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Anil Kishen  
*Editor*

# Nanotechnology in Endodontics

Current and Potential  
Clinical Applications

 Springer

# Nanotechnology In Endodontics Current And Potential Clinical Applications

**Karthikeyan Subramani, Waqar Ahmed**



## **Nanotechnology In Endodontics Current And Potential Clinical Applications:**

Nanotechnology in Endodontics Anil Kishen, 2015 This book provides detailed information on the emerging applications of nanomaterials and nanoparticles within endodontics highlighting the exciting potential clinical impact of nanotechnology in the field The range of applications covered is diverse encompassing drug and gene delivery tissue engineering antibacterial strategies dentin tissue stabilization dentin pulp regeneration and use in restorative and endodontic materials Important scientific background information relating to each application is provided with clear coverage of basic principles In addition potential pitfalls are identified and explained The cytotoxicity of nanomaterials and nanoparticles is also addressed in a separate chapter The book will be of value both for endodontic practitioners and for all scientists and graduate students who are interested in the application of nanotechnology in endodontics *Biomaterials in Endodontics* Zohaib Khurshid, Muhammad Zafar, Shariq Najeeb, Jithendra Ratnayake, 2021-10-26 Biomaterials in Endodontics offers an up to date overview of endodontic biomaterials and their applications in regenerative medicine and tissue engineering This book details the key biomaterials used in clinical endodontics and the benefits and challenges of using these materials from root canal obturation materials to alloys for endodontic files and hand instruments Chapters also offer a unique insight into the regenerative applications of endodontic biomaterials such as the use of stem cells and growth factors for bone regeneration Biomaterials in Endodontics is a useful resource for researchers working in biomedical engineering regenerative medicine and materials science with an interest in dentistry and bone regeneration This book is also a helpful guide for endodontists dentists dental scientists and clinicians with an interest in biomaterials for endodontics Details the latest innovations in materials used for endodontic procedures Offers a unique insight into regenerative applications of endodontic biomaterials Appeals to an interdisciplinary readership combining materials science regenerative medicine and biomedical engineering approaches Smart Nanomaterials for Infectious Diseases Suvadhan Kanchi, Nidhi Sharotri, Rajasekhar Chokkareddy, Deepali Sharma, Falah H Hussein, 2024-03-25 In recent years there has been a lot of interest in using nanotechnology in medicine to diagnose and cure various infectious diseases Although the precise mechanism of action is frequently challenged many nanosized materials have been extensively explored for this purpose using their innately unique features Their functionality has also been enhanced by the addition of various coatings such as those that increase chemical stability and stealth properties or contain targeting agents that lessen off target effects while producing effective smart nanoplateforms for the early detection treatment and possibly resolution of diseases This book aims to compile research and review articles that concentrate on the synthesis characterization and applications of nanomaterials such as nanoparticles with a focus on investigating novel ways to improve their properties and create new efficient diagnostic therapeutic or theranostic approaches with a clear understanding of how they work **Ayurvedic Herbal Preparations in Neurological Disorders** Murali Muralidhara, Padmanabhan S. Rajini, 2023-08-07 Ayurvedic Herbal Preparations in Neurological Disorders

