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Soft Computing and Signal Processing V. Sivakumar Reddy 2020-03-13 This book presents selected research papers on current developments in the fields of soft computing and signal processing from the Second International Conference on Soft Computing and Signal Processing (ICSCSP 2019). The respective contributions address topics such as soft sets, rough sets, fuzzy logic, neural networks, genetic algorithms and machine learning, and discuss various aspects of these topics, e.g. technological considerations, product implementation, and application issues.

Leadership Today Joan Marques 2016-08-24 This textbook provides a clear understanding of leadership needs in today's business world, explained within the scope of hard and soft leadership skills. It captures qualities and skills such as spirituality, empathy, moral behavior, mindfulness, empathy, problem solving, self-confidence, ambition, knowledge, global understanding, and information technology. This text explains and provides guidelines for the implementation of each skill and includes examples from contemporary and historical leaders inviting the reader to consider each quality and engage in self-reflection. This book deviates from excessive theoretical descriptions presenting a timely, hands-on approach to leadership. Featuring contributions from academics and professionals from around the world, this text will be of interest to students, researchers, professionals in business and leadership who aspire to lead beyond their immediate environment.

Industrial Oil Plant Changzhu Li 2021-06-24 This book systematically explains the application principles and green processing technologies of industrial oil plant. Firstly, the industrial plant oil resources are elaborated as an independent discipline for systematic research. Secondly, it has laid a solid theoretical foundation for the utilization of industrial plant oil resources, and will greatly promote the development of industrialization and modernization of industrial plant oil resources worldwide. Thirdly, it constructs integrated technology system of oil plant cultivation, oil extraction technology and products application. Finally, it elaborates a series of environmental issues including the protection of biodiversity and the balance of the forest ecology during the industrial plant oil resources processing. The technological process for green conversion of industrial plant oil resources to the oil-based materials and high value products will be of particular interest to the readers among oil researchers, producers and managers.

Biomass Chars: Elaboration, Characterization and Applications Lionel Limousy 2018 Biomass Chars: Elaboration, Characterization and Applications.

Neurodegenerative Disorders as Systemic Diseases Keiji Wada 2015-10-21 This book sheds new light on neurodegenerative disorders as systemic diseases. Classically, neuronal cell death was a hallmark of such disorders. However, it has become evident that neural dysfunction is more important in the pathophysiology of neurodegenerative disorders. More recently, the prionoid-spreading hypothesis of disease-causing molecules has attracted a great deal of attention. Therapeutic strategies thus must be reconsidered in the light that neurodegenerative disorders are indeed systemic diseases. The first part of this book introduces the concept of neurodegeneration in biology and pathophysiology. The second part focuses on clinical evaluation and biomarkers from the perspective of this new concept, while the third summarizes the risk factors of neurodegeneration. The fourth part of this work indicates future directions of treatment, and the final part discusses health promotion for prevention and quality of life. This book will be of interest to both researchers and medical personnel, and provides a fresh approach to neurodegenerative diseases, paving the way to new research and improved quality of health care for patients.

Regenerative Approaches in Dentistry Sepanta Hosseinpour 2021-01-25 This book provides evidence-based information in the field of regenerative dentistry discussing the most recent advances, current clinical applications, limitations and future directions. The coverage encompasses the regeneration of alveolar bone, the dentine-pulp complex, enamel, the periodontium and other tissues associated with the oral cavity. A full description is provided of regenerative approaches in dentistry including regenerative endodontics and tooth repair, regenerative periodontics, regenerative assisted orthodontics, regenerative approaches in oral medicine, and dental tissue derived stem cells and their potential applications. The book is written by an international team of leading experts. It will be beneficial for students, practitioners and researchers in the fields of endodontics, periodontics and implantology.

