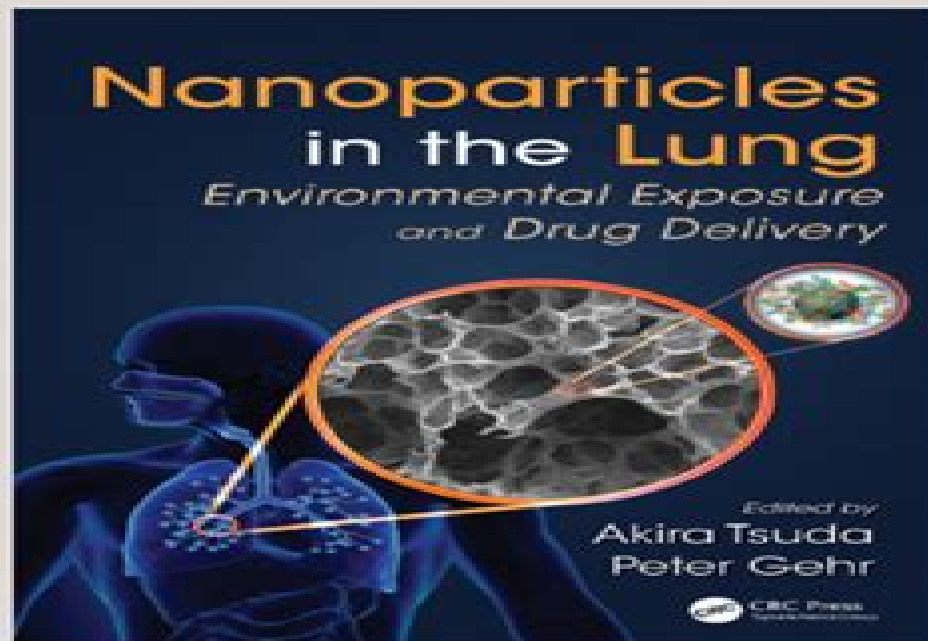


Nanoparticles in the Lung Environmental Exposure and Drug Delivery 1st Edition Akira Tsuda (Editor)



Nanoparticles In The Lung Environmental Exposure And Drug Delivery

Nilanjana Maulik, Tom Karagiannis



Nanoparticles In The Lung Environmental Exposure And Drug Delivery:

Nanoparticles in the Lung Akira Tsuda, Peter Gehr, 2014-12-19 Nanoparticles have a physical dimension comparable to the size of molecular structures on the cell surface Therefore nanoparticles compared to larger e g micrometer particles are considered to behave differently when they interact with cells Nanoparticles in the Lung Environmental Exposure and Drug Delivery provides a better understanding *Nanoparticles in medicine and environment* J.C. Marijnissen, Leon Gradon, 2009-12-01 A huge effort is put into the science of nanoparticles and their production In many cases it is unavoidable that nanoparticles are released into the environment either during the production processes or during the use of a product made from these particles It is also realized that combustion processes like traffic and power plants release nanoparticles into the atmosphere However it is not known how nanoparticles interact with the human body especially upon inhalation At the same time research activities are devoted to understand how nano sized medicine particles can be used to administer medicines via inhalation In any case it is absolutely necessary to know how the nanoparticles interfere with the inhalation system how they deposit and affect on the human system Three main themes are discussed Nanoparticle sources and production Nanoparticle inhalation and deposition Toxicological and medical consequences of nanoparticles Each theme is covered comprehensively starting at nano quantum effects up to technical and medical applications such as measuring equipment and inhalation instrumentation This book brings together all sub disciplines in the field related to aerosol nanoparticles Each chapter is written by a world expert giving the state of the art information and challenging open questions The last chapter summarizes in an interdisciplinary way what is already known and what still is ahead of us

