



Applications Of Nanotechnology In Veterinary Medicine

Biplab Sarkar, Avinash Sonawane



Applications Of Nanotechnology In Veterinary Medicine:

Application of Nanotechnology in Veterinary Medicine Isayas Asefa, 2022-05-11 Literature Review from the year 2022 in the subject Veterinary medicine course Nanotechnology language English abstract The objective of this seminar paper is to review the application of nanotechnology on smart drug delivery system in animal disease treatment and diagnosis animal breeding and reproduction and also chicken product Nanotechnology is an exciting and rapidly emerging technology allowing us to work at the molecular level often atom by atom to create and manipulate tools materials and functional structures that have nanometer dimensions It has the potential to have great impact on diagnosis and treatment of animals Unique size dependent properties of nanoparticles have numerous diagnostic applications such as diagnostic biosensors imaging nanoprobe for magnetic resonance imaging contrast agents Using nanotechnology multifunctional nanomaterials can be designed to image a specific organ target tissue access deep molecular targets and provide drugs at controlled release Great advances have been and are being made in nanobiochip materials nanoscale biomimetic materials nanomotors nanocomposite materials interface biomaterials and nanobiosensors with enormous prospect in veterinary medicine application It is a research and development aimed at understanding and working with seeing measuring and manipulating at the atomic molecular and supramolecular levels This correlates to length scales of roughly 1 to 100 nanometers At this scale the physical chemical and biological properties of materials differ fundamentally and often unexpectedly integrated sensing monitoring and controlling system could detect the presence of disease and notify the farmer and veterinarian to activate a targeted treatment delivery system This is possible with nanotechnology and could permit a wide range of advances in the field of agriculture animal and veterinary sciences such as conversion of agricultural and food wastes to energy and other useful by products through enzymatic nanobioprocessing development in reproductive sciences breeding managements disease prevention and treatment in animals and public health Applications of nanotechnology and nanoparticles in food animal breeding and animal productivity such as in meat production milk production are emerging rapidly It used to create materials and change structure enhanced quality and texture of foodstuffs at the molecular level This technology has a major impact on production processing transportation storage traceability safety and security of food

Nanotechnology of Veterinary Medicine and Livestock Production PK Gupta, 2025-03-31

Nanotechnology of Veterinary Medicine and Livestock Production compiles the most impactful emerging research on the use of nanotechnology in animal sciences This novel data methods and technologies will improve animal health welfare production and nutrition and will have implications for the future of human health disease control and food safety Authored by a renowned animal toxicologist this book introduces the history of nanotechnology in animal science before delving into its interdisciplinary applications Central chapters explore nanomaterials in animal disease treatment nanovaccine development nanotechnology in animal nutrition and production and applications for antibiotic based therapies Concluding chapters

summarize the risks of these novel technologies their challenges and opportunities in various animal science sectors This is an essential resource for researchers clinicians and animal scientists seeking information on cutting edge nano and biotechnological advancements Summarizes the history and regulatory landscape of nanotechnology pertaining to animal sciences Describes the latest advancements in nanomaterials nanovaccines and nanotechnology for use in animal health production and nutrition Covers challenges and opportunities in this novel research in various animal science sectors as well its potential applications in human health disease control and food safety

Diverse Applications of Nanotechnology in the Biological Sciences Khalid Rehman Hakeem,Majid Kamli,Jamal S. M. Sabir,Hesham F. Alharby,2022-06-30

Diverse Applications of Nanotechnology in the Biological Sciences An Essential Tool in Agri Business and Health Care Systems explores the diverse roles that nanobiotechnology plays in the medical sciences pharmacy healthcare and in plants and agriculture Looking at the diverse applications of nanotechnology in the healthcare field the chapter authors discuss its importance in drug delivery biomedical imaging and medical diagnostics and healthcare management The volume emphasizes how nanomedicine can treat different types of cancers and can improve medical imaging for the diagnosis of different kinds of diseases resulting in quicker and more accurate diagnosis and better treatment options The volume delves into nanobiotechnology in plants and its application in nanofertilizers and nano pesticides in agriculture It also documents how agri nanobiotechnology can be a tool for innovative green technology that can be applied for global food security biodiversity and climate change solutions The themes of nanobiotechnology in medicine and in plants are merged in the chapter on the types and therapeutic effects of plant product based nanomedicine for malignancies The potential toxicity of nanoparticles in plants is also elucidated This volume provides an insightful overview of nanobiotechnology in medicine and in plants and agriculture that will be valuable for researchers and scientists and faculty and students in the areas of nanobiotechnology agriculture plant molecular biology and medicine and healthcare

