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Biochemical Methods

Biochemical Methods New Age International
Biochemical Methods Are Used In All Branches Of Biological Sciences And Agriculture Is No Exception. Research In Various Branches Of Agriculture Viz. Plant Physiology, Plant Pathology, Agricultural Microbiology Seed Technology Plant Genetics And Entomology Requires One Or The Other Biochemical Methods. A Researcher Has To Refer Many Journals And Books Before He Could Get To The Right Procedure For His Experiment. This Book On Biochemical Methods Attempts To Give Often Used Methods In A Single VolumeThe Book, Divided Into 13 Chapters Contains 115 Procedures. The Chapters Are Carbohydrates, Lipids, Proteins, Nucleic Acids, Vitamins, Enzymes, Nitrogen Fixation Antinutritional Factors, Plant Hormones, Pigments, Phenols Cell Fractionation And Separation Techniques. Each Procedure Is Divided Into Introduction, Principle, Materials, Procedure And Calculation. At The End Of Each Procedure References For Additional Reading Are Provided. Important Precautions, Warnings And Tips Are Given In The Notes Section.The Methods Elaborated In The Book Will Be Useful For Conducting Practical Classes At The Undergraduate And Postgraduate Levels In Science Colleges And Universities. This Manual Will Be A Bonanza For The Research Workers In Plant Sciences Since It Includes Procedures From The Classical Microkjeldahl Nitrogen Estimation To The Modern Southern Blotting Technique.

Biochemical Methods For Agricultural Sciences

Pharmacological Assays of Plant-Based Natural Products Springer
This volume provides information on how to select and screen plants for their medicinal properties. It describes phytopharmacological techniques for extracting and qualitatively and quantitatively analyzing a plant’s phytochemicals. After a detailed in vitro investigation including nutritional and anti-nutritional analyses, medicinal properties were tested with various in vivo models for anti-inflammatory, analgesic, anti-pyretic, anticancer and anti-diabetic properties, as well as wound healing, neurodegenerative diseases, etc. Compound identification and purification techniques include, among others, TLC and column chromatography, as well as molecular docking with specific proteins.

Molecular Host Plant Resistance to Pests CRC Press
Molecular Host Plant Resistance to Pests examines environmentally safe and integrated techniques for effective pest management. Offering more than 1500 references for further exploration of the topic, this reference details the bioactivity, biosynthetic pathways, mechanisms of action, and genetic regulation for improved methods of crop protection a

Experimental Biochemistry I. K. International Pvt Ltd
A Student Companion is a purpose-oriented, practical laboratory manual for students pursuing biochemistry as a subject module at various universities. This book presents a concise account of biochemical experiments based on a concept-oriented approach. An important intent in designing this book is to fortify the students' ability to perform an experiment in the laboratory. The coverage of the subject area includes complete experimental procedures and workouts in the qualitative & quantitative biochemical analysis, enzymology, biochemical separation techniques, biochemical preparations, clinical biochemistry, immunoanalytical techniques and food biochemistry. Due emphasis has been given to laboratory safety & hygiene. This book will be of interest to a wide audience ranging from students & instructors to researchers in the field.

Sustainable Insect Pest Management Alpha Science Int'l Ltd.
Overexploitation of natural resources and excessive chemicalization of agriculture have led to poor sustainability of farm production. Indiscriminate use of agricultural chemicals has resulted in problems of pest resurgence and development of resistance on the one hand and has posed serious problems of environmental contamination through residues in food chain on the other hand. The importance of achieving food production through the use of ecofriendly sustainable pest management techniques is being realized more and more in the recent past. Eminent scientists from different research institutions have looked into this aspect seriously and have come up with many enlightening suggestions compiled together in this book.

