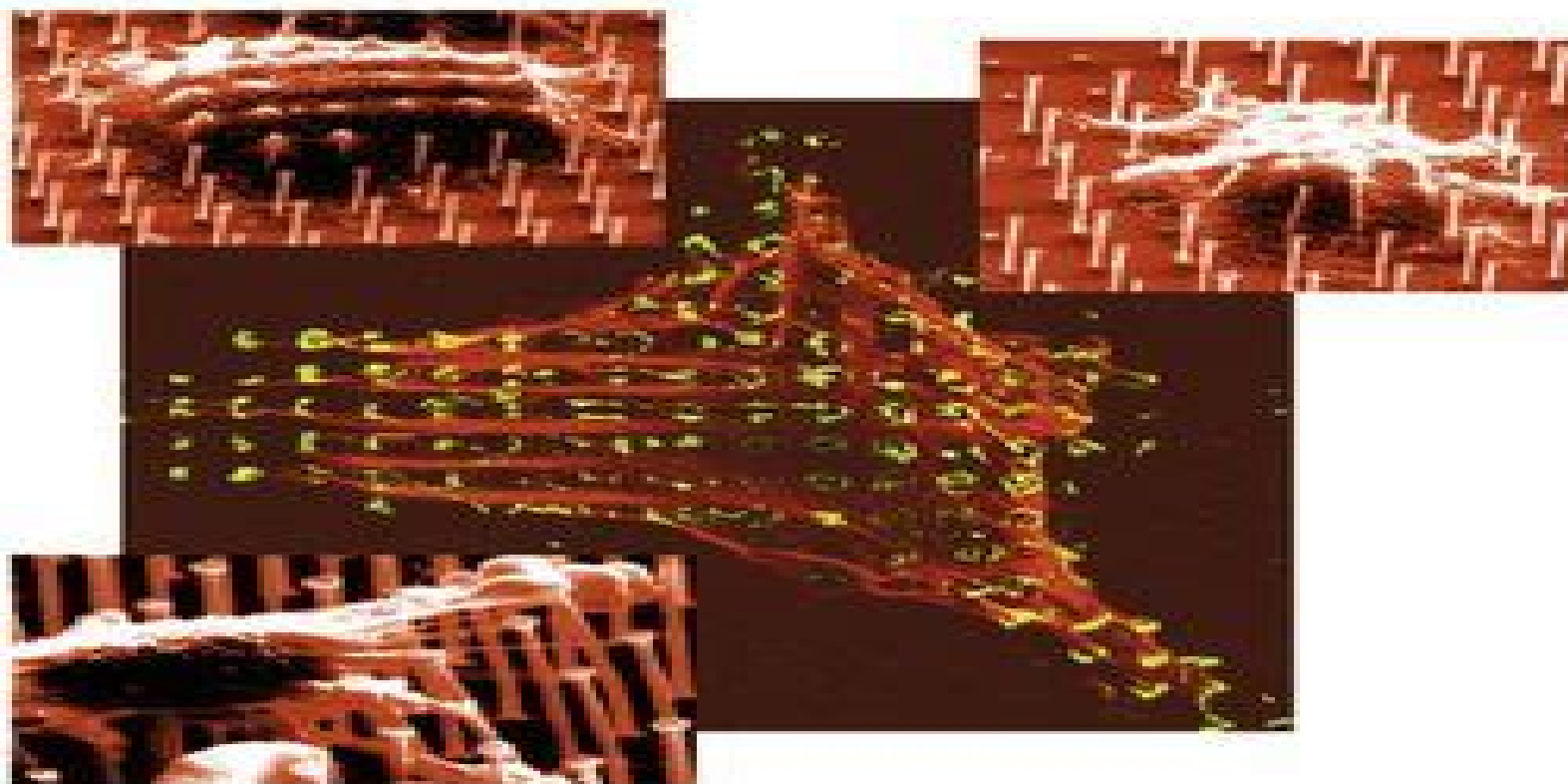


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# Nanobiotechnology

Concepts, Applications and Perspectives



# Nanobiotechnology Concepts Applications And Perspectives

**Devarajan Thangadurai, Saher  
Islam, Charles Oluwaseun Adetunji**



## **Nanobiotechnology Concepts Applications And Perspectives:**

Nanobiotechnology Christof M. Niemeyer, Chad A. Mirkin, 2006-03-06 Nanotechnology is the key technology of the 21st century The possibility to exploit the structures and processes of biomolecules for novel functional materials biosensors bioelectronics and medical applications has created the rapidly growing field of nanobiotechnology Designed as a broad survey of the field this book combines contributions from bioorganic and bioinorganic chemistry molecular biology materials science and bioanalytics to fathom the full scope of current and future developments It is divided into four main sections Interphase Systems Protein based Nanostructures DNA based Nanostructures Nanoanalytics Each chapter describes in detail currently available methods and contains numerous references to the primary literature making this the perfect field guide for chemists biologists and materials scientists who want to explore the fascinating world of nanobiotechnology