Nanotechnology Theranostics in Livestock Diseases and Management Minakshi Prasad,Rajesh Kumar,Mayukh Ghosh,Shafiq M. Syed,Soumendu Chakravarti,2024-07-11 This book reviews various applications of nanotechnology in the prophylactic diagnostic and therapeutic management of livestock diseases The initial section discusses the strategies for the synthesis of nanomaterials and characterization of different nanomaterials The subsequent chapters explore the role of nanoparticles in the diagnosis of diseases caused by pathogenic microorganisms including bacteria viruses protozoans and fungi The book also examines the nano sensors that are used for point of care diagnosis of various livestock diseases Additionally it highlights nanoparticles based vaccines and vaccine delivery systems to combat bacterial livestock diseases Lastly the book entails the strategies for developing nanotherapeutics for the treatment of bacterial viral fungal diseases metabolic disorders and cancer in livestock animals The content of this book is useful for researchers and practitioners interested in understanding the applications of nanotechnology in diagnostics and therapeutics of livestock diseases

Integrating Biologically-Inspired

Nanotechnology into Medical Practice Nayak, B.K., Nanda, Anima, Bhat, M. Amin, 2016-09-07 Nanotechnology has grown in its use and adoption across sectors. In particular, the medical field has identified the vast opportunities nanotechnology presents especially for earlier disease detection and diagnosis versus traditional methods. Integrating Biologically Inspired Nanotechnology into Medical Practice presents the latest research on nanobiotechnology and its application as a real world healthcare solution. Emphasizing applications of micro scale technologies in the areas of oncology, food science and pharmacology, this reference publication is an essential resource for medical professionals, researchers, chemists and graduate level students in the medical and pharmaceutical sciences.

Animal Biotechnology Ashish S. Verma, Anchal Singh, 2020-06-09 Animal Biotechnology: Models in Discovery and Translation, Second Edition provides a helpful guide to anyone seeking a thorough review of animal biotechnology and its application to human disease and welfare. This updated edition covers vital fundamentals including animal cell cultures, genome sequencing, analysis, epigenetics and animal models, gene expression and ethics and safety concerns along with in depth examples of implications for human health and prospects for the future. New chapters cover animal biotechnology as applied to various disease types and research areas including in vitro fertilization, human embryonic stem cell research, biosensors, enteric diseases, biopharming, organ transplantation, tuberculosis, neurodegenerative disorders and more.

Advances in Animal Biotechnology Birbal Singh, Gorakh Mal, Sanjeev K. Gautam, Manishi Mukesh, 2019-07-09 This book entitled Advances in Animal Biotechnology is a compilation of state of the art in the field of Animal Biotechnology including fishery that are not sheltered in depth in earlier publications. It offers an update on avant garde technologies and advances in key aspects of genetic engineering, metagenomics, assisted reproduction, animal genomics, biotechnology in veterinary health as well as the role of gut and marine microbial ecosystems in livestock and industrial development. The book is divided broadly into five different sections viz Gut Microbiome and Nutritional Biotechnology, Assisted Reproduction, Biotechnology, Livestock Genomics, Health Biotechnology and Animal Biotechnology in Global Perspective. The book covers the syllabi of Animal Biotechnology courses in various universities, academia and competitive examinations at various levels. Researchers, Continuing Graduates and Academicians, Research Institutions and Biotech Companies will be benefited from this valuable compilation of research. Its broad spectrum makes this work a valuable resource for professionals, researchers, academics and students in the field of veterinary and animal production as well as the biotechnology industry.