Nanotechnology for Drug Delivery and Pharmaceuticals Ravindra Pratap Singh, Kshitij RB Singh, Jay Singh, Charles Oluwaseun Adetunji, 2023-01-10 Nanotechnology for Drug Delivery and Pharmaceutical Sciences presents various drug delivery techniques that utilize nanotechnology for the biomedical domain highlighting both therapeutic and diagnostic applications The book provides important facts and detailed studies on different promising nanocarriers like liposomes exosomes and virus based nanocarriers Moreover it explores these nanocarriers utilization in the therapeutic applications of various diseases such as cancer inflammation neurodegenerative disorders like Huntington s disease Alzheimer s disease human immunodeficiency virus HIV and inflammatory bowel disease In addition the book describes how nanotechnology has efficiently overtaken conventional dosage forms and provided comfort and ease to patients Relevant information regarding market trends patents and social economic factors are also provided making this the perfect reference for doctors researchers and scientists working in the fields of medicine biochemistry biotechnology nanobiotechnology and the pharmaceutical sciences Gives a brief description of the utilization of nanotechnology in the drug delivery domain Highlights the properties of nanocarriers their diagnostic and imaging applications and their potential role in clinical diagnosis Focuses on future developments and possibilities allowing readers to enhance and explore the remaining gaps Hayes' Principles

and Methods of Toxicology A. Wallace Hayes, Tetyana Kobets, 2023-07-03 Hayes Principles and Methods of Toxicology has long been established as a reliable and informative reference for the concepts methodologies and assessments integral to toxicology The new edition contains updated and new chapters with the addition of new authors while maintaining the same high standards that have made this book a benchmark resource in the field Key Features The comprehensive yet concise coverage of various aspects of fundamental and applied toxicology makes this book a valuable resource for educators students and professionals Questions provided at the end of each chapter allow readers to test their knowledge and understanding of the material covered All chapters have been updated and over 60 new authors have been added to reflect the dynamic nature of toxicological sciences New topics in this edition include Safety Assessment of Cosmetics and Personal Care Products The Importance of the Dose Rate Response Novel Approaches and Alternative Models Epigenetic Toxicology and an Expanded Glossary The volume is divided into 4 major sections addressing fundamental principles of toxicology Section I Principles of Toxicology major classes of established chemical hazards Section II Agents current methods used for the assessment of various endpoints indicative of chemical toxicity Section III Methods as well as toxicology of specific target systems and organs Section IV Organ and System Specific Toxicology This volume will be a valuable tool for the audience that wishes to broaden their understanding of hazards and mechanisms of toxicity and to stay on top of the emerging methods and concepts of the rapidly advancing field of toxicology and risk assessment

Handbook of Lung Targeted Drug Delivery Systems Yashwant Pathak, Nazrul Islam, 2021-10-18 Handbook of Lung Targeted Drug Delivery Systems Recent Trends and Clinical Evidences covers every aspect of the drug delivery to lungs the physiology and pharmacology of the lung modelling for lung delivery drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications With the advent of nano sciences and significant development in the nano particulate drug delivery systems there has been a renewed interest in the lung as an absorption surface for various drugs The emergence of the COVID 19 virus has brought lung and lung delivery systems into focus this book covers new developments and research used to address the prevention and treatment of respiratory diseases Written by well known scientists with years of experience in the field this timely handbook is an excellent reference book for the scientists and industry professionals Key Features Focuses particularly on the chemistry clinical pharmacology and biological developments in this field of research Presents comprehensive information on emerging nanotechnology applications in diagnosing and treating pulmonary diseases Explores drug devices focused on lung treatment regulatory requirements and recent trends in clinical applications Examines specific formulations targeted to pulmonary systems

Biomedical Applications and Toxicology of Carbon Nanomaterials Chunying Chen, Haifang Wang, 2016-04-01 An overview of biomedical applications and the toxicity properties of carbon nanomaterials aimed at helping to avoid detrimental health effects while laying the groundwork for further research in this highly relevant field Summarizing recent research the book starts with the synthesis and functionalization of

carbon nanomaterials as well as identification and detection in biosystems. It then moves on to the interaction between carbon nanoparticles and biocomponents focusing on the toxicity and mechanisms to various organs and systems and potential biomedical applications as well. Each section highlights the challenges, outlines unanswered questions and suggests directions for further research and development efforts.

Handbook of Nanoethics Gunjan Jeswani, Marcel Van de Voorde, 2021-09-07. With nanotechnology being a relatively new field, the questions regarding safety and ethics are steadily increasing with the development of the research. This book aims to give an overview on the ethics associated with employing nanoscience for products with everyday applications. The risks as well as the regulations are discussed and an outlook for the future of nanoscience on a manufacturer's scale and for the society is provided. Handbook of Nanoethics is perfect for academicians and scientists as well as all other industry professionals and researchers. It is a good introduction for newcomers in the field who do not want to dive deep into the details but are eager to understand the ethical challenges and possible solutions related to nanotechnology and ethics.

