şule CEYLAN,Büşra DİNCER ,Aylin AYDIN,Fernando BWALYA ,Mustafa Sinan KAYNAK,Caner SARIKAYA,Enes KARAMAN, Arzu Hanım YAY,Barış DENK,Elif MENEKŞE,Dilek DULGER,Hasan ÇALIŞKAN , Seda KOÇAK,GÖZDE ÖZTAN,Elif Deniz ÜNAL , Sema YUSUFOĞLU ,Gülçin GACAR,Dilan DEMIRTAS KARAÖBA, Liban BARRE , Mustafa Sinan KAYNAK, Dilek ERDEN, Serpil GÜROL, Esin ÇEBER TURFAN, Gaye KESER ,Filiz NAMDAR PEKİNER,Funda FUNDAOĞLU KÜÇÜKEKENCİ,2023-03-25 Recent Advances in Medicine and Health Sciences Concepts Researches and Practice Leishmaniasis Saurabh Bhatia,Divakar Goli,2016-10-14 This new volume provides exhaustive knowledge on a wide range of natural products and holistic concepts that have provided promising in the treatment of leishmaniasis Including the major natural therapies as well as traditional formulations over 300 medicinal plants and 150 isolated compounds that are reported to have beneficial results in the treatment of the disease are explored in this comprehensive work This book also acts as an important resource on various anti inflammatory plants used to treat various inflammatory conditions of the disease

Nanotechnology Applications for Tissue Engineering Sabu Thomas,Yves Grohens,Neethu Ninan,2015-01-03 Tissue engineering involves seeding of cells on bio mimicked scaffolds providing adhesive surfaces Researchers though face a range of problems in generating tissue which can be circumvented by employing nanotechnology It provides substrates for cell adhesion and proliferation and agents for cell growth and can be used to create nanostructures and nanoparticles to aid the engineering of different types of tissue Written by renowned scientists from academia and industry this book covers the recent developments trends and innovations in the application of nanotechnologies in tissue engineering and regenerative medicine It provides information on methodologies for designing and using biomaterials to regenerate tissue on novel nano textured surface features of materials nano structured polymers and metals e g as well as on theranostics immunology and nano toxicology aspects In the book also explained are fabrication techniques for production of scaffolds to a series of tissue specific applications of scaffolds in tissue engineering for specific

biomaterials and several types of tissue such as skin bone cartilage vascular cardiac bladder and brain tissue Furthermore developments in nano drug delivery gene therapy and cancer nanotechnology are described The book helps readers to gain a working knowledge about the nanotechnology aspects of tissue engineering and will be of great use to those involved in building specific tissue substitutes in reaching their objective in a more efficient way It is aimed for R D and academic scientists lab engineers lecturers and PhD students engaged in the fields of tissue engineering or more generally regenerative medicine nanomedicine medical devices nanofabrication biofabrication nano and biomaterials and biomedical engineering Provides state of the art knowledge on how nanotechnology can help tackling known problems in tissue engineering Covers materials design fabrication techniques for tissue specific applications as well as immunology and toxicology aspects Helps scientists and lab engineers building tissue substitutes in a more efficient way

**Novel Drug Delivery Systems (Part 1)** Atish S. Mundada,Alap Chaudhari,2024-12-05 Novel Drug Delivery Systems Part 1 provides a comprehensive exploration of controlled drug delivery systems NDDS and their impact on patient outcomes and therapeutic effectiveness Covering key topics like the principles of controlled release dosage forms the role of polymers and innovative techniques like microencapsulation and mucoadhesive systems this book bridges foundational concepts with cutting edge advancements It also addresses specialized systems like gastroretentive transdermal and ocular drug delivery methods Ideal for pharmaceutical professionals students and researchers this book serves as a critical resource for understanding and developing advanced drug delivery technologies Key Features Comprehensive introduction to controlled drug delivery concepts In depth analysis of pharmacokinetics and polymers in NDDS Exploration of microencapsulation and mucoadhesive systems Insights into gastroretentive and transdermal drug delivery Overview of nanotechnology and implantable devices in drug delivery Coverage of the latest developments in injectables and ocular systems