Recent Advances in Natural Products Analysis Seyed Mohammad Nabavi 2020-03-07 Recent Advances in Natural Products Analysis is a thorough guide to the latest analytical methods used for identifying and studying bioactive phytochemicals and other natural products. Chemical compounds, such as flavonoids, alkaloids, carotenoids and

saponins are examined, highlighting the many techniques for studying their properties. Each chapter is devoted to a compound category, beginning with the underlying chemical properties of the main components followed by techniques of extraction, purification and fractionation, and then techniques of identification and quantification. Biological activities, possible interactions, levels found in plants, the effects of processing, and current and potential industrial applications are also included. Focuses on the latest analytical techniques used for studying phytochemical and other biological compounds Authored and edited by the top worldwide experts in their field Discusses the current and potential applications and predicts future trends of each compound group

Essential Oil Research Sonia Malik 2019-06-07 This book highlights the advances in essential oil research, from the plant physiology perspective to large-scale production, including bioanalytical methods and industrial applications. The book is divided into 4 sections. The first one is focused on essential oil composition and why plants produce these compounds that have been used by humans since ancient times. Part 2 presents an update on the use of essential oils in various areas, including food and pharma industries as well as agriculture. In part 3 readers will find new trends in bioanalytical methods. Lastly, part 4 presents a number of approaches to increase essential oil production, such as in vitro and hairy root culture, metabolic engineering and biotechnology. Altogether, this volume offers a comprehensive look at what researchers have been doing over the last years to better understand these compounds and how to explore them for the benefit of the society.

Sustainable Agriculture Reviews 55 Vaibhav Kumar Maurya 2021-10-13 This book provides up to date information on the emerging trends and technology in food nanotechnology. It gives high-quality literature focused on the recent developments, research trends, methods and issues related to the safe use of nanoscale materials to add value to food. Most importantly, this book encloses critical reviews on micro and nanoengineering concepts, principles and applications in food. It also provides a scientific basis of micro and nanoengineered structures and compounds, their industrial food applications, encapsulation techniques and methods. This book encompasses detection, analysis and characterization techniques for nanostructures, the fate of encapsulated materials in target food. It also educates on regulatory issues and safety of clinical translation of nanomaterials in fortified foods.

Environmental Medicine Institute of Medicine 1995-05-28 People are increasingly concerned about potential environmental health hazards and often ask their physicians questions such as: "Is the tap water safe to drink?" "Is it safe to live near power lines?" Unfortunately, physicians often lack the information and training related to environmental health risks needed to answer such questions. This book discusses six competency based learning objectives for all medical school students, discusses the relevance of environmental health to specific courses and clerkships, and demonstrates how to integrate environmental health into the curriculum through published case studies, some of which are included in one of the book's three appendices. Also included is a guide on where to obtain additional information for treatment, referral, and follow-up for diseases with possible environmental and/or occupational origins.

Composite Materials Kamal K. Kar 2016-10-14 Composite materials are used as substitutions of metals/traditional materials in aerospace, automotive, civil, mechanical and other industries. The present book collects the current knowledge and recent developments in the characterization and application of composite materials. To this purpose the volume describes the outstanding properties of this class of advanced material which recommend it for various industrial applications.

Bio-Based Plant Oil Polymers and Composites Samy Madbouly 2015-08-27 Bio-based Plant Oil Polymers and Composites provides engineers and materials scientists a useful framework to help take advantage of the latest research conducted in this rapidly advancing field—enabling them to develop and commercialize their own products quickly and more successfully. Plant oil is one of the most attractive options as a substitute for non-renewable resources in polymers and composites, and is producing materials with very promising thermomechanical properties relative to traditional, petroleum-based polymers. In addition to critical processing and characterization information, the book assists engineers in deciding whether or not they should use a plant oil-based polymer over a petroleum-based polymer, discussing sustainability concerns, biodegradability, associated costs, and recommended applications. The book details the advancements in the development of polymeric materials and composites from plant oils, and provides a critical review of current applications in various fields, including packaging, biomedical, and automotive applications. Also includes the latest progress in developing multifunctional biobased polymers—by increasing thermal conductivity or adding antibacterial properties, for example. Essential coverage of processing, characterization, and the latest research into polymeric materials and composites derived from plant oils (thermoplastics, thermosets, nanocomposites, and fiber reinforced composites) Critically reviews the potential applications of plant oil-based polymers, including sensors, structural parts, medical devices, and automotive interiors Includes the latest developments in multifunctional bio-based polymer composites

Functional Food Products and Sustainable Health Saghir Ahmad 2020-08-29 There is a growing global awareness of the link between good diet and health. This fascinating book reviews various functional foods or nutraceuticals and the bio-active compounds they contain in order to identify the role of bioactive compounds such as nisin, micronutrients, and hydrocolloids in the diet in overall human health. It also provides up-to-date information on functional elements like antioxidants, dietary fibres, pre & probiotics, vitamins and mineral-enriched foods in the human diet. Consisting of fifteen chapters, the book offers a systematic review of the key factors in the preparation of functional foods from selected sources, and also describes the processing, preservation and packaging of a range of functional food products. This book is a valuable resource for students and researchers working in the field of food science, food technology, and nutrition, as well as for industry experts.

