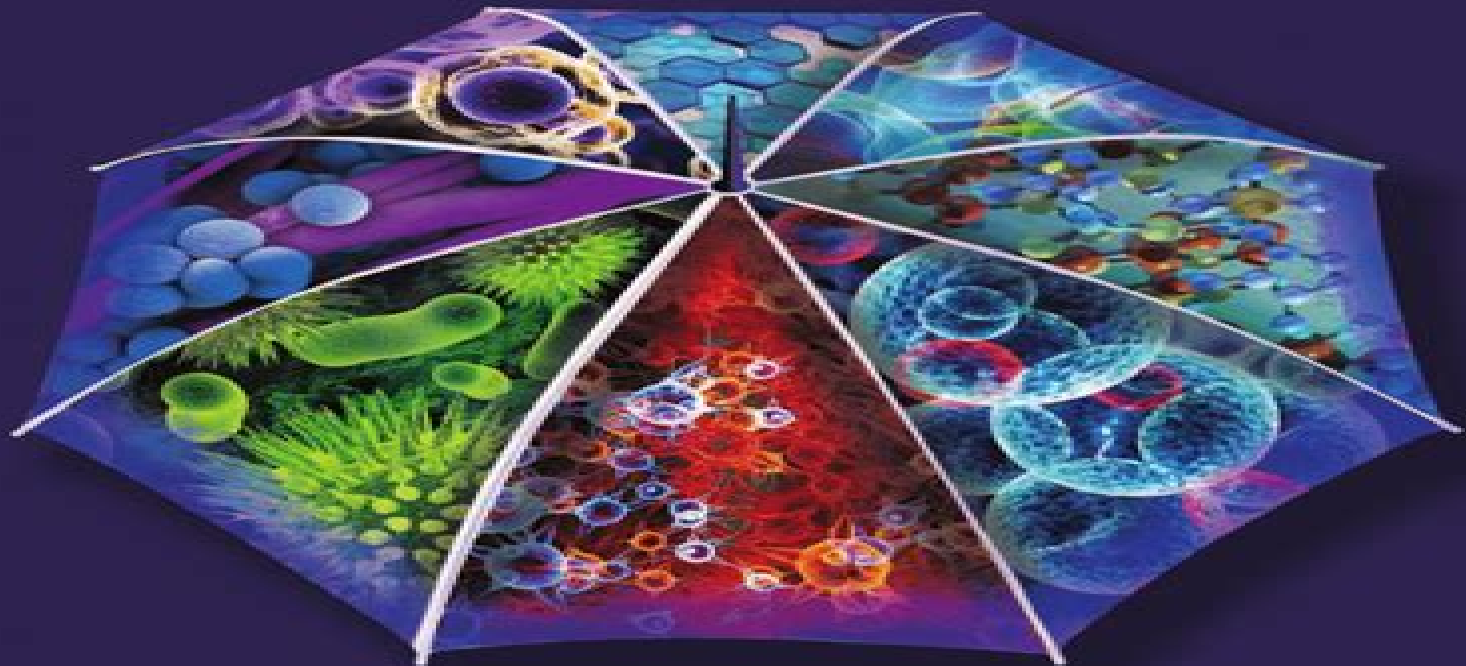


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Omics Applications In Biomedical Agricultural And Environmental Sciences

Se-Kwon Kim



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Information Resources in Toxicology, Volume 1: Background, Resources, and Tools, 2020-05-16 This new fifth edition of *Information Resources in Toxicology* offers a consolidated entry portal for the study research and practice of toxicology Both

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Marine OMICS Se-Kwon Kim,2016-11-18 This book provides comprehensive coverage on current trends in marine omics of various relevant topics such as genomics lipidomics proteomics foodomics transcriptomics metabolomics nutrigenomics pharmacogenomics and toxicogenomics as related to and applied to marine biotechnology molecular biology marine biology marine microbiology environmental biotechnology environmental science aquaculture pharmaceutical science and bioprocess engineering