provides a comprehensive and mechanistic understanding of the therapeutic potential of many ayurvedic herbal preparations in disease management Examining research data for evidence based ayurvedic approaches this volume begins with a focused introduction to major ayurvedic plants discussing various mechanisms underlying their neuromodulatory potential in preclinical and clinical settings Major subsets of ayurvedic plants are discussed including Bacopa monnieri Centella asiatica Withania somnifera and others This volume outlines the importance of integrative approaches along with existing treatments in the intervention management of Alzheimer s disease Parkinson s disease depressive mood disorders epilepsy schizophrenia and more More than a mere compilation of studies this volume identifies relevant gaps for future research avenues and encourages interdisciplinary collaboration and sharing of knowledge to together identify the most efficacious ayurvedic approaches Highlighting recent developments e g Ayurgenomics Ayurhar and other pertinent research for neuroprotection this book is crucial for anyone researching or working in the field of neurological disorder treatment and prevention Provides a focused introduction to major Ayurvedic plants and their therapeutic potential in the management of neurodegenerative diseases Discusses various mechanisms underlying the neuromodulatory potential of several ayurvedic herbal preparations in preclinical and clinical settings Examines major subsets of ayurvedic plants e g Bacopa monnieri Centella asiatica Withaniasomnifera and others and potential of several other plants in various neurological disorders Outlines the importance of integrative approaches along with existing treatments in the intervention management of depressive mood disorders epilepsy schizophrenia and more Highlights recent developments e g Ayurgenomics Ayurhar and other pertinent research for neuroprotection

*Agri-Nanotechnology: Innovations for Sustainable Agriculture and Environmental Restoration* Sukhvinder Singh Purewal,Vijay Gahlaut,Sandeep Kumar Dash,2025-09-26 As the global population rises and environmental challenges intensify the need for sustainable agricultural practices has never been more critical Agri Nanotechnology Innovations for Sustainable Agriculture and Environmental Restoration explores how nanoscale science is revolutionizing farming systems enhancing crop productivity reducing environmental footprints and fostering ecosystem resilience This comprehensive volume bridges the disciplines of nanoscience agriculture and environmental science presenting state of the art research real world applications and future directions From nanopesticides and nanofertilizers to smart delivery systems and soil remediation the book highlights innovative solutions designed to optimize resource use while protecting natural ecosystems Written by leading experts in the field this book serves as an essential reference for researchers agronomists environmental scientists policymakers and students seeking to harness the power of nanotechnology for a greener more productive planet

*Nanotechnology in Regenerative Medicine and Drug Delivery Therapy* Haiyan Xu,Ning Gu,2020-07-21 The book focuses on the application of nanotechnologies in scaffold guided tissue regeneration and in drug delivery systems for use in immunotherapy and overcoming drug resistance in cancer treatment It covers a variety of topics including nanomaterials for immunomodulation and immnunotherapy molecular studies on self

assembly for peptides and DNA and related applications in tumor diagnosis and therapeutics and against human pathogenic bacteria magnetic and conductive scaffolds for guiding tissue regeneration multiple functions of magnetic nanoparticles in drug delivery and regenerative medicine and re purposing of traditional medicine in nano formulations In addition it discusses common effects of nanomaterials including reactive oxygen species and protein corona Providing valuable insights and the presenting the latest research advances the book allows readers to gain a systematic understanding of the topic

**Nanobiotechnology** Alok Dhawan, Sanjay Singh, Ashutosh Kumar, Rishi Shanker, 2018-03-26 This book combines the contributions from the experts of material science molecular biology toxicology bio organic and bio inorganic chemistry toxicologists and environmental and food technology etc to fathom the full scope of current and future of developments in the area of Nanobiotechnology Provides brief overview of nanobiotechnology for general readers who are not familiar with the research fields and presents a strong overview of most of the critical areas in field This book can also be used as text book for graduate students as an essential reference material and as an reading material for general readers having a curiosity in Nanobiotechnology

Dental Applications of Nanotechnology Ramesh S. Chaugule, 2018-08-29 This book discusses current trends and potential areas of nanotechnology applications in dental materials Dentistry is undergoing yet another change to benefit mankind via the discipline of nanodentistry A variety of nanostructures such as nanorobots nanospheres nanofibers nanorods etc have been studied for various applications in dentistry and medicine Preventive dentistry has also utilized nanodentistry to develop the nanomaterials for inclusion in a variety of oral health care products Methods to prevent and combat dental problems have been devised discussed and implemented since ancient times however there is a constant need for improved tools and techniques This book is relevant academically for undergraduate and post graduate dental students dental practitioners researchers and faculties of dental universities as this book explores the application of various nanobiomaterials in dentistry discusses current research in dental nanomaterials and potential future areas of interest and examines the use of nanotechnology in various fields of dentistry