Introductory Practical Biochemistry Alpha Science Int'l Ltd.
Introductory Practical Biochemistry, designed to cater to the requirements of students of biochemistry, microbiology, molecular biology, cellular biology etc. covers modern techniques employed for qualitative and quantitative analysis of biomolecules. The techniques for genetic transformation etc., have been included to give preliminary information to the beginners in the field of genetic engineering. Radioisotopic and immunological techniques also find a place in the book. Each chapter starts with introductory details of the techniques followed by simple laboratory exercises. The book provides concise information on theoretical and practical aspects of the techniques employed in biochemical studies for the Undergraduate and Postgraduate students, Instructors and Research workers.

Plant and Human Health, Volume 2 Springer
Early anthropological evidence for plant use as medicine is 60,000 years old as reported from the Neanderthal grave in Iraq. The importance of plants as medicine is further supported by archeological evidence from Asia and the Middle East. Today, around 1.4 billion people in South Asia alone have no access to modern health care, and rely instead on traditional medicine to alleviate various symptoms. On a global basis, approximately 50 to 80 thousand plant species are used either natively or as pharmaceutical derivatives for life-threatening conditions that include diabetes, hypertension and cancers. As the demand for plant-based medicine rises, there is an unmet need to investigate the quality, safety and efficacy of these herbals by the “scientific methods”. Current research on drug discovery from medicinal plants involves a multifaceted approach combining botanical, phytochemical, analytical, and molecular techniques. For instance, high throughput robotic screens have been developed by industry; it is now possible to carry out 50,000 tests per day in the search for compounds which act on a key enzyme or a subset of receptors. This and other bioassays thus offer hope that one may eventually identify

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compounds for treating a variety of diseases or conditions. However, drug development from natural products is not without its problems. Frequent challenges encountered include the procurement of raw materials, the selection and implementation of appropriate high-throughput bioassays, and the scaling-up of preparative procedures. Research scientists should therefore arm themselves with the right tools and knowledge in order to harness the vast potentials of plant-based therapeutics. The main objective of Plant and Human Health is to serve as a comprehensive guide for this endeavor. Volume 1 highlights how humans from specific areas or cultures use indigenous plants. Despite technological developments, herbal drugs still occupy a preferential place in a majority of the population in the third world and have slowly taken roots as alternative medicine in the West. The integration of modern science with traditional uses of herbal drugs is important for our understanding of this ethnobotanical relationship. Volume 2 deals with the phytochemical and molecular characterization of herbal medicine. Specifically, It will focus on the secondary metabolic compounds which afford protection against diseases. Lastly, Volume 3 focuses on the physiological mechanisms by which the active ingredients of medicinal plants serve to improve human health. Together this three-volume collection intends to bridge the gap for herbalists, traditional and modern medical practitioners, and students and researchers in botany and horticulture.

Natural Product Experiments in Drug Discovery Springer Nature
This detailed volume explores a wide range of evidence-based complementary medicine and various bio-analytical techniques used to define botanical products. Collecting recent work and current developments in the field of contemporary phytomedicine as well as their future possibilities in human health care, the book includes unique contributions in the form of chapters on phytomedicine and screening biological activities explained with diverse hyphenated techniques, as well as issues related to herbal medications, such as efficacy, adulteration, safety, toxicity, regulations, and drug delivery. Written for the Springer Protocols Handbooks series, chapters feature advice from experts on how to best conduct future experiments. Extensive and practical, Natural Product Experiments in Drug Discovery serves as an ideal reference for students, professors, and researchers in universities, R&D institutes, pharmaceutical and herbal enterprises, and health organizations.

Microbiological Research In Agroecosystem Management Springer Science & Business Media
Agroecosystem is an ideal dynamic functional system with a set of chemical and biological interaction taking place in plant surface either below or above the ground levels. These levels of interaction activities fundamentally with microorganism-plant-soil systems are extended upto the level of entire agricultural economy. Greatly simplified, the agroecosystems control the various range of energy flux, resources exchange, organic and inorganic nutrient budgets and population dynamics. The main aim of this edited volume is to provide a broad spectrum of agroecosystems structure, function and maintenance involved in microbial research. This book consists of 20 full length research articles focusing on the emerging problems in the field and the positive findings are identified on key areas of research such as biodiversity, ecosystem service, environmental cleaning in agroecology, etc. These articles are arranged progressively linking themselves thematically with photographs, figures and tables. Focused field articles are included which prove a valuable contribution to the field of agroecosystem management by microbial facilitations. The editor hopes that these articles would prompt the budding scholars to further their research which in turn would certainly help the agriculturists.

