



Review

Green nanotechnology – A new hope for medical biology



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ARTICLE INFO

Article history:

Received 26 June 2013

Received in revised form

29 August 2013

Accepted 4 September 2013

Available online 13 September 2013

Keywords:

Nanoparticles

Green synthesis

Chemical synthesis

Biological application

ABSTRACT

The development of eco-friendly technologies in material synthesis is of considerable importance to expand their biological applications. Nowadays, a variety of green nanoparticles with well-defined chemical composition, size, and morphology have been synthesized by different methods and their applications in many cutting-edge technological areas have been explored. This review highlights the classification of nanoparticles giving special emphasis on biosynthesis of metal nanoparticle by viable organisms. It also focuses on the applications of these biosynthesized nanoparticles in a wide spectrum of potential areas of medical biology including catalysis, targeted drug delivery, cancer treatment, antibacterial agents and as biosensors.

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<http://dx.doi.org/10.1016/j.etap.2013.09.002>

Green Nanotechnology A New Hope For Medical Biology **Scienceworldlibcom**

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Kumar, Rishi Shanker**



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Nanotechnology in Medicine and Biology Huinan H. Liu, Tolou Shokuhfar, Sougata Ghosh, 2021-11-13 Nanotechnology in Medicine and Biology brings together a multidisciplinary team of experts from the fields of materials science nanotechnology medicine and biomedical engineering to introduce new nanoscale biomaterials and their applications diagnosis and treatment of disorders of the human body The book presents the fundamentals for understanding the design properties and selection of nanobiomaterials as well as their real world applications in medicine Each chapter addresses current regulations manufacturing processes and translation issues of nanobiomaterials for key applications A discussion of current protocols and their benefits and disadvantages is also included This book provides comprehensive background and knowledge in the field of nanobiomaterials that is suitable for academics scientists and clinicians Provides fundamental understanding on the design properties and selection of biomaterials for applications in medicine and biology Reviews current regulations protocols manufacturing processes and translation issues of nanobiomaterials for medical applications Discusses tissue repair wound healing regenerative medicine drug delivery imaging and medical device applications **Nano Comes to Life** Sonia Contera, 2019-11-05 The nanotechnology revolution that will transform human health and longevity Nano Comes to Life opens a window onto the nanoscale the infinitesimal realm of proteins and DNA where physics and cellular and molecular biology meet and introduces readers to the rapidly evolving nanotechnologies that are allowing us to manipulate the very building blocks of life Sonia Contera gives an insider's perspective on this new frontier revealing how nanotechnology enables a new kind of multidisciplinary science that is poised to give us control over our own biology our health and our lives Drawing on her perspective as one of today's leading researchers in the field Contera describes the exciting ways in which nanotechnology makes it possible to understand interact with and manipulate biology such as by designing and building artificial structures and even machines at the nanoscale using DNA proteins and other biological molecules as materials In turn nanotechnology is revolutionizing medicine in ways that will have profound effects on our health and longevity from nanoscale machines that can target individual cancer cells and deliver drugs more effectively to nanoantibiotics that can fight resistant bacteria to the engineering of tissues and organs for research drug discovery and transplantation The future will bring about the continued fusion of nanotechnology with biology physics medicine and cutting edge fields like robotics and artificial intelligence ushering us into a new transmaterial era As we contemplate the power advantages and risks of accessing and manipulating our own biology Contera offers insight and hope that we may all share in the benefits of this revolutionary research Green Nanoparticles Jayanta Kumar Patra, Leonardo F. Fraceto, Gitishree Das, Estefânia Vangelie Ramos Campos, 2020-04-06 Nanotechnology is the application of science to control matter at the molecular level It has become one of the most promising applied technologies in all areas of science Nanoparticles have multi functional properties and have created very interesting applications in various fields such as medicine nutrition bioenergy agriculture and the