**Nanobiotechnology II** Chad A. Mirkin, Christof M. Niemeyer, 2007-02-19 This second volume on a burgeoning field retains the proven concept of the spectacularly successful first one extending and supplementing it Individual sections are each dedicated to nanoparticles nanostructures and patterns nanodevices and machines and nanoanalytics Essential reading for an entire generation of scientists this authoritative survey defines one of the most important new scientific fields to have emerged for many decades

**Nanobiotechnology: Concepts, applications, and perspectives** Christof M. Niemeyer, Chad A. Mirkin, 2004 This useful field guide for chemists biologists and materials scientists is a broad survey of the field which combines contributions from bioorganic and bio inorganic chemistry molecular biology materials science and bioanalytics to fathom the full scope of future developments

Nanobiotechnology in Food: Concepts, Applications and Perspectives Hoda Jafarizadeh-Malmiri, Zahra Sayyar, Navideh Anarjan, Aydin Berenjian, 2019-01-31 This text focuses on the many benefits of the use of nanobiotechnology in the food industry Each aspect of nanobiotechnology use is covered in depth from food processing to packaging to safety and quality control The authors outline the definition and history of nanobiotechnology and cover novel technologies for its use in the food industry including the advantages and challenges for food scientists Individual chapters focus on the food industry s use of nano additives nano sensors nano encapsulation for nutrition delivery and considerations for commercialization The potential hazards for nanoparticle use as well as the future prospects of nanobiotechnology use in the food industry are presented here in depth Nanobiotechnology in Food Concepts Applications and Perspectives explores the emerging developments in nanotechnology which make it increasingly applicable to the food industry Nanoparticles are applied during food processing to improve nutritional quality flow properties flavor color and stability and also to increase shelf life by decreasing the activity of microorganisms Nanotechnology is important for the development of healthier foods with lower fat sugar and salt levels and to overcome many food related diseases This book shows how producers and manufacturers can make great strides in food quality and safety by using nanotechnology

**NanoBioTechnology** Oded Shoseyov, Ilan Levy, 2008-02-07 NanoBiotechnology is a groundbreaking text investigating

the recent advances and future direction of nanobiotechnology It will assist scientists and students in learning the fundamentals and cutting edge nature of this new and emerging science Focusing on materials and building blocks for nanotechnology leading scientists from around the world share their knowledge and expertise in this authoritative volume

Intelligent Materials Mohsen Shahinpoor, Hans-Jörg Schneider, 2008 From the nanoscale to the macroscopic scale intelligent materials are triggering a response across both dimensions and scientific disciplines World class leading experts in the fields of chemistry physics and engineering have contributed to Intelligent Materials highlighting the importance of smart material science in the 21st century In this exceptional text the expertise of specialists across the globe is drawn upon to present a truly interdisciplinary outline of the topic Covering both a bottom up chemical and top down engineering approach to the design of intelligent materials the Editors of the book are bridging a vital gap between various scientific authorities The influence of current research in this field on future technology is undisputed and potential applications of intelligent materials span nanoscience nano technology medicine engineering biotechnology pharmaceutical and many other industries This is an authoritative introduction to the most recent developments in the area which will provide the reader with a better understanding of the almost unlimited opportunities in the progress and design of new intelligent materials An indispensable reference for anyone contemplating working in the field The Editors Mohsen Shahinpoor is the Chief Scientist and Director of Biomedical Products at Environmental Robots Inc and a Regents Professor at the University of New Mexico His work in the field of Robotic Systems and Smart Intelligent Materials covers over some 22 years and includes numerous publications and patents Prof Dr Hans Joerg Schneider is Professor em of organic chemistry at the Universitaet des Saarlandes Germany He has played a pivotal role in transferring the principals of molecular recognition into supramolecular polymers and has published a multitude of books and papers in the field with several patents pending for intelligent chemomechanical materials Comments on this book This will be the starting point for all researchers looking for industrial solutions involving smart materials Congratulations to the Editors for providing such a vast and interdisciplinary book P G de Gennes France Prix Nobel de Physic 1991 *Nanotechnology: Concepts, Methodologies, Tools, and Applications*