Handbook of Nutraceuticals and Functional Foods, Second Edition Robert E.C. Wildman 2016-04-19 Scientific advances

in this field have not only given us a better understanding of what is an optimal diet, but has allowed food and nutraceutical companies to market products with specific health claims, fortify existing foods, and even create new foods designed for a particular health benefit. Handbook of Nutraceuticals and Functional Foods, Second Edition, compiles the latest data from authoritative, scientific sources. It provides hard evidence on the prophylactic and medicinal properties of many natural foods. This handbook reviews more than 200 nutraceutical compounds. Each chapter includes the chemical properties, biochemical activity, dietary sources, and evidentiary findings for each compound. New topics include the use of exopolysaccharides from lactic acid bacteria, protein as a functional ingredient for weight loss, and nutraceuticals to be used in the adjunctive treatment of depression. Two new chapters discuss recent evidence on oxidative stress and the antioxidant requirements of athletes as well as the use of nutraceuticals for inflammation. The scientific investigation of nutrition and lifestyle changes on the pain and debilitation of osteoarthritis is the subject of another new article. The book concludes with a look at future marketing opportunities paying particular attention to the alleviation of obesity. With contributions from a panel of leading international experts, Handbook of Nutraceuticals and Functional Foods, Second Edition, provides instant access to comprehensive, cutting edge data, making it possible for food scientists, nutritionists, and researchers to utilize this ever growing wealth of information.

Trichoderma: Agricultural Applications and Beyond Chakravarthula Manoharachary 2022-01-06 This book gives a comprehensive overview on the various aspects of Trichoderma, a filamentous fungus ubiquitously present in soil. Topics addressed are the biology, diversity, taxonomy, ecology, biotechnology and cultivation of Trichoderma, to just name a few. Basic as well as applied aspects are covered and a special focus is given on use of Trichoderma in agriculture and beyond. Trichoderma species are widely distributed throughout the world in soil, rotting plant material, and wood. Although they are often considered as contaminants, Trichoderma species are also known for their ability to act as biocontrol agents against various plant pathogens and plant diseases, and also as biostimulants promoting plant growth. The contents of this book will be of particular interest to, agricultural scientists, biotechnologists, plant pathologists, mycologists, and microbiologists, students, extension workers, policy makers and other stakeholders.

Eular Compendium on Rheumatic Diseases Johannes WJ. Bijlsma 2009 The compendium on Rheumatic Diseases found its origin in the successful EULAR on-line course on rheumatic diseases. The yearly updated reviews of the fifty modules of that course form the content of this book. Each chapter is written by two dedicated expert rheumatologists from two different countries, to get a balanced view. Most of them were assisted by a junior doctor or researcher from their own department, in order to stimulate focus on modern educational goals and techniques. The fifty chapters, encompassing the whole spectrum of rheumatology, brought together in a textbook, are a vital part of rheumatologists' continuing medical education, keeping doctors up to date in daily practice. The structure of the chapters in the Compendium is the same as the one of the modules in the on-line course: starting with learning points, text with many figures, tables and pictures, a summary, and a limited number of key references.

Health assessment document for inorganic arsenic 1985

Occupational Exposure to Chromium (VI). National Institute for Occupational Safety and Health. Office of Research and Standards Development 1976