environment But the biogenic syntheses of monodispersed nanoparticles with specific sizes and shapes have been a challenge in biomaterial science Nanoparticles are of great interest due to their extremely small size and large surface to volume ratio which lead to both chemical and physical differences in their properties e g mechanical properties biological and sterical properties catalytic activity thermal and electrical conductivity optical absorption and melting point compared to bulk of the same chemical composition Recently however synthesizing metal nanoparticles using green technology via microorganisms plants viruses and so on has been extensively studied and has become recognized as a green and efficient way for further exploiting biological systems as convenient nanofactories Thus the biological synthesis of nanoparticles is increasingly regarded as a rapid ecofriendly and easily scaled up technology Today researchers are developing new techniques and materials using nanotechnology that may be suitable for plants to boost their native functions Recently biological nanoparticles were found to be more pharmacologically active than physico chemically synthesized nanoparticles Various applications of biosynthesized nanoparticles have been discovered especially in the field of biomedical research such as applications to specific delivery of drugs use for tumor detection angiogenesis genetic disease and genetic disorder diagnosis photoimaging and photothermal therapy Further iron oxide nanoparticles have been applied to cancer therapy hyperthermia drug delivery tissue repair cell labeling targeting and immunoassays detoxification of biological fluids magnetic resonance imaging and magnetically responsive drug delivery therapy Nanoparticle synthesis for plant byproducts for biomedical applications has vast potential This book offers researchers in plant science and biomedicine the latest research and opportunity to develop new tools for the synthesis of environmentally friendly and cost effective nanoparticles for applications in biomedicine as well as other various fields

Nanotechnology for Biology and Medicine Gabriel A. Silva, Vladimir Parpura, 2011-10-22 This text book will bring together a mix of both internationally known and established senior scientists along side up and coming but already accomplished junior scientists that have varying expertise in fundamental and applied nanotechnology to biology and medicine

Nanotechnology in Biology and Medicine Tuan Vo-Dinh, 2017-10-03 The second edition of Nanotechnology in Biology and Medicine is intended to serve as an authoritative reference source for a broad audience involved in the research teaching learning and practice of nanotechnology in life sciences This technology which is on the scale of molecules has enabled the development of devices smaller and more efficient than anything currently available To understand complex biological nanosystems at the cellular level we urgently need to develop a next generation nanotechnology tool kit It is believed that the new advances in genetic engineering genomics proteomics medicine and biotechnology will depend on our mastering of nanotechnology in the coming decades The integration of nanotechnology material sciences molecular biology and medicine opens the possibility of detecting and manipulating atoms and molecules using nanodevices which have the potential for a wide variety of biological research topics and medical uses at the cellular level This book presents the most recent scientific and technological advances of

nanotechnology for use in biology and medicine Each chapter provides introductory material with an overview of the topic of interest a description of methods protocols instrumentation and applications and a collection of published data with an extensive list of references for further details The goal of this book is to provide a comprehensive overview of the most recent advances in instrumentation methods and applications in areas of nanobiotechnology integrating interdisciplinary research and development of interest to scientists engineers manufacturers teachers and students *Nanotechnology in Biology and Medicine* Tuan Vo-Dinh, 2007-01-24 The combination of biology and nanotechnology has led to a new generation of nanodevices that make it possible to characterize the chemical mechanical and other molecular properties as well as discover novel phenomena and biological processes occurring at the molecular level These advances provide science with a wide range of tools for biomedical applications in therapeutic diagnostic and preventive medicine *Nanotechnology in Biology and Medicine Methods Devices and Applications* integrates interdisciplinary research and recent advances in instrumentation and methods for applying nanotechnology to various areas in biology and medicine Pioneers in the field describe the design and use of nanobiosensors with various analytical techniques for the detection and monitoring of specific biomolecules including cancer cells The text focuses on the design of novel bio inspired materials particularly for tissue engineering applications Each chapter provides introductory material including a description of methods protocols instrumentation and applications as well as a collection of published data with an extensive list of references An authoritative reference written for a broad audience *Nanotechnology in Biology and Medicine Methods Devices and Applications* provides a comprehensive forum that integrates interdisciplinary research to present the most recent advances in protocols methods instrumentation and applications of nanotechnology in biology and medicine *Green Nanomaterials* Kaushik Pal, 2022-02-16 Recent technological advancements in green nanotechnology have opened a brand new avenue for research and development in the field of medicinal plant mediated nanoparticles biopolymers biotechnology and antimicrobial and biomedical research This new volume explores several eco friendly technologies in green materials synthesis which are of considerable importance It takes an inter and cross multidisciplinary approach to the green chemistry of nanoengineering and green nanotechnology application in materials research It provides informative coverage of this exciting and dynamic new field as well as relates the fundamentals of soft nanomaterials fabrication and spectroscopic integration The book explores bio inspired self assembly green nanomaterials for multifunctional applications as well as the design and synthesis of green polymeric nanomaterials for several pharmaceutical and biomedical applications including biosensors drug delivery antimicrobial applications etc Also discussed is the fabrication of green polymer nanocomposites from waste and natural fibers such as chitin fiber chitin whisker fiber cellulose fiber nanocellulose fiber eggshells and cotton waste **Bio-Nanotechnology** Manashi Bagchi, Hiroyoshi Moriyama, Fereidoon Shahidi, 2012-11-26 Bio nanotechnology is the key functional technology of the 21st century It is a fusion of biology and nanotechnology based on the principles and chemical pathways of living