Assessment of Medicinal Plants for Human Health CRC Press
This volume looks at the importance of medicinal plants and their potential benefits for human health, providing insight with scientific evidence on the use of functional foods in the treatment and management of certain diseases. Divided into four sections, the volume covers the assessment and identification of medicinal plants, the role of medicinal plants in disease management, the ethnobotany and phytochemistry of medicinal plants, and novel applications of plants. Assessment of Medicinal Plants for Human Health: Phytochemistry, Disease Management, and Novel Applications sheds light on the potential of certain plants and will be of value to faculty and advanced-level students of natural products, food science, pharmacognosy, pharmacology, and biochemistry. It will also be of interest to researchers in the area of drug discovery and development.

Seed Dormancy and Germination BoD – Books on Demand
Seed dormancy and germination are critical processes for the development of plants. Seed dormancy allows seeds to overcome harsh periods of seedling establishment, and is also important for plant agriculture and crop yield. Several processes are involved in the induction of dormancy and in the shift from the dormant to the germinating state, and hormones and regulatory genetic networks are among the critical factors driving these complex processes. Germination can be prevented by different factors leading to seed dormancy, which is highly dependent on environmental cues. During and after germination, early seedling growth is sustained by catabolism of stored reserves (proteins, lipids, or starch) accumulated during seed maturation, supporting cell morphogenesis, chloroplast development, and root growth until photo-auxotrophic growth can be resumed.

Laboratory Manual In Microbiology New Age International
This Manual Is Intended To The Undergraduate And Post-Graduate Students In Microbiology As Well As Botany And Zoology In Which Microbiology Is Being Taught As Ancillary Subject. This Manual Explains Exercises In Simple Terms With Sufficient Background And Principle Of The Experiments. Illustrations Are Provided Along With The Protocols For Effective Understanding The Experiments. This Manual Deals With The Experiments In Basic Microbiology, Microbial Physiology Metabolism, Soil, Agricultural, Water And Medical Microbiology. It Is Expected That Beginners And Graduate Students In Microbiology Will Be Benefited From This Manual.

Advanced Computing and Communication Technologies Springer
This book highlights a collection of high-quality peer-reviewed research papers presented at the Ninth International Conference on Advanced Computing & Communication Technologies (ICACCT-2015) held at Asia Pacific Institute of Information Technology, Panipat, India during 27–29 November 2015. The book discusses a wide variety of industrial, engineering and scientific applications of the emerging techniques. Researchers from academia and industry present their original work and exchange ideas, information, techniques and applications in the field of Advanced Computing and Communication Technology.

Instrumental Methods in Food Analysis Elsevier
Instrumental Methods in Food Analysis is aimed at graduate students in the science, technology and engineering of food and nutrition who have completed an advanced course in food analysis. The book is designed to fit in with one or more such courses, as it covers the whole range of methods applied to food analysis, including chromatographic techniques (HPLC and GC), spectroscopic techniques (AA and ICP),

electroanalytical and electrophoresis techniques. No analysis can be made without appropriate sample preparation and in view of the present economic climate, the search for new ways to prepare samples is becoming increasingly important. Guided by the need for environmentally-friendly technologies, the editors chose two, relatively new techniques, the microwave-assisted processes (MAPTM (Chapter 10) and supercritical fluid extraction (Chapter 11). Features of this book: - is one the few academic books on food analysis specifically designed for a one semester or one year course -it contains updated information - the coverage gives a good balance between theory, and applications of techniques to various food commodities. The chapters are divided into two distinct sections: the first is a description of the basic theory regarding the technique and the second is dedicated to a description of examples to which the reader can relate in his/her daily work.