Management Association, Information Resources, 2014-02-28 Over the past few decades devices and technologies have been significantly miniaturized from one generation to the next providing far more potential in a much smaller package The smallest of these recently developed tools are miniscule enough to be invisible to the naked eye Nanotechnology Concepts Methodologies Tools and Applications describes some of the latest advances in microscopic technologies in fields as diverse as biochemistry materials science medicine and electronics Through its investigation of theories applications and new developments in the nanotechnology field this impressive reference source will serve as a valuable tool for researchers engineers academics and students alike **Cyanobacterial Lifestyle and its Applications in Biotechnology** Prashant

Kumar Singh, Maria F. Fillat, Ajay Kumar, 2021-09-30 Environmental change is affecting the world's agricultural productivity

This is coupled with an increase in population according to the United Nations Department for Economic and Social Affairs the global population is estimated to reach 9.7 billion by 2050. Therefore the current situation requires that we develop climate smart technologies to improve crop productivity to sustain the ever rising global population. Current day farmers are introducing a considerable amount of agrochemicals to enhance crop productivity. Indiscriminate agrochemical application has altered not only the soil's physicochemical and biological properties but also affected human health through food chain contamination. Cyanobacteria under these changing environmental conditions may help to resolve the problem significantly without changing the natural soil properties. In spite of their well known stress tolerance potential most of the cyanobacterial stress management and signaling pathways are yet to be fully characterized. Therefore there is an urgent need to explore cyanobacterial metabolism under stress as well as their regulatory pathways to exploit them for sustainable agriculture. In recent decades the application of cyanobacteria has attracted scientists because of uniqueness, better adaptability and synthetic products. Diverse cyanobacterial communities with the ability to fix atmospheric nitrogen together with their photosynthetic properties have demonstrated their application under field conditions. Several cyanobacterial species have thus been exploited to enhance soil fertility, mitigate biotic and abiotic stress and contamination management. Cyanobacterial Lifestyle and its Applications in Biotechnology has been designed to discuss different aspects of cyanobacterial physiology with the aim of helping to provide a better understanding of advanced cyanobacterial molecular biology and their metabolism to uncover the potential of cyanobacteria in the tailoring of stress smart crops for sustainable agriculture. Chapters include valuable information about the role of cyanobacteria in the evolution of life, cyanobacterial photosynthesis, stress tolerant cyanobacterium, biological nitrogen fixation, circadian rhythms, genetics and molecular biology of abiotic stress responses. Summarizes various aspects of cyanobacterial research. Includes comprehensive coverage of molecular approaches for the identification of cyanobacteria and their evolution. Identifies an expanding horizon of cyanobacterial lifestyle, stress management in cyanobacteria. Examines cyanobacteria, synthetic biology, genetic engineering, photosynthesis and metabolic engineering.

**Petroleum Nanobiotechnology** Nour Shafik El-Gendy, Hussein Nabil Nassar, James G. Speight, 2022-03-23

This book *Petroleum Nanobiotechnology: Modern Applications for a Sustainable Future* explores the unique fusion of biotechnology and nanotechnology as applied to the different sectors of the oil and gas industry. It is a concise resource on the most recent and most up to date bottom up fabrication techniques in petroleum nanobiotechnology covering the advantages of biofabrication over chemical or physical techniques from the point of being more cost effective, ecofriendly, biocompatible, superior and highly stable. The volume covers the important topic of microbial and phytosynthesis of metal and metal oxide nanoparticles. The key applications discussed here include the application of these nanoparticles in different sectors of the oil and gas industry with special emphasis on antimicrobial applications, reduction of environmental pollutants and bio upgrading of petroleum and its fractions. The discussion of each application is augmented with a critical review of the

potential for continued development The book first provides an overview of petroleum microbiology and nanotechnology and proceeds to consider phytosynthesis of metal nanoparticles microbial synthesis of metal nanoparticles biosynthesis of metal oxide nanoparticles nanobiotechnology and mitigation of microbial influenced corrosion in petroleum industry applications of nanobiotechnology in petroleum refining and how nanobiotechnology can be used for petroleum wastewater treatment This book covers the very important principle of nanobiotechnology as applied in the petroleum industry and how it can be used for Oil recovery Microbial enhanced oil recovery Petroleum refinery such as for example desulfurization denitrogenation demetallization biotransformation and bio upgrading Bioremediation of oil polluted soil and water Mitigation of microbial corrosion and bio fouling Toxicity of nano materials and its obstacles upon application Nanobiotechnology in petroleum industry and the 17 goals of sustainable development The advantages of the application of nanobiotechnology in the oil industries are enormous and clearly outweigh any negligible cons The success can have a huge impact on the exploration production refining mitigation of corrosion waste management and economics This informative volume will be valuable for petroleum engineers and petroleum microbiologists scientists and researchers concerned with nanotechnology environmental pollution petroleum biotechnology petroleum microbiology petroleum refining and the petroleum industry in general