Nanoscience and Nanotechnology Marcel Van de Voorde, 2018-06-11. Innovations in Nanoscience and Nanotechnology summarizes the state of the art in nano-sized materials. The authors focus on innovation aspects and highlight potentials for future developments and applications in health care including pharmaceuticals, dentistry and cosmetics, information and communications, energy and chemical engineering. The chapters are written by leading researchers in nanoscience, chemistry, pharmacy, biology, chemistry, physics, engineering, medicine and social science. The authors come from a range of backgrounds including academia, industry and national and international laboratories around the world. This book is ideally suited for researchers and students in chemistry, physics, biology, engineering, materials science and medicine and is a useful guide for industrialists. It aims to provide inspiration for scientists, new ideas for developers and innovators in industry and guidelines for toxicologists. It also provides guidelines for agencies and government authorities to establish safe working conditions.

Mucosal Delivery of Drugs and Biologics in Nanoparticles Pavan Muttli, Nitesh K. Kunda, 2020-03-18. Nanotechnology has revolutionized the approach to designing and developing novel drug delivery systems. The last two decades have seen a great interest in the use of nanotechnology to offer efficient ways of delivering new and existing drugs and macromolecules. The focus of this book is the application of nanotechnology to deliver drugs and biological agents by the mucosal routes of administration, i.e. nasal, pulmonary, buccal and oral routes. It provides an overview of nanotechnology in drug delivery with a description of different types of nanoparticles, methods of preparation and characterization and functionalization for site-specific drug delivery. The emphasis is on the use of nanoparticles in treating various cancers and infectious diseases. It broadens the use of nanoparticles by including biologics including vaccines and immunotherapies apart from drugs and acknowledges the concerns around the potential toxicity of nanoparticles to the host. Several chapters will discuss the biodistribution of these nanoparticles when mucosal routes of administration are employed. Further, the interaction of nanoparticles with the host's immune cells is discussed. Moreover, it

reviews the regulatory aspects of nanotechnology in product development especially when delivered by the mucosal route of administration Lastly discusses the challenges and opportunities to manufacture nanoparticles on an industrial scale This book is the first of its kind to focus on the design development and delivery of nanoparticles when administered by different mucosal routes Nanoparticles in Translational Science and Medicine A Villaverde,2011-11-28 This volume explores some of the most exciting recent advances in basic research on nanoparticles in translational science and medicine and how this knowledge is leading to advances in the various fields This series provides a forum for discussion of new discoveries approaches and ideas Contributions from leading scholars and industry experts Reference guide for researchers involved in molecular biology and related fields Nanotechnology and Drug Delivery Rakesh K. Sindhu,2024-02-06 This book presents an overview of the rapidly developing field of nanotechnology applications in drug delivery systems and covers a variety of technologies and materials that help in achieving vast variation in the particle size needed in technology and drug delivery based research It discusses nanotechnology s use in healthcare for the development of target specific drug therapy and smart field systems and in the pharmaceutical industry to improve the quality efficacy and shelf life of medicines Bringing together principles theory practice and applications of nanotechnology the book is a useful resource for chemists physicists biomedical researchers engineers advanced undergraduate and graduate level students in nanotechnology researchers in pharmaceutical sciences chemistry biology biotechnology engineering and general readers in nanotechnology

Sustainable Preparation of Metal Nanoparticles Rafael Luque,Rajender S. Varma,2013 This timely publication bridges and presents the latest trends and updates in three hot topics of current and future society nanomaterials energy and environment It provides the state of the art as well as current challenges and advances in the sustainable preparation of metal nanoparticles and their applications The book fills a critical gap in a multidisciplinary area of high economic social and environmental importance Currently there are no books published that deal with these ever increasing important topics as most books in this area focus on a particular topic eg nanomaterials or catalysis or energy or environment This is the first multidisciplinary edited book covering the very basics to the more advanced trendy developments containing a unique blend of nano green renewable and bio Nanotechnology for the Regeneration of Hard and Soft Tissues Thomas J. Webster,2007 The future growth and development of Asia the most dynamic economic region in the world today will have important implications for the rest of the global economy This book offers a futuristic perspective of a wide array of developmental challenges and opportunities facing Asian economies over the next two decades The future is approached from several different developmental paradigms including technological change and innovation regional cooperation within Asia and between Asia and the West poverty reduction ethics and corruption and environmental challenges Future prospects for the two giant economies of China and India are also explored By offering a comprehensive look at the medium term future of Asia from such a wide range of different viewpoints this fascinating book will interest economists social scientists politicians