organisms and refers to the functional applications of biomolecules in nanotechnology. It encompasses the study, creation and illumination of the connections between structural molecular biology, nutrition and nanotechnology, since the development of techniques of nanotechnology might be guided by studying the structure and function of the natural nano molecules found in living cells. Biology offers a window into the most sophisticated collection of functional nanostructures that exists. This book is a comprehensive review of the state of the art in bio nanotechnology with an emphasis on the diverse applications in food and nutrition sciences, biomedicine, agriculture and other fields. It describes in detail the currently available methods and contains numerous references to the primary literature, making this the perfect field guide for scientists who want to explore the fascinating world of bio nanotechnology. Safety issues regarding these new technologies are examined in detail. The book is divided into nine sections: an introductory section plus Nanotechnology in nutrition and medicine, Nanotechnology health and food technology applications, Nanotechnology and other versatile applications, Nanomaterial manufacturing, Applications of microscopy and magnetic resonance in nanotechnology, Applications in enhancing bioavailability and controlling pathogens, Safety, toxicology and regulatory aspects, Future directions of bio nanotechnology. The book will be of interest to a diverse range of readers in industry, research and academia, including biologists, biochemists, food scientists, nutritionists and health professionals.

Nanotechnology for Biology and Medicine Gabriel A. Silva, Vladimir Parpura, 2011-10-21. This text book will bring together a mix of both internationally known and established senior scientists along side up and coming but already accomplished junior scientists that have varying expertise in fundamental and applied nanotechnology to biology and medicine.

Nanobiotechnology Rajesh Singh Tomar, Anurag Jyoti, Shuchi Kaushik, 2020-03-19. This new book Nanobiotechnology: Concepts and Applications in Health, Agriculture and Environment presents a broad conceptual overview regarding the synthesis, applications and toxicological aspects of nanobiotechnology. It focuses on the entrance into and interaction of nanomaterials in the human body, which has generated intense scientific curiosity, attracting much attention as well as increasing concern from the nanomaterial based industries and academia across the world. This book looks at the scientific aspects of nanomaterials used in many applications of biosciences, taking an interdisciplinary approach that encompasses medicine, biology, pharmacy, physics, chemistry, engineering, nanotechnology and materials science. The volume covers the basics of nanosciences and nanotechnology, different schemes and routes of synthesis and various biological applications, including sensing, medicine, drug delivery systems and remediation. Further, special chapters will be devoted to nanotoxicology and the developing risk factors associated with nanosized particles during use, along with the ethical issues related to nanobiotechnology.

Nanoparticles in Life Sciences and Biomedicine Ana Rute Neves, Salette Reis, 2018-02-13. The creation of new and more efficient therapies for improving human health greatly depends on drug delivery systems. Nanotechnology has emerged as a powerful strategy for the development of nanoparticles such as nanoemulsions, liposomes, nanocrystals and nanocomplexes applied in the diagnosis, treatment or theranostics of several pathologies and diseases. This

book reviews the most recent research and development in nanotechnology and following a multidisciplinary approach presents new strategies for drug delivery including aspects from chemistry physics biology and imaging methodologies and exploiting several administration routes internalization pathways site specific delivery strategies and the potential cytotoxicity of nanoparticles Beginning with a description of the importance and application of nanotechnology for enhancing existing therapy the book moves on to detailing oral topical pulmonary brain cancer and anti inflammatory drug delivery approaches gene delivery approaches theranostic approaches and nanoparticle cytotoxicity Practical and user friendly it is suitable for advanced undergraduate graduate and postgraduate students of nanoscience and nanotechnology researchers in nanoscience nanotechnology chemistry biology biochemistry pharmaceutical sciences medicine and bioengineering especially those with an interest in drug delivery or theranostics and academia and university readership *Nanomedicine and Nanobiotechnology* Stergios Logothetidis, 2012-01-15 This book presents the laboratory scientific and clinical aspects of nanomaterials used for medical applications in the fields of regenerative medicine dentistry and pharmacy It gives a broad overview on the in vitro compatibility assessment of nanostructured materials implemented in the medical field by the combination of classical biological protocols and advanced non destructive nano precision techniques with special emphasis on the topographical surface energy optical and electrical properties Materials in the physical form of nanoparticles nanotubes and thin films are addressed in terms of their toxicity The different pillars of the Nanomedicine field are also highlighted The book takes an interdisciplinary approach of medicine biology pharmacy physics chemistry engineering nanotechnology and materials science The international group of authors specifically chosen for their distinguished expertise belong to the academic and industrial world in order to provide a broader perspective It appeals to researchers and graduate students