Heavy Metals BoD – Books on Demand
Fundamental societal changes resulted from the necessity of people to get organized in mining, transporting, processing, and circulating the heavy metals and their follow-up products, which in consequence resulted in a differentiation of society into diversified professions and even societal strata. Heavy metals are highly demanded technological materials, which drive welfare and progress of the human society, and often play essential metabolic roles. However, their eminent toxicity challenges the field of chemistry, physics, engineering, cleaner production, electronics, metabolomics, botany, biotechnology, and microbiology in an interdisciplinary and cross-sectorial manner. Today, all these scientific disciplines are called to dedicate their efforts in a synergistic way to avoid exposure of heavy metals into the eco- and biosphere, to reliably monitor and quantify heavy metal contamination, and to foster the development of novel strategies to remediate damage caused by heavy metals.

An Introduction to Mushroom BoD – Books on Demand
The mushroom has a wide number of medicinal properties such as being an antioxidant, antimicrobial, anticancer, antidiabetic, immune enhancer, and also used for the treatment of various diseases such as anthelmintic, anti-inflammatory, antipyretics, etc. According to current information, there are approximately twelve-thousand species in the world, and out of them, 2000 species are reported as being edible. Around 35 edible mushroom varieties are cultivated commercially, whereas almost 200 wild species could be used for medicinal purposes. This book also covers the diversity of edible mushrooms and describes several applications as an alternative source for food production and clinical approach. This book includes: • the diverse types of mushroom and their enzymatic activity • importance of nutritional properties along with their food product development • industrial and clinical applications of macro fungi, i.e., degradation of dyes, anticancer, antimicrobial, antioxidant, etc.

Practical Handbook on Agricultural Microbiology Humana
This volume details techniques involved in the study of beneficial microbes in agricultural microbiology towards enhancing global agricultural productivity. Chapters cover a wide range of basic and advanced techniques associated with research on isolation of agriculturally important microbes, identification, biological nitrogen fixation, microbe mediated plant nutrient use efficiency, biological control of plant diseases and pests. Authoritative and cutting-edge, Practical Handbook on Agricultural Microbiology aims to be a useful practical guide to researches to help further their study in this field.

The Moringa Genome Springer Nature
This book provides updated and all-inclusive data and evidences for Moringa botany, cytogenetical analysis, genetic resources and diversity, classical genetics, traditional breeding, tissue culture, genetic transformation, whole-genome sequencing, comparative genomics and elucidation on applications of functional genomics, nanotechnology, bioinformatics, processing and value addition besides providing perspectives of medicinal and therapeutic properties of Moringa. Moringa gained global attention in the recent past owing to its unique blend of affordable nutraceutical and pharmaceutical compounds in all parts of the plants. Scientific literatures supporting its health benefits besides the studies on its utility in various fields are scattered on several reports. This book is written by renowned global subject experts by compiling and narrating it in a sober style.

Advances in Waste Management Springer
This book presents some of the latest technologies in waste management, and emphasizes the benefits that can be gained from the use of recycled products. Divided into four sections, it deals with phytoremediation, acquatic weed management and the treatment of solid- and water-based wastes, such as those arising from agricultural, industrial and medical activities. With its special emphasis on the utilization of recycled products, this volume will be of interest to students, academicians, policy makers and others who have a practical and academic interest in dealing with the waste society generates.

Fungi and their Role in Sustainable Development: Current Perspectives Springer
This book illustrates the multiple roles of fungi in everyday life. Fungi are the large group of organisms with tremendous diversity and economic importance. Their ability to produce commercially efficient useful products makes them the vulnerable sustainable tool for the future generation. This book describes a systems approach and provides a means to share the latest developments and advances about the benefits of fungi including their wide application, traditional uses, modern practices, along with designing of strategies to harness their potential. The chapters are organized with data, providing information related to different sustainable aspects of fungi in agriculture, its cultivation and conservation strategies, industrial and environmental utilization, advanced bioconversion technologies and modern biotechnological interventions. Updated information and current opinion related to its application for sustainable agriculture, environment, and industries as futuristic tools have been presented and discussed in different chapters. The book also elucidates a comprehensive yet a representative description of the challenges associated with the sustained application of fungi to achieve the goals of sustainability.