Emerging Nanotechnologies in Dentistry Karthikeyan Subramani, Waqar Ahmed, 2011-11-15 New nanomaterials are leading to a range of emerging dental treatments that utilize more biomimetic materials that more closely duplicate natural tooth structure or bone in the case of implants The use of nanostructures that will work in harmony with the body's own regenerative processes eg to restore tooth structure or alveolar bone are moving into clinical practice This book brings together an international team of experts from the fields of nanomaterials biomedical engineering and dentistry to cover the new materials and techniques with potential for use intra orally or extra orally for the restoration fixation replacement or regeneration of hard and soft tissues in and about the oral cavity and craniofacial region New dental nanotechnologies include the use of advanced inorganic and organic materials smart and biomimetic materials tissue engineering and drug delivery strategies Book prepared by an interdisciplinary and international group of bio nanomaterial scientists and dental oral biomedical researchers Comprehensive professional

reference for the subject covering materials fabrication and use of materials for all major diagnostic and therapeutic dental applications repair restoration regeneration implants and prevention Book focuses in depth on the materials manufacturing processes involved with emphasis on pre clinical and clinical applications use and biocompatibility *Nanotechnology and Nanomaterials in the Treatment of Life-threatening Diseases* Narendra Kumar,Rajiv Kumar,2013-12-05 Nanotechnology and Nanomaterials in the Treatment of Life threatening Diseases takes a scientific approach to nanotechnology and nanomaterials applications in medicine while also explaining the core biological principles for an audience of biomedical engineers materials scientists pharmacologists and medical diagnostic technicians The book is structured by major disease groups offering a practical application based focus for scientists engineers and clinicians alike The spectrum of medical applications is explored from diagnostics and imaging to drug delivery monitoring therapies and disease prevention It also focuses specifically on the synthesis of nanomaterials and their potential health risks particularly toxicity Nanomedicine the application of nanomaterials and devices for addressing medical problems has demonstrated great potential for enabling improved diagnosis treatment and monitoring of many serious illnesses including cancer cardiovascular and neurological disorders HIV AIDS and diabetes as well as many types of inflammatory and infectious diseases Gain an understanding of how nanotechnologies and nanomaterials can be deployed in the fight against the major life threatening diseases cancer neurological disorders including Alzheimer s and Parkinson s cardiovascular diseases and HIV AIDS Discover the latest developments in nanomedicine from therapies and drug delivery to diagnostics and disease prevention The authors cover the health risks of nanomaterials as well as their benefits considering toxicity and potential carcinogens *Advances and Challenges in Nanomedicine* Susan Hua,Sherry Y. Wu,2019-02-28 Nanotechnology is a multidisciplinary field that is revolutionizing the way we detect and treat damage to the human body Nanomedicine applies nanotechnology to highly specific medical interventions for the prevention diagnosis and treatment of diseases They are increasingly being used to overcome biological barriers in the body to improve the way we deliver compounds to specific tissues and organs In particular nanomedicines have been shown to be beneficial for stabilizing therapeutic compounds overcoming obstacles to cellular and tissue uptake and improving biodistribution of compounds to target sites in vivo Nanomedicines have demonstrated significant therapeutic advantages for a multitude of biomedical applications however the clinical translation of these nanotechnology platforms has not progressed as quickly as the plethora of positive results would have suggested Understanding the advances in nanomedicine to date and the challenges that still need to be overcome will allow future research to improve on existing platforms and to address the current translational and regulatory limitations This eBook *Advances and Challenges in Nanomedicine* has brought together experts in the fields of nanomedicine nanotechnology nanotoxicology pharmaceuticals manufacturing and translation to discuss the application of nanotechnology to drug delivery This information is presented as original research opinion perspective and review articles The goal of this eBook is to

generate collaborative discussion on the current status general trends challenges strategies and future direction of pharmaceutical nanotechnology as well as highlight current and emerging nanoparticulate platforms with potential medical applications      **Nanotechnology in Conservative Dentistry** Mona Ismail Riad, Shereen Hafez Ibrahim, 2021-07-24