Omics Technologies and Bio-engineering Debmalya Barh,Vasco Ariston De Car Azevedo,2018-02-28 Omics Technologies

and Bio Engineering Towards Improving Quality of Life Volume 2 is a unique reference that brings together multiple perspectives on omics research providing in depth analysis and insights from an international team of authors The book delivers pivotal information that will inform and improve medical and biological research by helping readers gain more direct access to analytic data an increased understanding on data evaluation and a comprehensive picture on how to use omics data in molecular biology biotechnology and human health care Covers various aspects of biotechnology and bio engineering using omics technologies Focuses on the latest developments in the field including biofuel technologies Provides key insights into omics approaches in personalized and precision medicine Provides a complete picture on how one can utilize omics data in molecular biology biotechnology and human health care

Vibrational Spectroscopy for Plant Varieties and Cultivars Characterization, 2018-04-30 Vibrational Spectroscopy for Plant Varieties and Cultivars Characterization Volume 80 provides an overview on the application of vibrational spectroscopy to characterize plant cultivars and varieties It covers a variety of aspects including the potential of this technique for taxonomic purposes species and cultivars varieties identification how to discriminate plants according to their ages and geographic regions how to depict soil properties through plant characteristics etc Currently most of these studies are performed through somewhat laborious techniques This book presents reliable alternatives to such techniques while also systematizing information concerning the application of vibration spectroscopy in this context Guides academics through the application of vibrational spectroscopy Presents a valuable source of information for plant producers

Cancer Biomarkers Debmalya Barh, Angelo Carpi, Mukesh Verma, Mehmet Gunduz, 2014-01-30 Gleaning information from more than 100 experts in the field of cancer diagnosis prognosis and therapy worldwide Cancer Biomarkers Non Invasive Early Diagnosis and Prognosis determines the significance of clinical validation approaches for several markers This book examines the use of noninvasive or minimally invasive molecular cancer m

Omics in Horticultural Crops Gyana Ranjan Rout, K.V. Peter, 2022-07-16 Omics in Horticulture Crops presents a comprehensive view of germplasm diversity genetic evolution genomics proteomics and transcriptomics of fruit crops temperate tropical and subtropical fruits fruit nuts berries vegetables tuberous crops ornamental and floricultural crops and medicinal aromatic plants Information covering phenomics genetic diversity phylogenetic studies genome sequencing and genome barcoding through the utilization of molecular markers plays an imperative role in the characterization and effective utilization of diverse germplasm are included in the book This is a valuable reference for researchers and academics seeking to improve cultivar productivity through enhanced genetic diversity while also retaining optimal traits and protecting the growing environment Highlights perspectives progress and promises of omics application Provides a systematic overview of origin progenitor and domestication process as well as genetic insights Includes full range of horticultural crops

Applications of Environmental Biotechnology for Global Sustainability Dr. Korla Swapnavahini, Dr. P. Mahalakshmi, Dr. S. Carmel Punitha, Dr. D. Jayarajan, and Dr. Sunanda Shashikant Aswale, 2023-02-03 Editors Dr Korla Swapnavahini Dr P

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Handbook of Algal Science Microbiology Technology and Medicine provides a concise introduction to the science biology technology and medical use of algae that is structured on the major research fronts of the last four decades such as algal structures and properties algal biomedicine algal genomics algal toxicology and algal bioremediation algal photosystems algal ecology algal bioenergy and biofuels It also covers algal production for biomedicine algal biomaterials and algal medicinal foods within these primary sections All chapters are authored by the leading researchers in their respective research fields Our society currently faces insurmountable challenges in the areas of biomedicine and energy in the face of increasing global population and diminishing natural resources as well as the growing environmental and economic concerns such as global warming greenhouse gas emissions and climate change Algae offer a way to deal with these challenges and concerns for both sustainable and environment friendly bioenergy production and in biomedicine through the development of crucial biotechnology Provides an essential interdisciplinary introduction and handbook for all the stakeholders engaged in science technology and medicine of algae Covers the major research streams of the last four decades ranging from algal structures to algal biomedicine and algal bioremediation Fills a significant market opening for an interdisciplinary handbook on algal science technology and medicine **Postharvest Physiology and Biochemistry of Fruits and Vegetables**

