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**Nanotheranostics** - Mahendra Rai - 2019-11-22

This book is specifically designed to provide information about various nanocarriers currently developed under the emerging field of nanotheranostics for a sustained, controlled, and targeted co-delivery of diagnostic and therapeutic agents. Diverse theranostic applications of nanotechnology and their limitations are also addressed. It integrates nanobiotechnology with theranostic applications. The combined term nanotheranostics has diverse application particularly in chemotherapy and other infectious diseases. Among other topics addressed are antimicrobial resistance, targeting intra-cellular pathogens, viruses and bacteria, chemotherapy, cancer therapeutics, and inflammatory disorders. This interdisciplinary volume is essential for a diverse group of readers including nanotechnologists, microbiologists, biotechnologists, bioengineering and bioprocess industry.

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This book discusses recent developments in renewable and sustainable materials from a green technology perspective and how these materials interact with the environment. It highlights the fundamental processes involved in the production of renewable and sustainable materials, including chemical and biological approaches as well as these materials' potential application as green technological option. Written in a didactic style, it offers a guide and insights into renewable and sustainable materials. Each chapter provides in-depth technical information on the material's theory and its applications. The book shows how new materials may help us solve human and environmental issues in the future and suggests where current research may lead.


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**Fluorescent Materials for Cell Imaging** - Fu-Gen Wu - 2020-10-26

This book focuses on the latest fluorescent materials for cell imaging. Cell imaging is a widely used basic technique that helps scientists gain a better understanding of biological functions through studies of cellular structure and dynamics. In the past decades, the development of a variety of new fluorescent materials has significantly extended the applications of cellular imaging techniques. This book presents recently developed fluorescent materials, including semiconductor quantum dots, carbon dots, silicon nanoparticles, metal nanoclusters, upconversion nanoparticles, conjugated polymers/polymer dots, aggregation-induced emission (AIE) probes, and coordination compounds, used for various cellular imaging purposes. It will appeal to cell biologists and other researchers in academia, industry and clinical settings who are interested in the technical development and advanced applications of fluorescence imaging in cells, tissues and organs to explore the mechanisms of biological functions and diseases.

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**Cardiovascular Fluid Dynamics** - D.H. Bergel - 2012-12-02

Cardiovascular Fluid Dynamics, Volume 1 explores some problems and concepts of mammalian cardiovascular function, with emphasis on experimental studies and methods. It considers pressure measurement in experimental physiology, including the measurements of pulsatile flow, flow velocity, lengths, and dimensions; the use of control theory and systems analysis in cardiovascular dynamics; the application of computer models in cardiovascular research; the meaning and measurement of myocardial contractility; and the consequences of the steady-state analysis of arterial function. Organized into 10 chapters, this volume begins with an overview of the mammalian cardiovascular system and the essential features of cardiovascular function. It then discusses the practical problems associated with the use of pressure transducers in physiological and cardiac laboratories, the challenges involved in pulsatile flow measurement using flowmeters and thermal devices, and the mechanical