Physiological and Biotechnological Aspects of Extremophiles Richa Salwan 2020-06-04 Physiological and Biotechnological Aspects of Extremophiles highlights the current and topical areas of research in this rapidly growing field. Expert authors from around the world provide the latest insights into the mechanisms of these fascinating organisms use to survive. The vast majority of extremophiles are microbes which include archaea, bacteria and some eukaryotes. These microbes live under chemical and physical extremes that are usually lethal to cellular molecules, yet they manage to survive and even thrive. Extremophiles have important practical uses. They are a valuable source of industrially important enzymes and recent research has revealed novel mechanisms and biomolecular structures with a broad range of potential applications in biotechnology, biomining, and bioremediation. Aimed at research scientists, students, microbiologists, and biotechnologists, this book is an essential reading for scientists working with extremophiles and a recommended reference text for anyone interested in the microbiology, bioprospecting, biomining, biofuels, and extremozymes of these organisms. Shows the implications of the physiological adaptations of microbes from extreme habitats that are largely contributed by their biomolecules from basic to applied research Provides in-depth knowledge of genomic plasticity and proteome of different extremophiles Gives detailed and comprehensive insight about use of genetic engineering as well as genome editing for industrial applications

Pelvic Organ Dysfunction in Neurological Disease Clare J. Fowler 2010-11-04 Pelvic Organ Dysfunction in Neurological Disease describes the neurological control of human bladder, bowel and sexual function and then details the dysfunctions which may arise as a consequence of various neurological diseases. Easy to read, the book will be of value to any healthcare professional managing patients in whom pelvic organ functions have been compromised by neurological disease. The book provides a structured approach to present day understanding of the neurological control of pelvic organs and the investigation and management of each type of organ dysfunction. A unique feature of this book is that it addresses the impact of specific neurological disorders on all three functions. The authors have all been associated with the Department of Uro-Neurology at the National Hospital for Neurology and Neurosurgery, London since it was established 20 years ago. This book is a timely review of their accumulated knowledge and the latest literature.

The Biology of Gastric Cancers Timothy Wang 2009-02-25 As someone who has spent nearly half his life wondering about the relationship between Helicobacter and gastric cancer, I find this textbook on the subject exciting and timely. In fact, I am not aware of any other volume that has been able to distil so much new knowledge into such a comprehensive account of a poorly understood field. Taking my own view, as a scientist placed in the middle of the spectrum between basic science and clinical medicine, I can see that the editors, Jim Fox, Andy Giraud, and Timothy Wang, provide a broad

mix of expertise, which ensures that the subject is treated with the right balance. From clinicopathologic observations in humans, to epidemiology, through animal models, to molecular and cell biology, this team has hit the mark for most readers. Fox is a well-known leader in animal models with broad expertise. He pioneered the field with observations on *Helicobacter* species in animals, from the time when only one spiral gastric bacterium was known, "*Campylobacter pyloridis*." Fox partners with Wang, whose team recently announced a dramatic advance in the field of carcinogenesis—the observation that bone marrow–derived stem cells participate in the changes that become cancer. To this nice mix has been added Andy Giraud from my own country, who brings to the table some remarkable genetic models of gastric cancer based on alterations in the gp130/stat3-signaling pathway.

**Weight Control and Physical Activity** International Agency for Research on Cancer 2002 Avoiding overweight and obesity is the best-established diet-related risk factor for cancer. The proportion of people who are overweight/obese is increasing, and the amount of physical activity is decreasing in most populations, including urban populations in many developing countries. The increasing prevalence of overweight/obesity is presumably due to the increasing availability of highly palatable, high energy foods and an increasing sedentary lifestyle due to mechanisation of both workplace and leisure activities. Overweight/obesity and reduced physical activity increases the risk of cancers in various organs.

Maintaining a healthy body weight and regular physical activity is the second most important way to prevent cancer, after tobacco control. The suggestions of possible public health action aimed at tackling these risk factors include education activities to promote balanced diets which are not excessive in energy and broad education and planning to enable and encourage physical activity during work and leisure. The Handbook Volume 6 on Weight Control and Physical Activity contains a full discussion of this topic, together with recommendations for public health action.

**Dynamic Light Scattering** R. Pecora 2013-11-11 In the twenty years since their inception, modern dynamic light-scattering techniques have become increasingly sophisticated, and their applications have grown exceedingly diverse. Applications of the techniques to problems in physics, chemistry, biology, medicine, and fluid mechanics have proliferated. It is probably no longer possible for one or two authors to write a monograph to cover in depth the advances in scattering techniques and the main areas in which they have made a major impact. This volume, which we expect to be the first of a series, presents reviews of selected specialized areas by renowned experts. It makes no attempt to be comprehensive; it emphasizes a body of related applications to polymeric, biological, and colloidal systems, and to critical phenomena. The well-known monographs on dynamic light scattering by Berne and Pecora and by Chu were published almost ten years ago. They provided comprehensive treatments of the general principles of dynamic light scattering and gave introductions to a wide variety of applications, but naturally they could not treat the new applications and advances in older ones that have arisen in the last decade. The new applications include studies of interacting particles in solution (Chapter 4); scaling approaches to the dynamics of polymers, including polymers in semidilute solution (Chapter 5); the use of both Fabry-Perot interferometry and photon correlation spectroscopy to study bulk polymers (Chapter 6); studies of micelles and microemulsions (Chapter 8); studies of polymer gels (Chapter 9).