Profiling bioactive compounds and nutrients in jackfruit (artocarpus heterophyllus lam.) And developing a jackfruit based textured vegetable protein. Archers & Elevators Publishing House

Response of Cyanobacteria to Herbicides: A Biochemical and Molecular Approach Google Book Publishers
Cyanobacteria, formerly called blue-green algae, are the most primitive form of algae under plant kingdom. These are called blue-green algae because they contain the photosynthetic pigments-phycocyanin (dominant pigment), phycoerythryin and chlorophyll a, which are responsible for their characteristic blue-green colour. They are known by different names such as, Blue-Green Algae or Cyanobacteria, Schizobacteria or Myxobacteria, Myxophyceae and Cyanophyceae. These are the first plant forms, which got the power of chlorophyll in

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their thylakoids and started the life supporting process of photosynthesis on the earth. Inoculation of crop plants with nitrogen fixing microbes (in the form of biofertilizers) has become an accepted biotechnology in US, Germany, Brazil, Israel, Egypt, China, India and some other parts of the world also. The paddy field ecosystem provides a favorable environment for the growth of cyanobacteria (blue green algae) with respect to their requirements for light, water, high temperature, and nutrient availability. Cyanobacteria produce and secrete a variety of biological substances such as auxins (Indole Acetic Acid, Indole Butyric Acid, Naphthalene Acetic Acid), gibberellins (GA1 to GA3) and vitamins, which promote the crop growth. Cyanobacteria can also reduce the oxidizable matter of the soil, remove soil compaction, narrow the C:N ratio and facilitate the aeration in the rhizosphere zone. Environmental stresses influence a plethora of physiological activities in living organisms. Cellular adaptation to environmental stress is the major process that protects organism from deleterious effects of various stresses like pesticide, salt, temperature, heavy metals etc. Being cosmopolitan in distribution, cyanobacteria are thought to have been exposed to different levels and types of stressors during their development, thus providing a suitable system for analyzing the adaptive mechanisms developed in response to changing stress conditions. Looking into the enormous potentiality of cyabobacteria, the authors have presented their intensive investigation in the form of a book Response of Cyanobacteria to Herbicides: A Biochemical and Molecular Approach to explore morphological changes such as color of the cells, cell shape and heterocyst frequency of herbicide-treated cyanobacterial species such as Anabaena fertilissima Rao, Aulosira fertilissima Ghose and Westiellopsis prolifica Janet., variations in pigment contents like chlorophyll a, total carotenoids, phycobilin pigments - phycocyanin, phycoerythrin and allophycocyanin of herbicide-treated cyanobacterial species, response of metabolites like carbohydrates, amino acids, proteins, phenols and activity of enzymes like nitrate reductase, glutamine synthatase and succinate dehydrogenase of herbicide-treated cyanobacterial species, functional group variation and detoxicants of herbicide-treated cyanobacterial species, protein profiling by Soduim Dodecyl Sulfate - Polyacrylamide Gel Electrophoresis (SDS-PAGE), genomic DNA profiling by Random Amplified Polymorphic DNA (RAPD), and molecular characterization by 16S rDNA amplification of all three selected species of cyanobacteria. The present book would be helpful in enriching the knowledge of readers about herbicidal toxicology, biochemical response, and molecular aspects of cyanobacteria at lab scale as well as field studies.

Geobiotechnology II Springer
This book review series presents current trends in modern biotechnology. The aim is to cover all aspects of this interdisciplinary technology where knowledge, methods and expertise are required from chemistry, biochemistry, microbiology, genetics, chemical engineering and computer science. Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3-5 years. The series also discusses new discoveries and applications. Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification. In general, special volumes are edited by well-known guest editors. The series editor and publisher will however always be pleased to receive suggestions and supplementary information. Manuscripts are accepted in English.