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The mechanical properties of whole bones, bone tissue, and the bone-implant interfaces are as important as their
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Plant Tissue Culture and Transformation Techniques - Balam Sharma - 2008
This publication deals with various aspects of the genetic engineering-plant tissue culture and transformation
 techniques. Due to their biological, ecological and geographic diversity, the demand for various horticultural
crops is likely to increase manifold in the future and in order to meet such demand, there is an urgent need to
concentrate on the research aspects for improvement of these crops. Plant tissues culture offers new tools to
accomplish this objective. Plant tissue culture is an important area of biotechnology, which is used for the
propagation of problem-species, rapid propagation of high value genotypes, production of secondary metabolites
e etc. Tissue culture is an important step in developing new hybrids from distant parents and transgenics and
particularly cost-effective technology with palpable impact in vegetatively propagated plants, which is clearly
visible in improved yields of cultivars incorporating genes from unexplored sources and improved germplasm.
Plant tissue culture is the most rapid and efficacious way to speed up production of large volumes of identical plants
for specific markets. Micropropagation is the quickest way for popularization of new varieties of horticultural crops
where other methods of mass multiplication of genetically pure and homogeneous planting materials are very
slow. With the advent of transformation technology, it has become a useful tool to mass produce new plants with
 genetic material transferred from unrelated sources with the help of tissue culture. The volume contains
contributions by several authors highlighting the status of genetic engineering and plant tissue culture research
and development programmes in various developing countries and case studies on a few economically important
crops. The publication will be of immense value to the working scientists, institutions, policy makers and all those
countries. This book provides a good picture of efforts being made and success already achieved in the Third
World countries at various levels of development striving to secure gains from the latest advances in science and
technology. Contents Chapter 1: China-Cotton Genetic Engineering and Tissue Culture Developments by Reddy
Naganagouda and Zhu Shujin; Chapter 2: Egypt: Development of Transgenic Wheat with Improved Salt and
Drought Tolerance by Ahmed Bahabdin & Hala F Eissa; Chapter 3: Egypt-Use of Genetic Engineering Approach to
Develop Virus Resistance for Some Plants Belonging to Different Plant Families by Atef Shoukry Sadik; Chapter 4:
Egypt-Genetic Transformation of Maize (Zea mays L) by Shireen Asssem; Chapter 5: Egypt-Tissue Culture and
Transformation of Potato by Taymour Nasr El Din; Chapter 6: Eritrea-Genetic Engineering by Tadesse Mehari;
Chapter 7: India-Preseent Status, Policy and Constraints in Genetic Engineering by Jeetendra Jaising Solanki;
Chapter 8: Indonesia-Review on the Role of Biotechnology for Food Security by Lukit Dey; Chapter 9: Iran-Status
of Agricultural Biotechnology by M Kafi; Chapter 10: Kenya-Status of Biotechnology Research and Development
by C N Nguman, M G Karembu and D Otunge; Chapter 11: Kenya-Preseent Status, Policies and Constraints in
Aareas Related to Plant Biotechnology by Salome Mallowa Obura; Chapter 12: Malaysia - A Brief Report on
Biotechnology and Genetic Engineering by Z A Aziz; Chapter 13: Pakistan-Preseent Status, Policies and Constraints
of Biotechnology by Saghir Ahmed Sheikh; Chapter 14: Sri Lanka-Preseent Status of Biotechnology by P Arun
Weerasinghe; Chapter 15: Syria-Current Status and Future Prospective of Agricultural Biotechnology Program at
GCSAR by Nabila Ali Bacha; Chapter 16: Uganda-Report on the Present Status Policies and Constraints in Genetic
Engineering by Khyeune Gerald Mwanga.
Peptide-based Biomaterials - Mustafa O. Guler - 2020-11-26

Circulating Tumor Cells - Richard J. Cote - 2016-02-03
This volume provides the latest research on circulating tumor cells aimed for cancer researchers, scientists, and molecular oncologists. It presents the basic concepts behind circulating tumor cells (CTCs), metastatic biology, and potential applications as to how CTCs can be used in diagnostic biomarkers. CTCs are cells that have detached from the primary tumor and circulate in the bloodstream. Such cells may become "seeds" for the growth of additional tumors. The field of analysis surrounding cancer metastasis has been steadily growing, and CTCs provide effective biomarkers that can be examined in peripheral blood through a minimally invasive "liquid biopsy" procedure. CTCs offer several exciting applications, not only as markers of disease progression but also as biomarkers of monitoring response to therapy and companion diagnostics for novel anticancer drug development.

This selection of key presentations from the Food Structures, Digestion and Health conference is devoted to the unique and challenging interface between food science and nutrition, and brings together scientists across several disciplines to address cutting-edge research issues. Topics include modeling of the gastrointestinal tract, effect of structures on digestion, and design for healthy foods. This book reviews the latest developments in our understanding of microbial endophytes and their potential for disease diagnosis and treatments.