Nanotechnology in Conservative Dentistry provides a detailed review of the use of nanotechnology in conservative dentistry from diagnosis and restorative materials through to tissue engineering and regeneration This book covers fundamental topics in the field of conservative dentistry including caries therapy dentin reconstruction pulp protection and more each chapter reviews and discusses how nanotechnology can be implemented as a novel approach to traditional conservative dentistry techniques exploring the many uses and advantages of this fast growing technology Various nanobiomaterials and technologies are covered as well as assessment of the biocompatibility and toxicological risks of utilizing nanotechnology in dentistry Nanotechnology in Conservative Dentistry will help dentists and materials science academics alike understand the potential of nanotechnology in dentistry building on and going beyond traditional concepts and techniques in this field Reviews key topics in conservative dentistry including dentin reconstruction enamel synthesis detection of microcavities and more Covers a range of nanobiomaterials and nanotechnologies as well as health and safety aspects of using these in dentistry Appeals to a wide readership including dentists dental surgeons academics and students materials scientists and biomedical engineers with an interest in nanotechnology and dentistry      *Advances in Nanomaterials in Biomedicine* Elena I. Ryabchikova, 2021-09-01 Advances in Nanomaterials in Biomedicine provided a platform for more than 110 researchers from different countries to present their latest investigations in various fields of nanotechnology new methods and nanomaterials intended for medical applications Modern achievements in the field of nanoparticle based diagnostics drug delivery and the use of various nanomaterials in the treatment of diseases are presented in 11 original articles The published reviews provide a comprehensive analysis of the current information on the use of nanomedicine in the treatment and diagnosis of cancer and liver fibrosis in the field of solid tissue engineering and in drug delivery systems      *Nanotechnology For Medicine* Sabu Thomas, Yarub Al-Douri, 2025-12-05 Nanotechnology for Medicine is a multi contributed book for the most recent and comprehensive information on the foundations and applications of nanotechnology in medicine With the contribution of experts from across the globe this edited book covers all the major areas of nanotechnology within the area of medicine It surveys the principles analysis characterization applications and technology of nanomedicine for cancer treatment antimicrobials antibiotics microbials dentistry gene therapy biological therapies ocular diseases diagnostics targeting of tumor cells herbal sources drug delivery and biomedical and food and nutrition applications The book also offers methodological considerations for toxicity safety and risk assessment This book is a useful reference for nanotechnologists nanoscientists medical scientists research fellows graduates and university libraries      *Nanomaterials in Dental Medicine* Sabu Thomas, R. M. Baiju, 2023-04-03 This book presents varied clinical applications of nanomaterials in dentistry ranging

from diagnostics to therapeutics it discusses role of nanomaterials in clinical applications and future needs Contributors are international luminaries in their respective research area The topics covered in this book are role of nanomaterials in oral and dental diagnosis dental disease prevention pain free dentistry dental implantology It also discusses the therapeutic applications of nanoparticles in oral cancer therapy This book will be a valuable reference for researchers clinicians students and professionals working in the areas of nanotechnology and health sciences It will also be of interest to the students and researchers primarily working in the field of materials science applied chemistry applied physics and biotechnology

*Nanotechnology for Dentistry Applications* Ashutosh Kumar Shukla, 2021-12-19 This volume covers Nanotechnology applications in general dentistry dental specialties as well as discussing the current research trends and their potential applications