Sustainable Agriculture in the Era of Climate Change Springer Nature
Under ongoing climate changes, natural and cultivated habitats of major crops are being continuously disturbed. Such conditions impose and exacerbate abiotic and biotic stressors. Drought, salinity, flood, cold, heat, heavy metals, metalloids, oxidants, irradiation, etc. are important abiotic stressors, while diseases and infections caused by plant pathogens, such as fungal agents, bacteria and viruses, are major biotic stresses. In many instances, stresses have become the major limiting factor for agricultural productivity and exert detrimental role on growth and yield of the crops. To help feed an ever increasing world population and to ensure global food security, concerted efforts from scientists and researchers have identified strategies to manage and mitigate the impacts of climate-induced stresses. This book, summarizing their findings, is aimed at crop improvement beyond such kind of barriers, by agronomic practices (genetics, breeding, phenotyping, etc.) and biotechnological applications, including molecular markers, QTL mapping, genetic engineering, transgenesis, tissue culture, various 'omics' technologies and gene editing. It will cover a wide range of topics under environmental challenges, agronomy and agriculture processes, and biotechnological approaches. Additionally, fundamental mechanisms and applied information on stress responses and tolerance will be discussed. This book highlights problems and offers proper solutions for crop stress management with recent information and up-to-date citations. We believe this book is suitable for scientists, researchers and students working in the fields of agriculture, plant science, environmental biology and biotechnology.

Wetland Monitoring: A Practical Approach towards Eutrophication Google Book Publishers
Wetlands occur expansively all over the world in all the climatic zones, exhibit enormous diversity according to their genesis, geographical location, water regime and chemistry, dominant plants and sediment characters; providing food, fiber and raw materials, storm and flood control, clean water supply, scenic beauty and educational and recreational benefits. Besides, biotic-abiotic components and human inhabitants, the subsistence of these unique natural resources is under intimidation due to developmental activities, population pressure and anthropogenic stress; calls for a long term planning for preservation and conservation of these resources. The present book “Wetland Monitoring: A Practical Approach towards Eutrophication” focuses on abiotic components (hydrochemistry and geochemistry), biotic components (phytoplankton, zooplankton, aquatic macrophytes), biochemical profiling, degree of eutrophication, delineation of trophodynamics, metal accumulation, concentration, transport, and mobility of metals, and environmental modeling of significant wetlands of Central Gujarat, India. This book would certainly be useful and handy tool for students, academicians, researchers, scientists, practitioners and wetland managers at regional, national and global scale.

Teaching Science in Culturally Relevant Ways World Scientific
This book encapsulates the vision of Singapore science educators to bring the local elements of the country to bear in the science curriculum. In experimenting with familiar materials used and consumed in our everyday lives, and applying scientific knowledge to analyse and provide explanations of the observed phenomena the editors and contributing authors hope to introduce culturally relevant science activities for enactment in the formal and informal science curriculum. This work is premised on the collective belief that learning science in culturally relevant ways underscores the importance of one's culture embodied with funds of knowledge to make the learning of science meaningful. They see this as a step toward achieving the broader and long-term goal of developing a scientifically literate citizenry. Contents:Red Dragon Fruit: Using Red Pigment Extracts from Pitayas as Natural Indicators (Teo Tang Wee)Delectable Blue! (Koh Bing Qin)Turmeric Spice as Natural Dye (Lin Jiansheng)Bubble Tea Toppings (Chew Shuhui Eunice and Ng Shi Han)Milk Tea = Teh-C and Teh (Ng Shi Han and Chew Shuhui Eunice)Coconut Water (Lim Shan Yan and Boo Michelle)No Durian on MRT! (Low Wei Chuan Matthias)Sodium Sulphite in Chicken Frank (Khoh Rong Lun)Biodegradable Tableware: Conserving Our Environment Through the Use of Materials from Renewable Resources (Tan Yong Leng Kelvin)Colour Matters! (Lim Jia Ying Jessica, Cho Wen Jing and Gan Ghim Kui)Teaching Kinematics Using Shuttle Run (Tang Chi Sin and Srinivasan Shyam) Readership: Students, professionals (especially science educators — teachers and

academics) and general public who are interested in the relevance of science to their everyday lives and making connections between science learning and the cultural elements in Singapore. Key Features:This is an inaugural book that purposefully engages students in science learning by making connections to the cultural elements of SingaporeThrough doing culturally relevant science activities students see the relevance of science in their everyday livesThis book offers a platform for teachers to showcase their professional knowledgeKeywords:Culturally Relevant Science;Science Activities;Singapore Teachers