Nanotheranostics for Diagnosis and Therapy Md. Abul Barkat,Farhan Jalees Ahmad,Mohammad Akhlaquer Rahman,Mohammad Azam Ansari,2024-07-22 This book provides an updated account of recent advancements in the field of nanotechnology based theranostics with special emphasis on their application in the diagnosis and treatment of various types of cancer and neurological diseases The book is divided into two sections the first section provides an introduction to the nanoscale theranostics radiopharmaceuticals The second section highlights the importance of nanoscale theranostics in disease diagnosis treatment It presents the potential of nanotechnology for developing nanomedicine and nanotheranostics for the diagnosis and treatment of a variety of illnesses Further the book discusses the usefulness of theranostic nanoparticles in the diagnosis of disease identification of location and stage and in providing information about the therapy response In addition the book focuses on the clinical applications of nanomaterial radiolabeling in nuclear imaging of cancer and other illness Towards the end the book examines the toxicity regulatory protocols and future aspects of clinical applications of theranostics This book is an invaluable source for academicians and industrial scientists working in multiple healthcare fields like pharmaceutical and biological sciences life

sciences biotechnology biomedical engineering and nanobiotechnology      **Drug Targeting and Stimuli Sensitive Drug Delivery Systems** Alexandru Mihai Grumezescu, 2018-05-21 Drug Targeting and Stimuli Sensitive Drug Delivery Systems covers recent advances in the area of stimuli sensitive drug delivery systems providing an up to date overview of the physical chemical biological and multistimuli responsive nanosystems In addition the book presents an analysis of clinical status for different types of nanoplatforms Written by an internationally diverse group of researchers it is an important reference resource for both biomaterials scientists and those working in the pharmaceutical industry who are looking to help create more effective drug delivery systems Shows how the use of nanomaterials can help target a drug to specific tissues and cells Explores the development of stimuli responsive drug delivery systems Includes case studies to showcase how stimuli responsive nanosystems are used in a variety of therapies including camptothecin delivery diabetes and cancer therapy

**Fundamentals Of Nanochemistry** Dr. Rupali Ajesh Gulalkari, 2024-07-23 Fundamentals of Nanochemistry serves as a foundational text for anyone interested in the study and application of nanomaterials The book begins with an exploration of the basic principles and historical development of nanotechnology providing a solid grounding in the field It then delves into the synthesis methods characterization techniques and unique properties of nanomaterials offering readers a comprehensive understanding of how these materials are created and analyzed The book also explores the various applications of nanotechnology with dedicated chapters on its use in medicine electronics and environmental sustainability The final sections address the critical issues of safety ethics and future trends equipping readers with the knowledge needed to navigate the challenges and opportunities in nanochemistry Designed for both students and professionals this book combines theoretical knowledge with practical insights making it an essential resource for anyone looking to advance their understanding of nanochemistry and its transformative impact on the world      **The Textbook of Nanoneuroscience and Nanoneurosurgery**

Babak Kateb, John D. Heiss, John S. Yu, Ming Hsieh, 2024-11-13 This textbook highlights the exciting field of nanoneuroscience and its potential to transform how we diagnose and treat neurological disorders The Textbook of Nanoneuroscience and Nanoneurosurgery dives deep into this emerging field exploring the latest tools and techniques currently being developed at the nanoscale level Key areas of focus include Nanoplatforms The book explores how scientists utilize materials on a near microscopic scale for neurosurgery neurology and brain imaging applications Bridging the Gap Regulatory hurdles for translating research from the lab to real world use are addressed paving the way for future advancements The Future is Now The book showcases recent breakthroughs already impacting patient care alongside promising areas with significant potential Collaboration is Key Insights from over 220 researchers and 5000 references along with illustrative figures in B W and color provide a comprehensive overview of this dynamic field With its focus on minimally invasive procedures and the latest regulatory considerations The Textbook of Nanoneuroscience and Nanoneurosurgery equips researchers and medical professionals with the knowledge to develop groundbreaking treatments for neurological