Peptide-based Biomaterials - Mustafa O. Guler - 2020-11-26
Research and new tools in biomaterials development by using peptides are currently growing, as more functional and versatile building blocks are used to design a host of functional biomaterials via chemical modifications for health care applications. It is a field that is attracting researchers from across soft matter science, molecular engineering and biomaterials science. Covering the fundamental concepts of self-assembly, design and synthesis of peptides, this book will provide a solid introduction to the field for those interested in developing functional biomaterials by using peptide derivatives. The bioactive nature of the peptides and their physical properties are discussed in various applications in biomimetics. This book will help researchers and students working in biomaterials and biomedicine fields and help their understanding of modulating biological processes for disease diagnosis and treatments.

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Food Structures, Digestion and Health - Mike Boland - 2014-03-24
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Understanding of a particular facet of life from childhood into adulthood. As a child born into the milieu of his understanding of endophytes has increased exponentially in recent decades. These microbes, such as fungi, bacteria, and actinobacteria, establish a symbiotic or parasitic association with plants. A better understanding of endophytic microorganisms may help to elucidate their functions and potential role in developing sustainable systems of crop production and improved protection against biotic stresses. Endophytes play a vital role in plant growth and health promotion. Endophytic bacteria are of agrobiological interest because they create host-endophyte relationships, which can open exciting prospects for newer biotechnological applications. Endophytes have also proven to be a beneficial and sustainable alternative to agrochemicals such as pesticides, pesticides, pest, pesticides, biopesticides, and biocontrol agents. As such, it is imperative that we explore these products’ industrial applications in the fields of biotechnology, pharmacy, and agriculture. This book offers valuable guidance for botanists, microbiologists, biotechnologists, molecular biologists, environmentalists, policymakers, conservationists, and those working for the protection of plant species of agricultural and medicinal importance.

Endophytes: Crop Productivity and Protection - Dinesh K. Maheshwari - 2017-11-14
This book reviews the latest developments in our understanding of microbial endophytes and their potential applications in enhancing productivity and disease protection. It covers all the latest discoveries regarding endophytes, their interactions with plants and application in agricultural productivity and protection. Our understanding of endophytes has increased exponentially in recent decades. These microbes, such as fungi, bacteria, and actinobacteria, establish a symbiotic or parasitic association with plants. A better understanding of endophytic microorganisms may help to elucidate their functions and potential role in developing sustainable systems of crop production and improved protection against biotic stresses. Endophytes play a vital role in plant growth and health promotion. Endophytic bacteria are of agrobiological interest because they create host-endophyte relationships, which can open exciting prospects for newer biotechnological applications. Endophytes have also proven to be a beneficial and sustainable alternative to agrochemicals due to their role in the biocontrol of pests and diseases. Further, endophytes are essential to the production of secondary metabolites in grasses, the process of gummosis in trees, and the production of useful metabolites such as alkaloids, terpenoids, and antibiotic activity. Endophytes are also beneficial in the production of enzymes, biosurfactants, biocontrol agents, and plant growth promoters. As such, it is imperative that we explore these products’ industrial applications in the fields of biotechnology, pharmacy, and agriculture. This book offers valuable guidance for botanists, microbiologists, biotechnologists, molecular biologists, environmentalists, policymakers, conservationists, and those working for the protection of plant species of agricultural and medicinal importance.