Applications of Nanomaterials in Dentistry Prashant Kesharwani, 2025-10-01 Applications of Nanomaterials in Dentistry offers an extensive overview of the properties biological characteristics advantages limitations actions and future prospects of various nanoparticles It delves into innovative strategies centered on nanotechnology based drug delivery systems in dental healthcare This book serves as an invaluable reference for researchers and scientists aiming to comprehend the pivotal role of nanoparticles in dentistry addressing advanced strategies like implant and tissue engineering safety considerations toxicity and the promising future applications of nanotechnology in this field Nanoparticles are promising agents for enhancing dental care due to their unique characteristics such as a high surface to volume ratio antibacterial properties physical mechanical and biological features and distinctive particle size The book thoroughly explores the applications of nanotechnology including improving dental materials and techniques It also examines the potential of nanotechnology to revolutionize dental treatments and therapies ensuring better patient outcomes and advancing the field of dental science Explores various approaches for the diagnosis and treatment of a range of dental diseases using nanomedical technologies Discusses nanomedicine based drug delivery methods spanning from foundational concepts to the latest applications Outlines the current research progress and findings in a comprehensive manner using several tables illustrations and flowcharts

Bionanomaterials for Dental Applications Mieczyslaw Jurczyk, 2012-10-26 This book introduces readers to the structure and characteristics of nanomaterials and their applications in dentistry With currently available implant materials the clinical failure rate varies from a few percent to over 10 percent and new materials are clearly needed Nanomaterials offer the promise of higher strength better bonding less toxicity and enhanced cytocompatibility leading to increased tissue regeneration Mieczyslaw Jurczyk director of the Institute of Materials Science and Engineering at the Poznan University of Technology in Poland has drawn from work in his laboratory and elsewhere in Poland to show that nanomaterials have important biological applications including in the stomatognathic system consisting of mouth jaws and associated structures The book is written from a materials science and medical point of view and has 13 chapters and about 400 pages The book can be divided approximately into three sections the first five chapters introduce



nanobiomaterials the next five chapters describe their dental applications and the last chapters describe their biocompatibility Chapter 3 is a compendium on metallic biomaterials such as stainless steel cobalt alloys and titanium alloys bioactive bioresorbable polymers and composites and ceramic biomaterials The top down approach to producing nanomaterials such as high energy ballmilling and severe plastic deformation as well as Feynman s bottom up technique of building atom by atom are discussed in the next chapter Subsequent chapters discuss each material in depth and point out how new architectures and properties emerge at the nanoscale Chapter 8 is devoted to shape memory materials which now include not only NiTi but also polymers and magnetic materials In order to improve bonding nanomaterials can be used to synthesize implants with surface roughness similar to that of natural tissues Chapter 9 is devoted to different surface treatments for Ti based nanomaterials such as anodic oxidation to improve the bioactivity of titanium and improve the corrosion resistance of porous titanium and its alloys The use of carbon in various forms nanoparticles nanofibers nanotubes and thin films is discussed next with emphasis on the microstructure and properties of these materials their implant applications and their interaction with subcutaneous tissues Nanomaterials can be used in preventive dentistry and therefore can reduce the amount of dental treatment that is necessary to maintain a healthy mouth as argued in chapter 11 In a subsequent chapter the author explains osseointegration direct bone to metal interface from a biological point of view and early tissue response The mechanism of the interaction between the implanted materials with the cellular protein in the tissues is described The last chapter discusses the application of new nanostructured materials in permanent and bioresorbable implants nanosurface dental implants and nanostructured dental composite restorative materials This book not only focuses on nanomaterials but also on nanoengineering to achieve the best results in dentistry It is recommended to anyone interested in nanomaterials and their applications in dental science People with a background in materials chemistry physics and biology will benefit from it