international investment managers and the general public alike *Nanomedicine in Drug Delivery* Arun Kumar, Heidi M. Mansour, Adam Friedman, Eric R. Blough, 2013-06-05 There is a clear need for innovative technologies to improve the delivery of therapeutic and diagnostic agents in the body Recent breakthroughs in nanomedicine are now making it possible to deliver drugs and therapeutic proteins to local areas of disease or tumors to maximize clinical benefit while limiting unwanted side effects Nanomedicine in Drug Delivery gives an overview of aspects of nanomedicine to help readers design and develop novel drug delivery systems and devices that build on nanoscale technologies Featuring contributions by leading researchers from around the world the book examines The integration of nanoparticles with therapeutic agents The synthesis and characterization of nanoencapsulated drug particles Targeted pulmonary nanomedicine delivery using inhalation aerosols The use of biological systems bacteria cells viruses and virus like particles as carriers to deliver nanoparticles Nanodermatology and the role of nanotechnology in the diagnosis and treatment of skin disease Nanoparticles for the delivery of small molecules such as for gene and vaccine delivery The use of nanotechnologies to modulate and modify wound healing Nanoparticles in bioimaging including magnetic resonance computed tomography and molecular imaging Nanoparticles to enhance the efficiency of existing anticancer drugs The development of nanoparticle formulations Nanoparticles for ocular drug delivery Nanoparticle toxicity including routes of exposure and mechanisms of toxicity The use of animal and cellular models in nanoparticles safety studies With its practical focus on the design synthesis and application of nanomedicine in drug delivery this book is a valuable resource for clinical researchers and anyone working to tackle the challenges of delivering drugs in a more targeted and efficient manner It explores a wide range of promising approaches for the diagnosis and treatment of diseases using cutting edge nanotechnologies **Nanotoxicology for Agricultural and Environmental Applications** Mahendra Rai, Indarchand Gupta, 2024-03-19 Published as part of Elsevier's series Nanobiotechnology for Plant Protection Nanotoxicology for Agricultural and Environmental Applications provides an introduction to nanotechnology and its applications in agriculture and the environment Divided into five parts this book addresses nanotechnology and regulations nanotoxicity nanotoxicity to agriculture and food nanotoxicity to the environment and risk management measures to avoid exposure Students practitioners and researchers working in plant science agricultural science nanoscience and environmental chemistry alike will benefit from this necessary reference Highlights the factors contributing to toxic effects of nanoparticles including shape size structure surface charge and dosage Explores the mode of action and entry of nanoparticles methods of toxicity evaluation and the associated challenges Describes recent developments in nanotoxicity to soil ecosystems crop plants and food systems Emphasizes the impact of nanoparticles and their detoxification by plants on the nutritional quality of food and plants Discusses the impact of toxicity of nanoparticles released in air soil and water and methods to reduce their effects **Molecular mechanisms and physiology of disease** Nilanjana Maulik, Tom Karagiannis, 2014-05-31 In a simplified form epigenetics refers to heritable changes in phenotype that

are not due to changes in the underlying DNA sequence In this book epigenetic mechanisms of regulation and dysregulation in health and disease are explored in great depth Detailed chapters on epigenetic processes including DNA methylation and chromatin post translational modifications including potential interventions with DNA methyltransferase inhibitors and histone deacetylase inhibitors are explored in initial chapters These provide a detailed overview and important background to the entire field The book is then focussed on epigenetic mechanisms involved in various diseases including anti inflammatory and autoimmune conditions Important accounts relating to the effects of epigenetics in metabolic syndrome cardiovascular disease and asthma are the focus of subsequent chapters The role of epigenetic dysregulation in malignancy is a current topic of interest and represents an intense field of research A large component of this book is dedicated to the analysis of aberrant epigenetic processes in carcinogenesis and cancer progression Further chapters are focused on emerging cancer prevention using nutritional components and anti cancer therapies particularly with histone deacetylase inhibitors which have already been approved for the treatment of cutaneous T cell lymphoma The emerging role of nanoparticle preparations especially in the context of delivering potential epigenetic therapies to target cells in various diseases is also explored in this book Overall this book encompasses a wide range of topics related to epigenetic mechanisms in health and disease and would appeal to anyone with an interest in epigenetics chromatin biology and emerging epigenetic interventions and therapies