conditions The text also reviews the latest regulatory guidelines that influence the translation of nanotechnological research from the laboratory to the clinic and the most recent information on biodevices and pharmaceutical spinoffs It highlights presidential and congressional initiatives and programs that may impact the field soon Some reviews of the First edition of the textbook a significant contribution to the field of nanoneuroscience and nanoneurosurgery the reader will come away with a deeper understanding of the history of nanotechnology and medicine Neuroscience This is a monumental first textbook on nanoneurosurgery recommended reading for neurosurgeons neurologists neuroradiologists and neuroscientists involved in research on new techniques for application in neurosurgery Biomedical engineers and various companies developing instruments and devices would benefit from the wealth of information about trends for the development of new technologies for neurosurgery K K Jain MD Basel Switzerland Phenomenal body of knowledge in this book that would take eons to collate by myself Every answer to every one of my questions plus heaps more Essential reading for everyone interested in the field A must have Albert Deme This is an amazing foray into the future of a largely unexplored but increasingly critical medical domain I have learned much from every page of this captivating text and I highly recommend it to any medical student researcher medical professional in the neurosciences or anyone who has an interest in the human brain and the future of medicine to gather a glimpse of the incredible and beneficial paradigm shifts that will soon impact the field of neuroscience Frank Boehm British Columbia Canada

**Ocular Drug Delivery Systems** Deepak Thassu, Gerald J. Chader, 2012-10-02 Drug discovery for ocular diseases has taken great strides in the last two decades From cornea to choroid new drugs have been formulated to address a great variety of ocular diseases Yet without good drug delivery systems these drugs are less effective than they might be or could even cause serious side effects Ocular Drug Delivery Systems Ba

Pharmaceutical Manufacturing Handbook Shayne Cox Gad, 2008-03-11 This handbook features contributions from a team of expert authors representing the many disciplines within science engineering and technology that are involved in pharmaceutical manufacturing They provide the information and tools you need to design implement operate and troubleshoot a pharmaceutical manufacturing system The editor with more than thirty years experience working with pharmaceutical and biotechnology companies carefully reviewed all the chapters to ensure that each one is thorough accurate and clear

*Commercializing Nanotechnology* Hebab A. Quazi, 2020-11-15 Commercializing Nanotechnology A Roadmap to Taking Nanoproducts from Laboratory to Market provides a step by step roadmap for taking the results of laboratory research on nanotechnology and nanomaterials and developing them into successful and profitable commercial ventures It details the methodology techniques and pathways for technology readiness assessment testing protocols and commercialization and it discusses manufacturing techniques including their limitations and challenges Provides methodology techniques and pathways for technology readiness assessment testing protocols and commercialization Offers general direction and assistance to researchers Describes manufacturing techniques including their limitations and



challenges Discusses intellectual property protection Provides details on market opportunities This book is aimed at scientists and engineers including chemists physicists economists medical practitioners managers marketers traders investors and entrepreneurs in the fields of nanoscience nanomedicine nanoengineering and nanomanufacturing *Drug Delivery Using Nanomaterials* Yasser Shahzad, Syed A.A. Rizvi, Abid Mehmood Yousaf, Talib Hussain, 2022-01-18 After the drug discovery and development process designing suitable formulations to safely deliver the optimum dose while avoiding side effects has been a constant challenge especially when drugs are very toxic and have poor solubility and undesirable clearance profiles With recent advances in synthetic technologies nanoparticles can be custom made from a variety of advanced materials to mimic the bioenvironment and can be equipped with various targeting and imaging moieties for site specific delivery and real time imaging *Drug Delivery Using Nanomaterials* covers advancements in the field of nanoparticle based drug delivery systems along with all the aspects needed for a successful and marketable nanoformulation FEATURES Offers a general overview of the entire process involved in the synthesis and characterization of pharmaceutical nanoparticles Covers a broad range of synthetic materials for developing nanoformulations customized for specific disease states target organs and drugs Every chapter sequentially builds providing a progressive pathway from classical nanoparticles to the more advanced to be used as a full drug product by consumers Provides information in a bottom up manner in that definitions and explanations of relevant background information serve as a framework for understanding advanced concepts This user friendly reference is aimed at materials engineers chemical engineers biomedical engineers pharmaceutical scientists chemists and others working on advanced drug delivery from academia as well as industry

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