**Advances in Systems, Control and Automations** Akash Kumar Bhoi 2021-03-19 This book comprises select proceedings of the international conference ETAEERE 2020. This volume covers latest research in advanced approaches in automation, control based devices, and adaptive learning mechanisms. The contents discuss the complex operations and behaviors of different systems or machines in different environments. Some of the areas covered include control of linear and nonlinear systems, intelligent systems, stochastic control, knowledge-based systems applications, fault diagnosis and tolerant control, and real-time control applications. The contents of this volume can be useful for researchers as well as professionals working in control and automation.

**Global Perspectives on Underutilized Crops** Munir Ozturk 2018-05-17 Increase in world population, extreme weather conditions, decrease in fresh water supplies, and changes of dietary habits are major issues that affect global food security. We are expected to face the challenges of land use by 2050 because population will reach 9 billion while agricultural productivity losses are expected due to overuse of lands. How can we feed the next generations in a manner that respects our finite natural resources? Managing our resources in a sustainable way have only begun for selected crops. Much remains to be done to increase food yield. Cropping practices capable of sustainable production need to be elaborated, especially in fragile ecosystems. Typical applications will include the improvement and use of genetic resources; crop management and diversification; diffusion of improved varieties; development of cropping systems; sustainable cropping systems for areas prone to environmental degradation; use of agro-ecological data for crop production forecasting; and networks for regional coordination, and data exchange. The impetus behind this book is to bring attention to a cropping system that bears direct relevance to sustainable agriculture and food security.

"Underutilized" crops are found in numerous agricultural ecosystems and often survive mainly in marginal areas. It is timely to review their status because, in recent decades, scientific and economic interests have emerged which focus on lesser-known cultivated species. Underutilized crops have a great potential to alleviate hunger directly, through increasing food production in challenging environments where major crops are severely limited. "Global Perspectives on Underutilized Crops" is therefore topical and highlights the unmet agricultural challenges that we face today. This book is an important resource for students and researchers of crop science and agricultural policy makers.

**Prognostic Factors in Cancer** Paul Hermanek 2012-12-06 M. K. Gospodarowicz, P. Hermanek, and D. E. Henson Attention to innovations in cancer treatment has tended to eclipse the importance of prognostic assessment. However, the recognition that prognostic factors often have a greater impact on outcome than available therapies and the proliferation of biochemical, molecular, and genetic markers have resulted in renewed interest in this field. The outcome in patients with cancer is determined by a combination of numerous factors. Presently, the most widely recognized are the extent of disease, histologic type of tumor, and treatment. It has been known for some time that additional factors also influence

outcome. These include histologic grade, lymphatic or vascular invasion, mitotic index, performance status, symptoms, and most recently genetic and biochemical markers. It is the aim of this volume to compile those prognostic factors that have emerged as important determinants of outcome for tumors at various sites. This compilation represents the first phase of a more extensive process to integrate all prognostic factors in cancer to further enhance the prediction of outcome following treatment. Certain issues surrounding the assessment and reporting of prognostic factors are also considered. Importance of Prognostic Factors Prognostic factors in cancer often have an immense influence on outcome, while treatment often has a much weaker effect. For example, the influence of the presence of lymph node involvement on survival of patients with metastatic breast cancer is much greater than the effect of adjuvant treatment with tamoxifen in the same group of patients [5].

**Pollutants from Energy Sources** Rashmi Avinash Agarwal 2019 This book discusses different aspects of energy consumption and environmental pollution, describing in detail the various pollutants resulting from the utilization of natural resources and their control techniques. It discusses diagnostic techniques in a simple and easy-to-understand manner. It will be useful for engineers, agriculturists, environmentalists, ecologists and policy makers involved in area of pollutants from energy, environmental safety, and health sectors.