An Introduction to Green Nanotechnology Mahmoud Nasrollahzadeh, Mohammad S. Sajadi, Monireh Atarod, Mohaddeseh Sajjadi, Zahra Isaabadi, 2019-02-19 An Introduction to Green Nanotechnology Volume 28 provides students scientists and chemical engineers with an overview of several types of nanostructures discusses the synthesis and characterization of nanostructures and provides applications of nanotechnology in daily life The book offers a foundation to green nanotechnology by explaining why green nanotechnology is important Covers biological sources in green nanotechnology antioxidants green nanostructures mechanism synthesis and characterization The book ends with an evaluation of the risks of nanotechnology in human life and future perspectives Introduces novel sources of plants having a high potential to be used as bio media to synthesize nanostructures Provides phytochemical properties and antioxidant potential and their effects on stability morphology and size of green nanostructures Includes a medicinal and technological comparison of green synthesized nanostructures to nano products from non green methods Uses accessible language avoiding complex concepts of mathematics biology and chemistry **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 a reading material for general readers having a curiosity in Nanobiotechnology

Nanotechnology and Human Health Ineke Malsch, Claude Emond, 2016-04-19 Addressing medium and long term expectations for human health this book reviews current scientific and technical developments in nanotechnology for biomedical agrofood and environmental applications This collection of perspectives on the ethical legal and societal implications of bionanotechnology provides unique insight into contemporary te

Eco-Friendly Nanotechnology: Harnessing Small-Scale Technologies for a Cleaner and Healthier Planet Shiv Pratap Singh, Priya Paneru, Krishan Kumar Singh, 2025-04-11 Rapid breakthroughs in nanotechnology have changed various scientific areas giving fresh solutions to global challenges However the environmental and health threats related with traditional nanomaterials have enforced a move to more sustainable approaches Eco Friendly Nanotechnology Harnessing Small Scale Technologies for a Cleaner and Healthier Planet analyses this evolving paradigm focusing eco friendly synthesis applications and nanotechnology s potential to support environmental sustainability This book aims to provide a comprehensive exploration of how nanotechnology when applied with an eco conscious mindset can drive innovation while minimizing adverse environmental impacts This book delves into the principles of green chemistry and nanotechnology exploring how renewable resources non toxic materials and energy efficient techniques can be utilized to create nanomaterials with minimal environmental impact It also analyses the role of green nanotechnology in a variety of areas including medical agricultural energy and water purification highlighting existing applications and future opportunities However its unchecked expansion raises concerns regarding toxicity waste management and ecological footprint Green nanotechnology seeks to harmonize scientific advancements with sustainability by designing safer nanomaterials optimizing resource efficiency and reducing hazardous byproducts This book delves into these critical aspects offering insights into cutting edge research novel applications and ethical considerations Throughout the chapters we examine the principles guiding green nanotechnology explore sustainable synthesis methods and discuss its implications for energy water purification agriculture and medicine Special attention is given to policy frameworks and regulatory approaches essential for fostering responsible development and commercialization of nanotechnologies This book intended for academics engineers policymakers students and professionals provides a comprehensive introduction to the sustainable integration of nanotechnology into science and industry By implementing green nanotechnology we can effort to fulfil the gap between innovation and environmental stewardship paving the way for a cleaner safer and more sustainable future Whether you are an academic exploring the theoretical foundations or an industry professional seeking practical

application this book aims to serve as a valuable resource By fostering a deeper understanding of green nanotechnology we hope to inspire innovation that aligns with environmental stewardship and societal well being We hope that this book will encourage readers to contribute to the advancement of green nanotechnology and its good impact on the world Through responsible innovation we can harness the power of nanotechnology to build a cleaner healthier and more sustainable future for generations to come