Myconanotechnology Mahendra Rai, Patrycja Golinska, 2023-03-10 Myconanotechnology is a highly interdisciplinary science emerging at a fast pace and has garnered the attention of nanotechnologists, mycologists, biomedical experts and agriculture scientists among others. For the last decade there has been tremendous progress in this field owing to its wider and more effective applications. In this book the authors have attempted to discuss different evolving trends in medicine, food, agriculture, veterinary environment and textiles. Globally contributed by eminent authors and experts, the present book contains valuable chapters on the diverse aspects of Myconanotechnology and

thus would be essential reading for academicians This book will cater to the need of postgraduate and research students in fungal biology microbiology chemistry nanotechnology biotechnology and pharmacology *Nanotechnology in Societal Development* Soney C. George, Benjamin Tawiah, 2024-09-17 This book investigates the complex effects of nanotechnology across numerous fields such as nanomedicine tailored therapy in medicine and health care transformational treatment choices for various illnesses electronics and computing via miniaturization In addition the contributions of nanotechnology to quantum computing and flexible electronics has been examined More so the book discusses the advantages of nanotechnology in the energy and environmental sectors such as solar cells energy storage systems and water purification technologies in order to solve major global concerns The impact of nanotechnology on materials and production processes with applications in construction aerospace and other fields is highlighted The book further discusses the ethical and societal issues such as safety privacy equal access and thoroughly examined how to strike a balance between innovation and responsible development of nanotechnology in the context of stringent rules and proactive risk assessment Furthermore the ability of nanotechnology to bridge the technological divide in underdeveloped nations while minimizing environmental implications is also highlighted

Nanobiotechnology for the Livestock Industry Ravindra Pratap Singh, Charles Oluwaseun Adetunji, Ram Lakhan Singh, Jay Singh, Pratima R. Solanki, Kshitij RB Singh, 2023-01-11 Nanobiotechnology for the Livestock Industry Animal Health and Nutrition delivers a multidisciplinary reference of nanobiotechnology applications in various sectors including farming practices healthcare and breeding practices market and economic analysis benefits biosafety regulation and more The book explores nanobiotechnology s role in livestock handling including hygiene maintenance and feed nutrient delivery The book also examines nanobiotechnology s role in maintaining nutrient quality in food products and covers healthcare practices utilizing nanobiotechnology such as maintaining and monitoring livestock health diagnosis and treatment of disease monitoring drug delivery optimizing breeding patterns and cryopreservation of sperm and eggs Discusses livestock diseases and major handling mistakes in livestock treatment and potential solutions Provides detailed explanations of food safety technologies and food regulation policies Presents a detailed analysis of market growth and trends related to the livestock industry Includes biosafety and bioregulation of the nanobiotechnological tools used to produce transgenic animals

Biofilm Associated Livestock Diseases and their Management Dibyajit Lahiri, Moupriya Nag, Debasmita Bhattacharya, Rina Rani Ray, 2025-04-08 The book discusses biofilms and adherent communities of microorganisms that play a significant role in livestock associated infections It explores the characteristics formation and consequences of biofilms in various livestock species and explains their involvement in diseases like mastitis Johne s disease caseous lymphadenitis and more It also explains intricate aspects of biofilm related challenges such as virulence antibiotic resistance quorum sensing and inter species communication The book then explores the strategies for combatting biofilm associated infections encompassing phytomedicines novel antimicrobials and nanomedicines This book

serves as a great resource for researchers veterinary practitioners and students by addressing these critical issues and providing a comprehensive understanding of biofilm dynamics in livestock infections fostering improved diagnosis and treatment methodologies *Biological Applications of Nanoparticles* Biplab Sarkar,Avinash Sonawane,2023-12-12 This textbook for graduate and postgraduate students provides comprehensive applications of nanoparticles in medicine agriculture and environmental sciences The initial chapter covers basic topics related to types synthesis structure and properties of various nanoparticles It further discusses the wide range of applications of nanoparticles in medicine agriculture and the environment The book presents nano electronic biosensors that are used to diagnose and monitor the progression of human diseases It summarizes the opportunities and challenges of nanotechnology in the agriculture and food sector highlighting the scientific technical regulatory safety and societal impacts Additionally it illustrates the applications of nanotechnology in the field of aquaculture medicine bioinformatics and food technology The textbook examines the development and administration of nano medicines their applications advantages and limitations for the treatment and prophylaxis of a broad range of diseases Lastly the textbook explores the recent advances in the field of nanobusiness and nanotechnology issues in intellectual property management IPR

Myconanotechnology and Application of Nanoparticles in Biology Mohammed Kuddus,Iffat Zareen Ahmad,Chaudhery Mustansar Hussain,2023-07-22