**Advanced Gold** Sally Burgess 2001 The Gold series builds students' confidence through carefully graded exam training and thorough language development. This new edition features 100% new content yet retains the winning formula that has made it so popular with students, whether they are aiming for exam excellence, or simply greater confidence in English.

**Surgical Management of Urolithiasis** Stephen Y. Nakada 2013-05-18 Written entirely by surgical urologists, *Surgical Management of Urolithiasis: Percutaneous, Shockwave and Ureteroscopy* presents a comprehensive overview of the past, present, and future of surgical techniques, with a focus on educating urologists on the full spectrum of stone procedures. In addition to the technical issues, detailed complications are described. Basic as well as advanced techniques are presented in both a didactic and visual mode with representative endoscopic images and radiographs. Recent advancements which are not routinely a core component of surgical training programs are also covered in detail. Compact and extensively illustrated, *Surgical Management of Urolithiasis: Percutaneous, Shockwave and Ureteroscopy* is a unique and valuable resource in the field of surgical urolithiasis, essential both for those currently in training and for those already in clinical practice.

**'Essentials of Cancer Genomic, Computational Approaches and Precision Medicine** 2020 This book concisely describes the role of omics in precision medicine for cancer therapies. It outlines our current understanding of cancer genomics, shares insights into the process of oncogenesis, and discusses emerging technologies and clinical applications of cancer genomics in prognosis and precision-medicine treatment strategies. It then elaborates on recent advances concerning transcriptomics and translational genomics in cancer diagnosis, clinical applications, and personalized medicine in oncology. Importantly, it also explains the importance of high-performance analytics, predictive modeling, and system biology in cancer research. Lastly, the book discusses current and potential future applications of pharmacogenomics in clinical cancer therapy and cancer drug development.

**New Frontiers in Stress Management for Durable Agriculture** Amitava Rakshit 2020-03-23 Using accessible farming practices to meet the growing demands on agriculture is likely to result in more intense competition for natural resources, increased greenhouse gas emissions, and further deforestation and land degradation, which will in turn produce additional stress in the soil-water-plant-animal continuum. Stress refers to any unfavorable force or condition that inhibits customary functioning in plants. Concurrent manifestations of different stresses (biotic and abiotic) are very frequent in the environment of plants, which consequently reduces yield. Better understanding stress not only changes our perspective on the current environment, but can also bring a wealth of benefits, like improving sustainable agriculture and human beings' living standards. Innovative systems are called for that protect and enhance the natural resource base, while increasing productivity via 'holistic' approaches, such as agroecology, agro-forestry, climate-smart agriculture and conservation agriculture, which also incorporate indigenous and traditional knowledge. The book 'New Frontiers in Stress Management for Durable Agriculture' details the current state of knowledge and highlights scientific advances concerning novel aspects of plant biology research on stress, biotic and abiotic stress responses, as well as emergent amelioration and reclamation technologies to restore normal functioning in agroecology.

**Chitin and Chitosan: Properties and Applications** Lambertus A. M. van den Broek 2020-01-28 Offers a comprehensive guide to the isolation, properties and applications of chitin and chitosan *Chitin and Chitosan: Properties and Applications* presents a comprehensive review of the isolation, properties and applications of chitin and chitosan. These promising biomaterials have the potential to be broadly applied and there is a growing market for these biopolymers in areas such as medical and pharmaceutical, packaging, agricultural, textile, cosmetics, nanoparticles and more. The authors – noted experts in the field – explore the isolation, characterization and the physical and chemical properties of chitin and chitosan. They also examine their properties such as hydrogels, immunomodulation and biotechnology, antimicrobial activity and chemical enzymatic modifications. The book offers an analysis of the myriad medical and pharmaceutical applications as well as a review of applications in other areas. In addition, the authors discuss regulations, markets and perspectives for the use of chitin and chitosan. This important book: Offers a thorough review of the isolation, properties and applications of chitin and chitosan. Contains information on the wide-ranging applications and growing market demand for chitin and chitosan Includes a discussion of current regulations and the outlook for the future Written for Researchers in academia and industry who are working in the fields of chitin and chitosan, *Chitin and Chitosan: Properties and Applications* offers a review of these promising biomaterials that have great potential due to their material properties

and biological functionalities.