Biomedical Engineering Hossein Hosseinkhani, 2022-11-01 Biomedical Engineering An exploration of materials processing and engineering technology across a wide range of medical applications The field of biomedical engineering has played a vital role in the progression of medical development technology Biomedical Engineering Materials Technology and Applications covers key aspects of the field from basic concepts to advanced level research for medical applications The book stands as a source of inspiration for research on materials as well as their development and practical application within specialized industries It begins with a discussion of what biomedical engineering is and concludes with a final chapter on the advancements of biomaterials technology in medicine Offers comprehensive coverage of topics including biomaterials tissue engineering bioreceptor interactions and various medical applications Discusses applications in critical industries such as biomedical diagnosis pharmaceuticals drug delivery cancer detection and more Serves as a reference for those in scientific medical and academic fields Biomedical Engineering takes an interdisciplinary look at how biomedical science and engineering technology are integral to developing novel approaches to major problems such as those associated with disease diagnosis and drug delivery By covering a full range of materials processing and technology related subjects it shares timely information for biotechnologists material scientists biophysicists chemists bioengineers nanotechnologists and medical researchers

Applications of Nanoparticles in Chemistry and Allied Sciences Shazia Syed, 2024-11-01 Nanoparticles though incredibly small are giants in the world of science and technology The present book is a journey into the fascinating world of these microscopic wonders illustrating how they are making significant strides in various fields including medicine

electronics and environmental science At the heart of this exploration is an understanding of what nanoparticles are entities so minute yet so powerful in their ability to change material properties The book delves into how these particles behave differently from their larger counterparts revealing a world where size and composition open up a plethora of possibilities As we look to the future the book sheds light on the evolving landscape of nanotechnology It talks about the need for regulations the ethical considerations and the endless possibilities that nanoparticles bring to various industries This book is more than just a scientific treatise it is a narrative that brings the microscopic to the macroscopic level of understanding *New Frontiers in Environmental Toxicology* Tanu Jindal, 2021-09-21

This volume provides up to date information on toxic pollutants in the environment and their harmful effects on human health and nature The book covers many important aspects of environmental toxicology such as features characterization applications environmental routes for dispersion nanotoxicity ecotoxicity and genotoxicity of nanomaterials with emphasis on radiation toxicology polar ecotoxicology plastic toxicology microbial toxicology nanotoxicology and pesticide toxicology Also discussed is the use of microbes and nanotechnology for medicinal purposes which has revealed important chemical prototypes in the discovery of new agents stimulating the use of refined physical techniques and new syntheses of molecules with pharmaceutical applications for human welfare The chapters also address the fate of nanoparticles in the environment as well as nanotoxicology mechanisms impacting human health The book will be of interest to toxicologists environmental scientists chemists and students of microbiology nanotechnology and pharmacology Theory and Applications of Nonparenteral Nanomedicines Prashant

Kesharwani, Sebastien Taurin, Khaled Greish, 2020-09-12 *Theory and Applications of Nonparenteral Nanomedicines* presents thoroughly analysed data and results regarding the potential of nanomedicines conceived by diverse non parenteral routes In the context of nanotechnology based approaches various routes such as oral pulmonary transdermal delivery and local administration of nanomedicine have been utilized for the delivery of nanomedicine This book discusses the non parenteral application of nanomedicine its regulatory implications application of mucus penetrating nanocarrier and detailed chapters on development of nanomedicines developed for drug delivery by various route Beginning with a brief introduction to the non parenteral delivery of nanomedicine and the safety and regulatory implications of the nanoformulations further chapters discuss the physiology of the biological barriers the specificity of the nanocarriers as well as their multiple applications *Theory and Applications of Nonparenteral Nanomedicines* helps clinical researchers researchers working in pharmaceutical industries graduate students and anyone working in the development of non parenteral nanomedicines to understand the recent progress in the design and development of nanoformulations compatible with non parenteral applications Contains a comprehensive review of non parenteral nanomedicines Provides analysis of non parenteral methods of nanomedicines including regulatory implications and future applications Explores a wide range of promising approaches for non parenteral drug delivery using the latest advancement in nanomedicine written by experts in industry and academia

The Enigmatic Realm of **Nanoparticles In The Lung Environmental Exposure And Drug Delivery**: Unleashing the Language is Inner Magic

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