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

**Microbial Nanobiotechnology** Agbaje Lateef, Evariste Bosco Gueguim-Kana, Nandita Dasgupta, Shivendu Ranjan, 2021-02-17 This edited book serves as a vital resource on the contributions of microorganisms to advances in nanotechnology establishing their applications in diverse areas of biomedicine environment biocatalysis food and nutrition

and renewable energy It documents the impacts of microorganisms in nanotechnology leading to further developments in microbial nanobiotechnology This book appeals to researchers and scholars of microbiology biochemistry and nanotechnology

**Handbook of Industrial Chemistry and Biotechnology** James A. Kent, 2013-01-13 Substantially revising and updating the classic reference in the field this handbook offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on the chemistry engineering economics and infrastructure of the industry The Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities It provides not only the underlying science and technology for important industry sectors but also broad coverage of critical supporting topics Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in chapters on Green Engineering and Chemistry specifically biomass conversion Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety chemistry plant security and Emergency Preparedness Understanding these factors allows them to be part of the total process and helps achieve optimum results in for example process development review and modification Important topics in the energy field namely nuclear coal natural gas and petroleum are covered in individual chapters Other new chapters include energy conversion energy storage emerging nanoscience and technology Updated sections include more material on biomass conversion as well as three chapters covering biotechnology topics namely Industrial Biotechnology Industrial Enzymes and Industrial Production of Therapeutic Proteins

**Advanced Materials Interfaces** Ashutosh Tiwari, Hirak K. Patra, Xuemei Wang, 2016-07-15 Advanced Material Interfaces is a state of the art look at innovative methodologies and strategies adopted for interfaces and their applications The 13 chapters are written by eminent researchers not only elaborate complex interfaces fashioned of solids liquids and gases but also ensures cross disciplinary mixture and blends of physics chemistry materials science engineering and life sciences Advanced interfaces operate fundamental roles in essentially all integrated devices It is therefore of the utmost urgency to focus on how newly discovered fundamental constituents and interfacial progressions can be materialized and used for precise purposes Interfaces are associated in wide multiplicity of application spectrum from chemical catalysis to drug functions and the advancement is funnelled by fine tuning of our fundamental understanding of the interface effects

**Biotechnology** David P. Clark, Nanette J. Pazdernik, 2010-07-21 Unlike most biotechnology textbooks Dr David P Clark s Biotechnology approaches modern biotechnology from a molecular basis which grew out of the increasing biochemical understanding of physiology Using straightforward less technical jargon Clark manages to introduce each chapter with a basic concept that ultimately evolves into a more specific detailed principle This up to date text covers a wide realm of topics including forensics and bioethics using colorful illustrations and concise applications This book will help readers understand molecular biotechnology as a scientific discipline how the research in this area is conducted and how this technology may impact the future Up to date text

focuses on modern biotechnology with a molecular foundation Basic concepts followed by more detailed specific applications Clear color illustrations of key topics and concepts Clearly written without overly technical jargon or complicated examples

*Functional Supramolecular Architectures* Paolo Samorì, Franco Cacialli, 2014-06-13 A comprehensive overview of functional nanosystems based on organic and polymeric materials and their impact on current and future research and technology in the highly interdisciplinary field of materials science As such this handbook covers synthesis and fabrication methods as well as properties and characterization of supramolecular architectures Much of the contents are devoted to existing and emerging applications such as organic solar cells transistors diodes nanowires and molecular switches The result is an indispensable resource for materials scientists organic chemists molecular physicists and electrochemists looking for a reliable reference on this hot topic

BioMEMS Gerald Urban, 2007-02-01 Explosive growth in the field of microsystem technology MST has introduced a variety of promising products in major disciplines from microelectronics to life sciences Especially the life sciences and health care business was and is expected to be a major market for MST products Undoubtedly the merging of biological sciences with micro and nanoscience will create a scientific and technological revolution in future Microminiaturization of devices down to the nanoscale approaching the size of biological structures will be a prerequisite for the future success of life sciences Bioanalytical and therapeutic micro and nanosystems will be mandatory for system biologists in the long run to obtain insight into morphology the function and the interactive processes of the living system With such a deeper understanding new and personalized drugs could be developed leading to a revolution in life sciences Today microanalytical devices are used in clinical analytics or molecular biology as gene chips In parallel standard microbiomedical products are employed in the intensive care and surgical theatre mainly for monitoring and implantation purposes The gap between these two different scientific fields will be closed however as soon as functional micro devices can be produced allowing a deeper view into the function of cells and whole organisms Here a new discipline evolved which focuses on microsystems for living systems called BIOMEMS In this review at a glance the exciting field of bio microsystems from their beginnings to indicators of future successes are presented It will also show that a broad penetration of micro and nano technologies into biology and medicine will be mandatory for future scientific and new product development progress in life science