Elhadi M. Yahia,Armando Carrillo-Lopez,2018-10-31 Postharvest Physiology and Biochemistry of Fruits and Vegetables presents an updated interrelated and sequenced view of the contribution of fruits and vegetables on human health their aspects of plant metabolism physical and chemical compositional changes during the entire fruit development lifecycle the physiological disorders and biochemical effects of modified controlled atmospheres and the biotechnology of horticultural crops The book is written specifically for those interested in preharvest and postharvest crop science and the impact of physiological and biochemical changes on their roles as functional foods Deals with the developmental aspects of the lifecycle in whole fruits Describes issues such as the morphology and anatomy of fruits beginning with the structural organization of the whole plant and explaining the fruit structure and its botanical classification Addresses biotechnological concepts that control firmness quality and the nutritional value of fruits **Marine Bioenergy** Se-Kwon Kim,Choul-Gyun Lee,2015-05-21

Marine Bioenergy Trends and Developments features the latest findings of leading scientists from around the world

Addressing the key aspects of marine bioenergy this state of the art text Offers an introduction to marine bioenergyExplores marine algae as a source of bioenergyDescribes biotechnological techniques for biofuel productionExplains th Microbial Biotechnology Farshad Darvishi Harzevili,Hongzhang Chen,2018-10-08 Incorporates the Experiences of World Class Researchers Microbial Biotechnology Progress and Trends offers a theoretical take on topics that relate to microbial biotechnology The text uses the novel experimental experiences of various contributors from around the world designed as case studies to highlight relevant topics issues and recent developments surrounding this highly interdisciplinary field It factors in metagenomics and microbial biofuels production and incorporates major contributions from a wide range of disciplines that include microbiology biochemistry genetics molecular biology chemistry biochemical engineering and bioprocess engineering In addition it also provides a variety of photos diagrams and tables to help illustrate the material The book consists of 15 chapters and contains subject matter that addresses Microbial biotechnology from its historical roots to its different processes Some of the new developments in upstream processes Solid state fermentation as an interesting field in modern fermentation processes Recent developments in the production of valuable microbial products such as biofuels organic acids amino acids probiotics healthcare products and edible biomass Important microbial activities such as biofertilizer biocontrol biodegradation and bioremediation Students scientists and researchers can benefit from Microbial Biotechnology Progress and Trends a resource that addresses biotechnology applied microbiology bioprocess fermentation technology healthcare pharmaceutical products food innovations food processing plant agriculture crop improvement energy and environment management and all disciplines related to microbial biotechnology *Environmental Stress Physiology of Plants and Crop Productivity* Tajinder Kaur,Saroj Arora,2021-05-06 The knowledge of plant responses to various abiotic stresses is crucial to understand their underlying mechanisms as well as the methods to develop new varieties of crops which are better suited to the environment they are grown in Environmental Stress Physiology of Plants and Crop Productivity provides readers a timely update on the knowledge about plant responses to a variety of stresses such as salinity temperature drought oxidative stress and mineral deficiencies Chapters focus on biochemical mechanisms identified in plants crucial to adapting to specific abiotic stressors along with the methods of improving plant tolerance The book also sheds light on plant secondary metabolites such as phenylpropanoids and plant growth regulators in ameliorating the stressful conditions in plants Additional chapters present an overview of applications of genomics proteomics and metabolomics including CRISPR CAS techniques to develop abiotic stress tolerant crops The editors have also provided detailed references for extended reading to support the information in the book Environmental Stress Physiology of Plants and Crop Productivity is an informative reference for scholars and researchers working in the field of botany agriculture crop science and physiology soil science and environmental sciences *Biodiesel* Meisam Tabatabaei,Mortaza Aghbashlo,2018-11-02 This book presents in depth information on the state of the art of global biodiesel production and investigates its impact on