Myconanotechnology and Application of Nanoparticles in Biology Fundamental Concepts Mechanism and Industrial Applications focuses on the emergence of myconanotechnology as a new science for the synthesis of nanoparticles using fungi and considering future applications and challenges The book demonstrates why mycology should be regarded as a megascience A subject requiring international collaboration to overcome barriers that need to be confronted in the interests of global security and human well being This reference provides a good source of knowledge and guidelines for advanced graduate students and will be of significant interest to scientists working on the basic issues surrounding applications of myconanotechnology Highlights established specific applications of myconanotechnology in various industrial sectors and discusses future research directions Provides academic and industry a high tech start up that will revolutionize modern industrial practices Offers a comprehensive coverage on myconanotechnology including real time case studies Focuses on the emergence of myconanotechnology as a new science for the synthesis of nanoparticles by using fungi Carries out an in depth and step by step description of knowledge on myco nanotechnology current research trends opportunities and their involvement in modern society

Fungal Nanobionics: Principles and Applications Ram Prasad,Vivek Kumar,Manoj Kumar,Shanquan Wang,2018-07-27 Fungal nanobionics has great prospects for developing new products with industrial agriculture medicine and consumer applications in a wide range of sectors The fields of chemical engineering agri food biochemical pharmaceuticals diagnostics and medical device development all employ fungal products with fungal nanomaterials currently used in a wide range of applications ranging from drug development to food industry and

agricultural sector The fungal agents emerge as an environmentally friendly clean non toxic agent for the biogenic metal nanoparticles and employs both intracellular and extracellular methods The simplicity of scaling up and downstream processing and the presence of fungal mycelia affording an increased surface area provide key advantages In addition the larger spectrum of synthesized nanoparticle morphologies and the substantially faster biosynthesis rate in cell free filtrate due to the higher amount of proteins secreted in fungi make this a particularly enticing route Understanding the diversity of fungi in assorted ecosystems as well as their interactions with other microorganisms animals and plants is essential to underpin real and innovative technological developments and the applications of metal nanoparticles in many disciplines including agriculture catalysis and biomedical biosensors Importantly biogenic fungal nanoparticles show significant synergistic characteristics when combined with antibiotics and fungicides to offer substantially greater resistance to microbial growth and applications in nanomedicine ranging from topical ointments and bandages for wound healing to coated stents

Silver Nanomaterials for Agri-Food Applications Kamel A. Abd-Elsalam, 2021-08-14 Silver Nanomaterials for Agri Food Applications explores how silver based nanomaterials are being used to create more efficient systems and products across the agri food sector In particular the book covers silver nanomaterials as antimicrobial agents in food science for plant protection and for water purification Sections highlight the effect of silver nanoantimicrobials and drug synergism on drug resistant pathogens offer an overview of silver nanomaterials based nanosensors in agri food applications explore the use of silver nanostructures in plant science applications cover plant protection applications describe silver nanomaterial applications in the removal of dyes and pesticides from wastewater and more Explores the applications of silver based nanomaterials for plant protection water treatments and in food science Outlines why silver based nanomaterials have properties that make them beneficial for protection against infectious diseases Assesses the challenge of integrating silver based nanomaterials into agricultural systems

Intelligent Nanomaterials Ashutosh Tiwari, Yogendra Kumar Mishra, Hisatoshi Kobayashi, Anthony P. F. Turner, 2016-10-11 Overall this book presents a detailed and comprehensive overview of the state of the art development of different nanoscale intelligent materials for advanced applications Apart from fundamental aspects of fabrication and characterization of nanomaterials it also covers key advanced principles involved in utilization of functionalities of these nanomaterials in appropriate forms It is very important to develop and understand the cutting edge principles of how to utilize nanoscale intelligent features in the desired fashion These unique nanoscopic properties can either be accessed when the nanomaterials are prepared in the appropriate form e g composites or in integrated nanodevice form for direct use as electronic sensing devices In both cases the nanostructure has to be appropriately prepared carefully handled and properly integrated into the desired application in order to efficiently access its intelligent features These aspects are reviewed in detail in three themed sections with relevant chapters Nanomaterials Fabrication and Biomedical Applications Nanomaterials for Energy Electronics and Biosensing Smart Nanocomposites