*Green Nanoparticles: The Future of Nanobiotechnology* Shilpi Srivastava, Atul Bhargava, 2021-12-02 This book discusses the fundamental concepts of the green synthesis of nanoparticles and presents the latest advances in this emerging field Providing a comprehensive overview of developments related to nanoparticle synthesis using fungi algae bryophytes pteridophytes gymnosperms monocotyledons dicotyledonous angiosperms and animal systems it also explores techniques for the characterization of these nanoparticles Lastly it reviews the applications and toxicity of biologically synthesized green nanoparticles Given its scope it is a valuable resource for students researchers and policymakers working in the field of nanobiotechnology and nanoscience

*Chemical Sensors and Biosensors*

Florinel-Gabriel Banica, 2012-08-15 Key features include Self assessment questions and exercises Chapters start with essential principles then go on to address more advanced topics More than 1300 references to direct the reader to key literature and further reading Highly illustrated with 450 figures including chemical structures and reactions functioning principles constructive details and response characteristics Chemical sensors are self contained analytical devices that provide real time information on chemical composition A chemical sensor integrates two distinct functions recognition and transduction Such devices are widely used for a variety of applications including clinical analysis environment monitoring and monitoring of industrial processes This text provides an up to date survey of chemical sensor science and technology with a good balance between classical aspects and contemporary trends Topics covered include Structure and properties of recognition materials and reagents including synthetic biological and biomimetic materials microorganisms and whole cells Physicochemical basis of various transduction methods electrical thermal electrochemical optical mechanical and acoustic wave based Auxiliary materials used e g synthetic and natural polymers inorganic materials semiconductors carbon and metallic materials properties and applications of advanced materials particularly nanomaterials in the production of chemical sensors and biosensors Advanced manufacturing methods Sensors obtained by combining particular transduction and recognition methods Mathematical modeling of chemical sensor processes Suitable as a textbook for graduate and final year undergraduate students and also for researchers in chemistry biology physics physiology pharmacology and electronic engineering this book is valuable to anyone interested in the field of chemical sensors and biosensors

**Viral and Antiviral Nanomaterials** Devarajan Thangadurai, Saher Islam, Charles Oluwaseun Adetunji, 2022-01-18 This book summarizes the synthesis properties characterization and application of viral and antiviral nanomaterials by using interdisciplinary subjects ranging from materials science to biomedical science Viral and Antiviral Nanomaterials Synthesis Properties Characterization and Application highlights attainments in utilizing nanomaterials as powerful tools for the treatment of viral infections in plants animals and humans It reviews the adopted strategies for designing viral and antiviral nanomaterials for medical applications including cancer therapy and drug delivery It also explains the different kinds of antiviral nanosized structures their chemistries and the attributes that enable them to be suitable targets for nanotherapeutics The contributors have prepared the content in a comprehensive manner for readers to use their research findings to improve the healthcare of all living beings FEATURES Reviews the novel tools for synthesis and characterization of nanomaterials as viral and antiviral agents Explores the different applications of currently available nanomaterials for the treatment of viral infections Investigates the role of antiviral nanodrugs in human and plant systems Addresses the activity of nanostructures in drug delivery systems for cancer treatment Allows readers from various backgrounds to access the advanced research and practices across traditional frontiers Discusses viral nanomaterials as the viable future of antiviral drugs and nanovaccines in animals and humans This authoritative book is of exceptional relevance to postgraduate scholars researchers and scientists

interested in nanomedicine biomedical science materials science biopharmaceutical technology microbiology and virology to improve virus and cancer based therapeutic tools for animal and human welfare      **Methods in Bioengineering** Kaushal Rege,Igor L. Medintz,2009 This practical book is part of the new Artech House Methods in Bioengineering series volumes designed to offer detailed guidance on authoritative methods for addressing specific bioengineering challenges This volume is focused on the materials involved with nanoscale bioengineering Nanomaterials are quickly moving into the mainstream as a critical component of biological research Filling a critical gap in the current literature this new resource presents practical step by step methods to help professionals synthesize characterize functionalize and apply the nanomaterial that is most suitable for handling a given nanoscale bioengineering problem Written and presented by the best scientists and engineers in their respective fields the authors offer a clear and detailed understanding of how to carry out a wide range of important methods in this area

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