The Centenary Volume of the Baptist Missionary Society, 1792-1892 Baptist Missionary Society 1892

Nanobiotechnology Applications in Plant Protection Kamel A. Abd-Elsalam 2019-10-04 Nanobiotechnology Applications in Plant Protection: Volume 2 continues the important and timely discussion of nanotechnology applications in plant protection and pathology, filling a gap in the literature for nano applications in crop protection. Nanobiopesticides and nanobioformulations are examined in detail and presented as powerful alternatives for eco-friendly management of plant pathogens and nematodes. Leading scholars discuss the applications of nanobiomaterials as antimicrobials, plant growth enhancers and plant nutrition management, as well as nanodiagnostic tools in phytopathology and magnetic and supramagnetic nanostructure applications for plant protection. This second volume includes exciting new content on the roles of biologically synthesized nanoparticles in seed germination and zinc-based nanostructures in protecting against toxigenic fungi. Also included is new research in phytotoxicity, nano-scale fertilizers and nanomaterial applications in nematology and discussions on Botrytis grey mold and nanobiocontrol. This book also explores the potential effects on the environment, ecosystems and consumers and addresses the implications of intellectual property for nanobiopesticides. Further discussed are nanotoxicity effects on the plant ecosystem and nano-applications for the detection, degradation and removal of pesticides.

Psychological, Emotional, Social and Cognitive Aspects of Implantable Cardiac Devices Riccardo Proietti 2017-07-20

Electrical therapy of the heart has rapidly evolved over recent years with the development of the cardiac implantable defibrillator and the application of the cardiac resynchronization therapy to improve performance of the congestive failed heart. There is an impressive amount of literature produced to assess the efficacy and effectiveness of the electrical therapy. New technology is continuously introduced into the market for the treatment of electrical heart disease with optimized performance and implemented design, with approximately 600,000 new pacemakers implanted each year. Attention of the electrophysiology community has mainly focused on the biomedical aspects of electrical therapy, but the psychological, emotional, social and cognitive aspects of the implantable devices has been largely overlooked. Health-related quality of life (QoL) and, to a lesser extent, psychological disorders, i.e. anxiety and depression, have rarely been assessed as outcomes in clinical trials, and results are pointing towards the impact of the implantable devices on QoL and mental health not being direct but moderated and mediated by several biomedical as well as psychosocial variables. Furthermore, the cognitive effects of the implantable devices have rarely been assessed in empirical studies, although cognitive impairment is largely associated with the heart disorders that require implantation of an electrical device and cognitive benefits are strongly expected from the therapy. The aim of this book is to collect, appraise and condense the results of all empirical studies that have investigated, even marginally, the relationships between the implantable devices and any psychological, emotional, social and cognitive dimension. This book is a cornerstone for all involved in device utilization (physicians, nurses, technicians, industry representatives) that need to understand this topic.?

Nanotechnology in Skin, Soft Tissue, and Bone Infections Mahendra Rai 2020-01-14 The main goal of the present book is to deal with the role of nanobiotechnology in skin, soft tissue and bone infections since it is difficult to treat the infections due to the development of resistance in them against existing antibiotics. The present interdisciplinary book is very useful for a diverse group of readers including nanotechnologists, medical microbiologists, dermatologists, osteologists, biotechnologists, bioengineers. Nanotechnology in Skin, Soft-Tissue, and Bone Infections is divided into four sections: Section I- includes role of nanotechnology in skin infections such as atopic dermatitis, and nanomaterials for combating infections caused by bacteria and fungi. Section II- incorporates how nanotechnology can be used for soft-tissue infections such as diabetic foot ulcer and other wound infections; Section III- discusses about the nanomaterials in artificial scaffolds bone engineering and bone infections caused by bacteria and fungi; and also about the toxicity issues generated by the nanomaterials in general and nanoparticles in particular. The readers will be immensely enriched by the knowledge of new and emerging nanobiotechnologies in a variety of platforms.