Looking for the Gulf Motel - Richard Blanco - 2012-02-12
Family continues to be a wellspring of inspiration and learning for Blanco. His third book of poetry, Looking for the Gulf Motel, is a genealogy of the heart, exploring how his family’s emotion legacy has shaped—and continues shaping—his perspectives. The collection is presented in three movements, each one chronicling his understanding of a particular facet of life from childhood into adulthood. As a child born into the milieu of his Cuban exiled family, the first movement delves into early questions of cultural identity and their evolution into his unrelenting sense of displacement and quest for the elusive meaning of home. The second, begins with poems peering back into family again, examining the blurred lines of gender, the frailty of his father-son relationship, and the intersection of his cultural and sexual identities as a Cuban-American gay man living in rural Maine. In the last movement, poems focused on his mother’s life shaped by exile, his father’s death, and the passing of a generation of relatives, all provide lessons about his own impermanence in the world and the permanence of loss. Looking for the Gulf Motel is looking for the beauty of that which we cannot hold onto, be it country, family, or love.

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Transboundary Conservation - Patricio Robles Gil - 2005-01
Conservation International has been instrumental in raising awareness and concern about the most environmentally endangered regions and animals throughout the world, and in several oceans. Eminent scientists and conservationists contribute detailed histories of the areas, from the birth of the initial conservation efforts to the latest research that reveals new regions and assesses the success of the programs to protect existing ones. Accompanying the analyses are Conservation International’s trademark vibrant full-color photographs that powerfully document these rapidly disappearing treasures. Following in the footsteps of Hotspots, Wilderness, Wildlife Spectacles, and Hotspots Revisited, Transboundary Conservation is an essential resource for all those concerned about the future of our environment.

Stem Cell Engineering - Robert M. Nerem - 2014-06-12
This book describes a broad assessment of stem cell engineering research, achieved through site visits by a panel of experts to leading institutes, followed by dedicated workshops. The assessment made clear that engineers and the engineering approach with its quantitative, system-based thinking can contribute much to the progress of stem cell research and development. The increased need for complex computational models and new, innovative technologies, such as high-throughput screening techniques, organ-on-a-chip models and in vitro tumor models require an increasing involvement of engineers and physical scientists. Additionally, this book will show that although the US is still a leader in stem cell engineering, Asian countries such as China, India and Korea, as well as European countries like the UK, Germany, Sweden and the Netherlands are rapidly expanding their investments in the field. Strategic partnerships between countries could lead to major advances of the field and scalable expansion and differentiation of stem cells. This study was funded by the National Science Foundation (NSF), the National Institutes of Health (NIH) and the National Institute of Standards and Technology (NIST).
Cardiovascular Biomechanics - Peter R. Hoskins - 2017-02-16
This book provides a balanced presentation of the fundamental principles of cardiovascular biomechanics research, as well as its valuable clinical applications. Pursuing an integrated approach at the interface of the life sciences, physics and engineering, it also includes extensive images to explain the concepts discussed. With a focus on explaining the underlying principles, this book examines the physiology and mechanics of circulation, mechanobiology and the biomechanics of different components of the cardiovascular system, in-vivo techniques, and the medical applications of this research. Written for undergraduate and postgraduate students and including sample problems at the end of each chapter, this interdisciplinary text provides an essential introduction to the topic. It is also an ideal reference text for researchers and clinical practitioners, and will benefit a wide range of students and researchers including engineers, physicists, biologists and clinicians who are interested in the area of cardiovascular biomechanics.

Thoroughly acquainting the reader with freeze-drying fundamentals, Freeze-Drying/Lyophilization of Pharmaceutical and Biological Products, Second Edition carves practical guidelines from the very latest theoretical research, technologies, and industrial procedures. It delineates the best execution of steps from closure preparation and regulatory control of products to equipment sterilization and process validation. With 13 new chapters providing state-of-the-art information, this book unveils innovations currently advancing the field, including LYOGUARD® packaging for bulk freeze-drying and the irradiation of pharmaceutical and biological products.