climate change Subsequently it comprehensively discusses biodiesel production in terms of production systems reactor technologies as well as biodiesel purification and upgrading technologies Moreover the book reviews essential parameters in biodiesel production systems as well as major principles of operation process control and trouble shooting in these systems Conventional and emerging applications of biodiesel by products with a view to further economize biodiesel production are also scrutinized Separate chapters are dedicated to economic risk analysis and critical comparison of biodiesel production systems as well as techno economical aspects of biodiesel plants The book also thoroughly investigates the important aspects of biodiesel production and combustion by taking advantage of advanced sustainability analysis tools including life cycle assessment LCA and exergy techniques In closing the application of Omics technologies in biodiesel production is presented and discussed This book is relevant to anyone with an interest in renewable more sustainable fuel and energy solutions

Genomics Assisted Breeding of Crops for Abiotic Stress Tolerance, Vol. II Vijay Rani Rajpal, Deepmala Sehgal, Avinash Kumar, S.N. Raina, 2019-07-01 The abiotic stresses like drought temperature cold salinity heavy metals etc affect a great deal on the yield performance of the agricultural crops To cope up with these challenges plant breeding programs world wide are focussing on the development of stress tolerant varieties in all crop species Significant genomic advances have been made for abiotic stress tolerance in various crop species in terms of availability of molecular markers QTL mapping genome wide association studies GWAS genomic selection GS strategies and transcriptome profiling The broad range of articles involving genomics and breeding approaches deepens our existing knowledge about complex traits The chapters are written by authorities in their respective fields This book provides comprehensive and consolidated account on the applications of the most recent findings and the progress made in genomics assisted breeding for tolerance to abiotic stresses in many important major crop species with a focus on applications of modern strategies for sustainable agriculture The book is especially intended for students molecular breeders and scientists working on the genomics assisted genetic improvement of crop species for abiotic stress tolerance

Microbial Metabolomics David J. Beale, Konstantinos A. Kouremenos, Enzo A. Palombo, 2016-12-05 This book brings together contributions from global experts who have helped to facilitate the exciting and rapid advances that are taking place in microbial metabolomics The main application of this field is in clinical and veterinary microbiology but there is a great potential to apply metabolomics to help to better understand complex biological systems that are dominated by multiple species microbial populations exposed to changing growth and nutritional conditions In particular environmental e g water soil food e g microbial spoilage food pathogens and agricultural and industrial applications are seen as developing areas for microbial metabolomics As such the book includes contributions with clinical environmental and industrial perspectives

Plant Bioinformatics Khalid Rehman Hakeem, Adeel Malik, Fazilet Vardar-Sukan, Munir Ozturk, 2017-11-21 This book i introduces fundamental and applied bioinformatics research in the field of plant life sciences ii enlightens the potential users towards the recent advances in the development and application of

novel computational methods available for the analysis and integration of plant omics data iii highlights relevant databases softwares tools and web resources developed till date to make ease of access for researchers working to decipher plant responses towards stresses and iv presents a critical cross talks on the available high throughput data in plant research Therefore in addition to being a reference for the professional researchers it is also of great interest to students and their professors Considering immense significance of plants for all lives on Earth the major focus of research in plant biology has been to a select plants that best fit the purposes of human b develop crop plants superior in quality quantity and farming practices when compared to natural wild plants and c explore strategies to help plants to adapt biotic and abiotic environmental stress factors Accordingly the development of novel techniques and their applications have increased significantly in recent years In particular large amount of biological data have emerged from multi omics approaches aimed at addressing numerous aspects of the plant systems under biotic or abiotic stresses However even though the field is evolving at a rapid pace information on the cross talks and or critical digestion of research outcomes in the context of plant bioinformatics is scarce Plant Bioinformatics Decoding the Phyta is aimed to bridge this gap

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