*Emerging Nanotechnologies in Dentistry* Karthikeyan Subramani, Waqar Ahmed, 2017-10-30 *Emerging Nanotechnologies in Dentistry* Second Edition brings together an international team of experts from the fields of materials science nanotechnology and dentistry to explain these new materials and their applications for the restoration fixation replacement or regeneration of hard and soft tissues in and about the oral cavity and craniofacial region New nanomaterials are leading to a range of emerging dental treatments that utilize more biomimetic materials that more closely duplicate natural tooth structure or bone in the case of implants Each chapter has been comprehensively revised from the first edition and new chapters cover important advances in graphene based materials for dentistry liposome based nanocarriers and the neurotoxicity of nanomaterials used in dentistry Offers a comprehensive professional reference for the subject covering materials fabrication and use of materials for all major diagnostic and therapeutic dental applications repair restoration regeneration implants and prevention Focuses in depth on the materials manufacturing processes involved with emphasis on pre clinical and clinical applications use and biocompatibility Examines the use of novel

nanomaterials including graphene in dentistry exploring how these may best be used      **Current Advances in the Medical Application of Nanotechnology** Mark Slevin, 2018-02-22 Nanotechnology promises new medical therapies more rapid and sensitive diagnostic and investigative tools for normal and diseased tissues and new materials for tissue engineering This book highlights the major current uses new technologies and future perspectives of nanotechnology in relation to medical applications Sections in this book include nanobiological approaches to imaging diagnosis and treatment of disease using targeted monoclonal antibodies and siRNA the medical use of nanomaterials to nanoelectronic biosensors and possible future applications of molecular nanotechnology for cell repair The book also covers current problems associated with nanotechnology including an understanding of issues related to toxicity and the environmental impact of nanoscale materials The book should be of interest to biomedical technologists medical doctors and students of taught courses in nanotechnology at both undergraduate and post graduate MSc levels

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## **Table of Contents Nanotechnology In Endodontics Current And Potential Clinical Applications**

1. Understanding the eBook Nanotechnology In Endodontics Current And Potential Clinical Applications
  - The Rise of Digital Reading Nanotechnology In Endodontics Current And Potential Clinical Applications
  - Advantages of eBooks Over Traditional Books
2. Identifying Nanotechnology In Endodontics Current And Potential Clinical Applications
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Nanotechnology In Endodontics Current And Potential Clinical Applications
  - User-Friendly Interface

4. Exploring eBook Recommendations from Nanotechnology In Endodontics Current And Potential Clinical Applications
  - Personalized Recommendations
  - Nanotechnology In Endodontics Current And Potential Clinical Applications User Reviews and Ratings
  - Nanotechnology In Endodontics Current And Potential Clinical Applications and Bestseller Lists
5. Accessing Nanotechnology In Endodontics Current And Potential Clinical Applications Free and Paid eBooks
  - Nanotechnology In Endodontics Current And Potential Clinical Applications Public Domain eBooks
  - Nanotechnology In Endodontics Current And Potential Clinical Applications eBook Subscription Services
  - Nanotechnology In Endodontics Current And Potential Clinical Applications Budget-Friendly Options
6. Navigating Nanotechnology In Endodontics Current And Potential Clinical Applications eBook Formats
  - ePub, PDF, MOBI, and More
  - Nanotechnology In Endodontics Current And Potential Clinical Applications Compatibility with Devices
  - Nanotechnology In Endodontics Current And Potential Clinical Applications Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Nanotechnology In Endodontics Current And Potential Clinical Applications
  - Highlighting and Note-Taking Nanotechnology In Endodontics Current And Potential Clinical Applications
  - Interactive Elements Nanotechnology In Endodontics Current And Potential Clinical Applications
8. Staying Engaged with Nanotechnology In Endodontics Current And Potential Clinical Applications
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Nanotechnology In Endodontics Current And Potential Clinical Applications
9. Balancing eBooks and Physical Books Nanotechnology In Endodontics Current And Potential Clinical Applications
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Nanotechnology In Endodontics Current And Potential Clinical Applications
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Nanotechnology In Endodontics Current And Potential Clinical Applications
  - Setting Reading Goals Nanotechnology In Endodontics Current And Potential Clinical Applications

- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Nanotechnology In Endodontics Current And Potential Clinical Applications
  - Fact-Checking eBook Content of Nanotechnology In Endodontics Current And Potential Clinical Applications
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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