Tissue Engineering I - Kyongbum Lee - 2006-10-06
This book covers trends in modern biotechnology. All aspects of this interdisciplinary technology, where knowledge, methods and expertise are required from Chemistry, Biochemistry, Microbiology, Genetics, Chemical Engineering and Computer Science, are treated. More information as well as the electronic version available at springeronline.com

Tissue Engineering II - Kyongbum Lee - 2006-11-14
It is our pleasure to present this special volume on tissue engineering in the series Advances in Biochemical Engineering and Biotechnology. Thissvolume re:ects the emergence of tissue engineering as a core discipline of modern biomedical engineering, and recognizes the growing synergies between the technological developments in biotechnology and medicine. Along this vein, the focused thisvolume into a bioengineering-driven perspective on cell engineering fundamentals while highlighting their signi?cance in p- ducing functional tissues. Our aim is to present an overview of the state of the art of a selection of these technologies, punctuated with current applications in the research and development of cell-based therapies for human disease. To prepare this volume, we have solicited contributions from leaders and experts in their respective ?elds, ranging from biomaterials and bioreactors to gene delivery and metabolic engineering. Particular emphasis was placed on including reviews that discuss various aspects of the biochemical p- cesses underlying cell function, such as signaling, growth, differentiation, and communication. The reviews of research topics cover two main areas: cellular and non-cellular components and assembly; evaluation and optimization of tissue function; and integrated reactor or implant system development for research and clinical applications. Many of the reviews illustrate how bioche- cal engineering methods are used to produce and characterize novel materials (e. g. genetically engineered natural polymers, synthetic scaffolds with ce- type speci?c attachment sites or inductive factors), whose unique properties enable increased levels of control over tissue development and architecture.
The first woman to own and host a nationally syndicated daily talk show, and the first female president of CNN - Kyongbum Lee - 2006-11-14

It is our pleasure to present this special volume on tissue engineering in the series Advances in Biochemical Engineering and Biotechnology. This volume re-launched the emergence of tissue engineering as a core discipline of modern biomedical engineering, and recognizes the growing synergies between the technological developments in biotechnology and biomechanics. Along this vein, the focus of this volume is to introduce the foundational concepts on the use of tissue engineering in cellular and non-cellular components and assembly; evaluation and optimization of tissue function; and integrated models of mechanotransduction for research and clinical applications. Many of the reviews illustrate how the critical engineering methods are used to produce and characterize novel materials (e.g., genetically engineered natural polymers, synthetic scaffolds with specific attachment sites or inductive factors), whose unique properties enable increased levels of control over tissue development and architecture.

**How Scientists Explain Disease** - Paul Thagard - 2000-07-30

How do scientists develop new explanations of disease? How do those explanations become accepted as true? And how does medical diagnosis change when physicians are confronted with new scientific evidence? These are some of the questions that Paul Thagard pursues in this book that develops a new, integrative approach to the study of science. How Scientists Explain Disease challenges both traditional philosophy of science, which has viewed science as largely a matter of logic, and contemporary science studies that view science as largely a matter of power. Drawing on theories of distributed computing and artificial intelligence, Paul Thagard develops new models that make sense of scientific change as a complex system of cognitive, social, and physical interactions.

**Marketing in Sri Lanka** - 1982

**Marketing in Sri Lanka** - 1982

**Becoming a Dangerous Woman** - Pat Mitchell - 2019-10-08

An intimate and inspiring memoir and call to action from Pat Mitchell – groundbreaking media icon, global advocate for women's rights, and co-founder and curator of TEDWomen Pat Mitchell is a serial ceiling smasher. The first woman to own and host a nationally syndicated daily talk show, and the first female president of CNN productions and PBS. Mitchell has been lauded as a powerful changemaker and a relentless advocate for women and girls. In Becoming a Dangerous Woman, Mitchell shares her own path to power, from a childhood spent on a cotton farm in the South to her unprecedented rise in media and global affairs. Full of intimate, fascinating stories, such as an encounter with Fidel Castro while wearing a swimsuit, and traveling to war zones with Eve Ensler and Glenn, Becoming a Dangerous Woman is an inspiring call to arms for women who are ready to dismantle the barriers they see in their own lives.