Fabrication and Applications The Nanotechnology Revolution Dale A. Stirling, 2018-01-17 Nanotechnology is changing the world in a very big way but at the atomic and sub atomic level Although the roots of nanotechnology can be traced back to more than a century ago the last three decades have witnessed an explosion of nano based technologies and products This reference work examines the history current status and future directions of nanotechnology through an exhaustive search of the technical and scientific literature The more than 4000 bibliographic citations it includes are carefully organized into core subject areas and a geographic and subject index allows readers to quickly locate documents of interest Although a sense of the global reach and interest in nanotechnology can be gleaned from the reference sections of countless journal articles conference papers and books this is the only reference work providing an in depth global perspective that is ready made for nanotechnology professionals and those interested in learning more about all things nanotechnology Despite the abundance of online resources there is still an urgent need for well researched well presented concise and thematically organized reference works Instead of relying on wiki pages citation aggregators and related websites the author searched the databases and databanks of scholarly literature search providers such as EBSCO ProQuest PUBMED STN International and Thomson Reuters In addition he used select serials related databases to account for pertinent documents from countries in which English is not the primary national language i e China Online Journals e periodica J STAGE and SciELO Brazil among others

Fundamentals and Biomedical Applications of Chitosan Nanoparticles Kalim Deshmukh, Jagan Mohan Dodda, Ibrahim M. El-Sherbiny, Emmanuel Rotimi Sadiku, 2024-11-27 Fundamentals and Biomedical Applications of Chitosan Nanoparticles holistically covers the development and application of chitosan nanoparticles providing an accessible and interdisciplinary resource for both those new to the field and those who wish to deepen their knowledge The book begins with an introduction to synthesis methods fundamental chemistry characterization and surface functionalization of chitosan nanoparticles guiding the reader through each stage of development A wide range of biomedical applications are explored from vaccine delivery tumor targeting tissue engineering and wound healing and antimicrobial therapy This will be a helpful guide for postgraduate students and researchers who are starting out in this field as well as established researchers in the fields of materials science nanotechnology materials chemistry and bioscience Details the regulatory toxicological and clinical considerations of chitosan nanoparticles for biomedical applications Describes the various methods of synthesis surface functionalization crosslinking and grafting of chitosan nanoparticles Reviews a broad range of biomedical applications of chitosan nanoparticles that will appeal to an interdisciplinary readership Nanotoxicity Susai

Rajendran, Anita Mukherjee, Chandraiah Godugu, Ritesh K. Shukla, Tuan Anh Nguyen, 2020-04-09 Nanotoxicity Prevention and Antibacterial Applications of Nanomaterials focuses on the fundamental concepts for cytotoxicity and genotoxicity of nanomaterials It sheds more light on the underlying phenomena and fundamental mechanisms through which nanomaterials interact with organisms and physiological media The book provides good guidance for toxic prevention methods and

management in the manufacture application disposal The book also discusses the potential applications of nanomaterials based antibiotics The potential toxic effects of nanomaterials result not only from the type of base materials but also from their size ligands surface chemical modifications This book discusses why different classes of nanomaterials display toxic properties and what can be done to mitigate this toxicity It also explores how nanomaterials are being used as antimicrobial agents being used to purify air and water and counteract a range of infectious diseases This is an important reference for materials scientists environmental scientists and biomedical scientists who are seeking to gain a greater understanding of how nanomaterials can be used to combat toxic agents and how the toxicity of nanomaterials themselves can best be mitigated Explains the underlying phenomena and fundamental mechanisms through which nanomaterials interact with organisms and physiological media Outlines major methods for mitigating and prevention of nanotoxicity Discusses the applications of nanomaterials based antibiotics *Handbook of Green and Sustainable Nanotechnology* Uma

Shanker, Chaudhery Mustansar Hussain, Manviri Rani, 2023-04-25 The Handbook of Green and Sustainable Nanotechnology presents sustainable and green technologies for the development of products and processes which are environmental friendly economically sustainable safe energy efficient decrease waste and diminish greenhouse gas emissions It provides the overall spectrum of fundamentals development and applications of sustainable and green technologies Topics such as legal health and safety issues are discussed as well The book elucidates paths to real time utilization of green and sustainable nanotechnology at commercial scale

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