Nanobiotechnology: A Multidisciplinary Field of Science Basma A. Omran,2020-08-25 The generation of well defined nanoparticles of excellent size and shape involves physical and chemical methodologies that are complicated expensive and produce hazardous toxic waste that is harmful to the environment and to human health In order to combat the disadvantages of these methods scientists have created the biological method a new synthetic methodology that serves as a proper alternative to physical and chemical methodologies because of its easy utility low cost rapid synthesis controlled size characteristics controlled toxicity and eco friendliness Nanobiotechnology is the science in which living matter can be manipulated and exploited to produce materials within the nano scale It is a multidisciplinary field of science framed by biology chemistry engineering materials and life sciences Different biological entities can be exploited to yield biologically synthesized nanomaterials including bacteria actinomycetes yeast fungi viruses algae plant extracts and agro industrial waste extracts This book represents a comprehensive review concerning the state of the art in nanobiotechnology emphasizing the use of diverse biological entities in the science and its versatile applications It describes currently existing methodology with the latest published references and provides safety information It serves as the ideal guide for scientists interested in exploring nanobiotechnology

Nanobiotechnology Taylor & Francis Group,2021-12-13 This new book Nanobiotechnology Concepts and Applications in Health Agriculture and Environment presents a broad conceptual overview regarding the synthesis applications and toxicological aspects of nanobiotechnology It focuses on the entrance into and interaction of nanomaterials in the human body which has generated intense scientific curiosity attracting much attention as well as increasing concern from the nanomaterial based industries and academia across the world This book looks at the scientific aspects of nanomaterials used in many applications of biosciences taking an interdisciplinary approach that encompasses medicine biology pharmacy physics chemistry engineering nanotechnology and materials science The volume covers the basics of nanosciences and nanotechnology different schemes and routes of synthesis and various biological applications including sensing medicine drug delivery systems and remediation Further special chapters will be devoted to nanotoxicology and the developing risk factors associated with nanosized particles during use along with the ethical issues related to nanobiotechnology

Nanomaterials and Nanotechnology in Medicine Visakh P. M.,2022-09-12

NANOMATERIALS AND NANOTECHNOLOGY IN MEDICINE A comprehensive introduction to nanomaterials and their application in the field of medicine The use of nanotechnology and nanomaterials more generally is an emerging field that has generated a lot of interest in the last few years To this point there have been few books that deal with the recent

advances in nanomaterials or nanocomposites in the medical discipline Intended as a one stop reference Nanomaterials and Nanotechnology in Medicine provides the reader with the most up to date and comprehensive exploration of the field of nanomedicine The scope of the topic is huge with nano applications in every medical specialization from diagnostics to pharmaceuticals from biological therapies to surgical devices and from regenerative therapies to gene therapy As such this volume provides the most comprehensive coverage of this intriguing field of study Nanomaterials and Nanotechnology in Medicine readers will also find An application oriented book dedicated towards helping researchers find solutions to both fundamental and applied problems Chapters written by leading researchers from industry academy government and private research institutions across the globe Nanomaterials and Nanotechnology in Medicine is a useful reference for medical doctors medical practitioners post doctoral research fellows senior graduate students and medical libraries

The Nanobiotechnology Handbook Yubing Xie, 2012-11-16 A thorough overview of nanobiotechnology and its place in advances in applied science and engineering The Nanobiotechnology Handbook combines contributions from physics bioorganic and bioinorganic chemistry molecular and cellular biology materials science and medicine as well as from mechanical electrical chemical and biomedical engineering to address the full scope of current and future developments World class experts discuss the role of nanobiotechnology in bioanalysis biomolecular and biomedical nanotechnology biosensors biocatalysis and biofuel and education and workforce development It includes a companion CD that contains all figures in the book The book begins with discussions of biomimetic nanotechnology including a comprehensive overview of DNA nanostructure and DNA inspired nanotechnology aptamer functionalized nanomaterials as artificial antibodies artificial enzymes molecular motors and RNA structures and RNA inspired nanotechnology It shows how nanotechnology can be inspired by nature as well as adverse biological events in diagnostic and therapeutic development From there the chapters cover major important and widely used nanofabrication techniques applications of nanotechnology for bioprocessing followed by coverage of the applications of atomic force microscopy AFM optical tweezers and nanofluidics as well as other nanotechnology enabled biomolecular and cellular manipulation and detection Focusing on major research trends the book highlights the importance of nanobiotechnology to a range of medical applications such as stem cell technology and tissue engineering drug development and delivery imaging diagnostics and therapeutics And with coverage of topics such as nanotoxicity responsible nanotechnology and educational and workforce development it provides a unique overview and perspective of nanobiotechnology impacts from a researcher s entrepreneur s economist s and educator s point of view It provides a resource for current applications and future development of nanobiotechnology

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