**Annual Report of Research 1974-75 - 1976**

**Endophytes and Secondary Metabolites** - Sumita Jha - 2019-09-28

This reference work presents an authoritative review of endophytes and their applications to human welfare. Endophytes have become a class of interesting and curious microorganisms due to their intimate intra- and intercellular association with plants for competence, survival and reproduction. They can be bacteria or fungi, and they are usually non-pathogenic to their host. Endophytes have important applications in agriculture and industry, namely, they can help with plant growth, act as biocontrol agents and biosurfactant and secondary metabolite producers, and they are also rich sources of bioactive natural products. Novel and beneficial effects of endophytes are constantly emerging, and this book, divided into four sections, provides readers with the latest developments in this fast expanding field. In the first section, readers will discover the biology of the major groups of endophytes, followed by a summary of conventional and molecular tools for endophytes' identification in Section II. The production of high-value metabolites by endophytes will be explored in the third section of this book, and in the final section, readers will find several case studies, examples and prospects for endophytes' application in agriculture and industry. Written by leading international authors, this reference work will appeal to a wide readership, from students and researchers in the field of botany, biotechnology and agriculture to professionals interested in the production and applications of endophytic metabolites.

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**Antimicrobial Nanoarchitectonics** - Alexandru Mihai Grumezescu - 2017-06-22

Antimicrobial Nanoarchitectonics: From Synthesis to Applications brings together recent research in antimicrobial nanoparticles, specifically in the sustained and controlled delivery of antimicrobials. Particular attention is given to i) reducing the side effects of antibiotics, ii) increasing the pharmacological effect, and iii) improving aqueous solubility and chemical stability of different antimicrobials. In addition, antimicrobial nanoparticles in drug delivery are discussed extensively. The book also evaluates the pros and cons of using nanostructured biomaterials in the prevention and eradication of infections. It is an important reference resource for materials scientists and bioengineers who want to learn how nanomaterials are used in antimicrobial therapy. Provides readers with the information necessary to select the appropriate bionanomaterial to solve particular infection problems includes case studies, showing how particular bionanomaterials have been used to cure infections. Explains the central role that nanotechnology plays in modern antimicrobial therapy. Evaluates the pros
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Procedures of the International Conference on Pangea and the Paleozoic-Mesozoic Transition - Hongfu Yin - 1999
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Student Completion Rates - Victoria. Office of the Auditor-General - 2012
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Mid-Career Faculty - 2019-08-05
Mid-Career Faculty: Trends, Barriers, and Possibilities is designed for faculty leaders, administration, policymakers, and anyone concerned with the future of higher education. This text offers an examination into an often overlooked period of academic life, that of post-tenure mid-career faculty.

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Metal Nanoparticles - Sreekanth Thota - 2018-06-28
A much-needed summary of the importance, synthesis and applications of metal nanoparticles in medical sciences, with a focus on gold, silver, copper and platinum nanoparticles. After a brief introduction to the history of metal complexes in medicine and fundamentals of nanotechnology, the chapters continue to describe different methods for preparation of metal nanoparticles. This section is followed by representative presentations of current biomedical applications, such as drug delivery, chemotherapy, and diagnostic imaging. Aimed at stimulating further research in this field, the book serves as an reference guide for academics and professionals working in the field of chemistry and nanotechnology.

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Genotoxicity Assessment - Alok Dhawan - 2013-08-08
Genetic toxicology is recognized by geneticists and researchers concerned with the genetic impact of man-made chemicals. In Genotoxicity Assessment: Methods and Protocols, expert researchers in the field provide comprehensive genetic toxicology protocols. These include in vitro and in vivo protocols on mutation assays, cytogenetic techniques, and primary DNA damage, assays in alternate to animal models, and updated ICH guidelines. Written in the highly successful Methods in Molecular Biology series format, the chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step and readily reproducible laboratory protocols, as well as key tips on troubleshooting and avoiding known pitfalls.