Wellington Sears Handbook of Industrial Textiles Sabit Adanur 2017-11-22 The Wellington Sears Handbook of Industrial Textiles has been a widely used textile industry reference for more than 50 years. Now a completely updated new edition has been published. It was prepared by a team of industrial textile specialists at Auburn University to provide both technical and management personnel with a comprehensive resource on the current technology and applications of today's industrial textiles. All aspects of industrial textiles are covered: man-made and natural materials, manufacturing and finishing methods, and all applications. There are also sections on properties, testing, waste management, computers and automation, and standards and regulations. The appendices provide extensive reference data: properties, specifications, manufacturers and trade names, mathematical equations and measurement units. The text is organized for easy reference, and well illustrated with hundreds of schematics and photographs.

Food Biosynthesis Alexandru Mihai Grumezescu 2017-06-19 Food Biosynthesis, Volume One in the Handbook of Food Bioengineering series, describes the main aspects related to the biological production of synthetic ingredients and natural foods, highlighting the impact of bacteria and plants in the biosynthesis of key food components. Biosynthesis methods could help solve issues like food shortages, providing consumers with preferred 'natural' food options. This book represents how biologically synthesized ingredients, such as vanilla flavoring, soy, milk and egg substitutes can be utilized as a desired option future foods. It is ideal for scientists and researchers who want to improve their knowledge on the field of food biosynthesis. Presents practical approaches of biosynthesis and the impact of biological origin on the field of food engineering Offers alternative applications to produce natural foods Includes processes and techniques to produce health promoting foods Discusses the positive effects of biosynthesis on microbial production to enhance food safety Offers a variety of perspectives on biosynthesis and its benefits for food ingredient production

Plant Growth Regulators Tariq Aftab 2021 Agriculture faces many challenges to fulfil the growing demand for sustainable

food production and ensure high-quality nutrition for a rapidly growing population. To guarantee adequate food production, it is necessary to increase the yield per area of arable land. A method for achieving this goal has been the application of growth regulators to modulate plant growth. Plant growth regulators (PGRs) are substances in specific formulations which, when applied to plants or seeds, have the capacity to promote, inhibit, or modify physiological traits, development and/or stress responses. They maintain proper balance between source and sink for enhancing crop yield. PGRs are used to maximize productivity and quality, improve consistency in production, and overcome genetic and abiotic limitations to plant productivity. Suitable PGRs include hormones such as cytokinins and auxins, and hormone-like compounds such as mepiquat chloride and paclobutrazol. The use of PGRs in mainstream agriculture has steadily increased within the last 20 years as their benefits have become better understood by growers. Unfortunately, the growth of the PGR market may be constrained by a lack of innovation at a time when an increase in demand for new products will require steady innovation and discovery of novel, cost-competitive, specific, and effective PGRs. A plant bio-stimulant is any substance or microorganism applied to plants with the aim to enhance nutrition efficiency, abiotic stress tolerance and/or crop quality traits, regardless of its nutrients content. Apart from traditional PGRs, which are mostly plant hormones, there are a number of substances/molecules such as nitric oxide, methyl jasmonate, brassinosteroids, seaweed extracts, strigolactones, plant growth promoting rhizobacteria etc. which act as PGRs. These novel PGRs or bio-stimulants have been reported to play important roles in stress responses and adaptation. They can protect plants against various stresses, including water deficit, chilling and high temperatures, salinity and flooding. This book includes chapters ranging from sensing and signalling in plants to translational research. In addition, the cross-talk operative in plants in response to varied signals of biotic and abiotic nature is also presented. Ultimately the objective of this book is to present the current scenario and the future plan of action for the management of stresses through traditional as well as novel PGRs. We believe that this book will initiate and introduce readers to state-of-the-art developments and trends in this field of study.

Handbook of Technical Textiles A. Richard Horrocks 2015-12-01 The second edition of Handbook of Technical Textiles, Volume 1: Technical Textile Processes provides readers with a comprehensive understanding of the latest advancements in technical textiles. With revised and updated coverage, including several new chapters, this volume reviews recent developments and technologies in the field, beginning with an overview of the technical textiles industry that includes coverage of technical fibers and yarns, weaving, spinning, knitting, and nonwoven production. Subsequent sections include discussions on finishing, coating, and the coloration of technical textiles. Provides a comprehensive handbook for all aspects of technical textiles Presents updated, detailed coverage of processes, fabric structure, and applications An ideal resource for those interested in high-performance textiles, textile processes, textile processing, and textile applications Contains contributions from many of the original, recognized experts from the first edition who update their respective chapters