Endophytes - Ravindra H. Patil - 2021
This book describes the various therapeutic and commercial applications of compounds produced by endophytes. Endophytes are microorganisms that reside in the living internal tissues of plants without showing any apparent symptom of their presence. During their life cycle, they establish a symbiotic or parasitic relationship with the host plant. The book discusses different kinds of compounds that these endophytes produce, and their potential properties such as antimicrobial, anti-oxidative, anti-inflammatory, anticancer, neuromodulatory etc. Other prospects of entophytic biology such as fungi of wild and domesticated crop plants and their applications in sustainable agriculture have also been included. The book also provides details about various techniques used in endophyte research, metabolite detection and bioactivity-based assays to explore endophytes. Endophytes with phytohormones-producing potential and their role in plant-microbial interactions under stress are also discussed. The book also highlights novel strategies to tap into the hidden potential of endophytic fungi for the production of novel biomolecules using an integrated approach. These microorganisms have attracted a lot of scientific attention worldwide because of their huge potential for novel phytochemicals, pharmaceuticals and lead compounds. Hundreds of new novel endophytic fungi have been isolated, identified and systematically studied in last decade. However, this is the first of its kind, systematic compilation of potential biotechnological applications of endophytic compounds. Chapter contributions from groups across the globe make this book very up-to-date and informative. This book is very useful and interesting for students and researchers in the field of microbiology, plant sciences, mycology and pharmacology. It is also helpful for industry experts working on developing novel compounds.

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Delivery for the Treatment of Severe Diseases (Simona Mura and Patrick Couvreur) Increased Sensitivity for microbiology, plant sciences, mycology and pharmacology. It is also helpful for industry experts working on developing novel compounds.

**Imaging in Neuroscience** - Fritz Hofkenschen - 2011
The manual also features a set of appendices with a glossary of imaging terms and other useful information on spectra, lenses, filters, and the safe handling of imaging equipment.

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**Procedures of 2nd International Conference on Intelligent Computing and Applications** - P. Deiva Sundari - 2016-10-12
Second International Conference on Intelligent Computing and Applications was the annual research conference aimed to bring together researchers around the world to exchange research results and address open issues in all aspects of Intelligent Computing and Applications. The main objective of the second edition of the conference for the scientists, scholars, engineers and students from the academia and the industry is to present ongoing research activities and hence to foster research relations between the Universities and the Industry. The theme of the conference unified the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in computational intelligence and bridges theoretical research concepts with applications. The conference covered vital issues ranging from intelligent computing, soft computing, and communication to machine learning, industrial automation, process technology and robotics. This conference also provided variety of opportunities for the delegates to exchange ideas, applications and experiences, to establish research relations and to find global partners for future collaboration.

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**Nanotheranostics for Personalized Medicine** - Simona Mura - 2016-02-22
The application of nanotechnology in the biomedical field, known as nanomedicine, has gained much interest in the recent past as a versatile strategy for selective drug delivery and diagnostic purposes. The nanotheranostic approach, which aims to combine both therapeutic and imaging/diagnostic functionalities, is characterized by a strong pluridisciplinarity where the chemistry of materials, bioconjugate chemistry, pharmaceutical technology, drug delivery, imaging, and pharmacology, work together. Nanotheranostics combine simultaneous non-invasive diagnosis and treatment of diseases with the exciting possibility to monitor drug release and distribution in real time; thus offering the opportunity to optimize treatment outcomes in cancer and other severe diseases. Clinical applications of nanotheranostics would enable earlier detection and treatment of diseases, and earlier assessment of the response, thus allowing to identify patients which would potentially respond to therapy and have higher possibilities of a favorable outcome. Nanotheranostics for Personalized Medicine presents an integrated and transdisciplinary description of nanotheranostics. It provides principles of imaging techniques and concrete examples of advances and challenges in the development of nanotheranostics for personalized medicine. This book is written for students (Bachelors to Doctoral level) as well as experienced researchers, in academia or the industry, interested in this emerging concept in the nanomedicine field.

**Medical Imaging Using Non-Ionizing Nanomedicine as Contrast Agents** (Cyrielle Richard, Bich-Thuy Doan and Nathalie Mignet) MRI T2 Weighted Theranostic Nanodevices and Chemotherapy (Sophia Lauret, Luce Vander Elst, Dimitri Stanicki and Robert N Muller) MRI T1 Weighted Theranostic Nanodevices (Lucie Sanacey, François Lux, Géraldine Le Duc, Sabin Carme and Olivier Tillement) Optical Imaging and Chemotherapy (Guillaume Bort, Simona Mura and Patrick Couvreur)

**Optical Imaging and Chemotherapy** (Guillaume Bort, Simona Mura and Patrick Couvreur) Plasmonic Nanoparticles-Coated Microbubbles for Theranostic Applications (Mark A Borden, Jacob D Dove and Todd W Murray) Contribution of Nuclear Medicine to Cancer Nanotheranostics (Thomas Lars Andersen, Annacatrine L Petersen, Anders E Hansen and Jonas R Henniksen) Nanotheranostics in Gene Therapy (Madhura Deshpande, Shrvan Kumar Sriman and Vladimir Torchilin) Nanotheranostics in Cardiovascular Diseases (Maya Juenet, Mariana Varna, Cédric Chauvière and Didier Letourneur) Stimuli-Responsive Nanotheranostics (Basit Yameen, Jun Wu, Critian Vilos, Andrew Whyte David Westerl, Lori Pollit and Omid C Farokhzad) Advancing the Practical Clinical Utility in Personalized Medicine: Capabilities and Lessons Learned for Pharmacology and Pharmaceutics (Ioannis S Vizirianakis, Christina Karvassili, Elsa P Amanatidou and Dimitris C Fatouros) Readership: Advanced undergraduates, graduates, as well as experimental researchers in academia or the industry with an interest in this emerging concept in the nanomedicine world. Key Features:This book presents an integrated and transdisciplinary description of an emerging concept in the world of nanomedicine: nanotheranosticsThis work is one of the few dedicated to nanotheranostics and its applicationsWritten by well-recognized experts in academia, this book would offer to the reader a clear overview of the progresses in the field of nanotheranostics and their functional contribution to the future of personalized medicine.

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Written by well-recognized experts in academia, this book would offer to the reader a clear overview of the progresses in the field of nanotheranostics and their fundamental contribution to the field of personalized medicine. Reading this book would open the way to further improvements and to the possible clinical translation of the nanotheranostics concept in the not-too-distant future.

**Keywords:** Bioengineering; Nanomedicine & Nanobiology; Biomedical Engineering; Medical Imaging; Therapy

**Wind Turbines and Aerodynamics Energy Harvesters** - Dan Zhao - 2019-08-02

Wind Turbines and Aerodynamics Energy Harvesters not only presents the most research-focused resource on aerodynamic energy harvesters, but also provides a detailed review on aeroacoustics characteristics. The book considers all developing aspects of 3D printed miniature and large-size Savonious wind harvesters, while also introducing and discussing bladeless and aeroelastic harvesters. Following with a review of Off-shore wind turbine aerodynamics modeling and measurements, the book continues the discussion by comparing the numerical codes for floating offshore wind turbines. Each chapter contains a detailed analysis and numerical and experimental case studies that consider recent research design, developments, and their application in practice. Written by an experienced, international team in this cross-disciplinary field, the book is an invaluable reference for wind power engineers, technicians and manufacturers, as well as researchers examining one of the most promising and efficient sources of renewable energy. Offers numerical models and case studies by experienced authors in this field Contains an overview and analysis of the latest research Includes, and uses, ANSYS FLUENT case files

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