Essentials of Biotechnology I. K. International Pvt Ltd
Essentials of Biotechnology is meant for undergraduate biotechnology and life sciences students. The book discusses the basics of interdisciplinary subjects which is required for developing the conceptual understanding in biotechnology and to acquire research attitude. It elaborates fundamental concepts which are absolutely necessary for budding biotechnologists. It is an attempt to cover broad spectrum of biological dimensions with biotechnological exploration. Section-I elaborates theoretical aspects of basic biology, biochemistry, microbiology, molecular biology with correlation to modern applied aspects.Section-II is grounded in the experimental approach. Each experiment is described with sufficient details. The figures and tables provided with experiments will be helpful to the students and the instructor for better understanding of the scientific principles and skillful execution of the experiments.

Quality Assurance in Tropical Fruit Processing Springer Science & Business Media
Tropical and subtropical countries have become well aware of the fact, that they must make better use of their fruits. In spite of the favourable climatic conditions for the production of varieties of delicious fruits in such countries, continuously high tempemtures shorten the shelf-life of most fruits and fruit products. A tropical climate provides ideal conditions for mpid growth of spoilage microorganisms and for chemical reactions. Most of such reactions in fruits and fruit products are deteriomtive in nature causing high respiration rates, texture softening and spoilage of fruit. This causes loss of colour, flavour and vitamins, and browning of fruit products. Even though a fruit product has been rendered microbiolo gically stable, these chemical reactions continue to occur in storage, and they occur much more mpidly in a tropical climate. The processing of fruits and soft drinks is a predominate food industry in tropical and subtropical countries. Some of the large companies in such industries are partly foreign owned. They seem to be efficiently operated with adequate capital, good management, and technological competence, all of which are usually imported from the parent company. However, most of small and medium companies are locally owned, and are deficient in technology and management ability. The products are generally fair. It is rare to find a trained quality assurance manager in these companies. Processing of good fruit products, especially for export, requires sound fruit processing lines as well as good managementthat achieves internationally accept ed standards of quality.

Climate Change and Plant Abiotic Stress Tolerance John Wiley & Sons
In this ready reference, a global team of experts comprehensively cover molecular and cell biology-based approaches to the impact of increasing global temperatures on crop productivity. The work is divided into four parts. Following an introduction to the general challenges for agriculture around the globe due to climate change, part two discusses how the resulting increase of abiotic stress factors can be dealt with. The third part then outlines the different strategies and approaches to address the challenge of climate change, and the whole is rounded off by a number of specific examples of improvements to crop productivity. With its forward-looking focus on solutions, this book is an indispensable help for the agro-industry, policy makers and academia.

Stress Biology Alpha Science Int'l Ltd.
"Stress Biology discusses the impact of various stresses on biological systems with emphasis on crop systems. The forty fix contributions in the book have been divided into two broad sections i.e., Abiotic Stresses and Biotic Stresses. The book covers all areas of modern research - biochemistry, plant physiology, pathology, molecular biology, microbiology and related areas connected to the interaction of microbes, plants, animals and environment."--BOOK JACKET.

biochecmical sciences: health and environmental aspects Allied Publishers

Indian Journal of Marine Sciences

New Horizons in Insect Science: Towards Sustainable Pest Management Springer
Insect science is fast changing as insects are evolving to a plethora of newer chemical molecules, climate change, management tactics and transformation of the landscapes. Through the International Conference, the editors have attempted to gather together newer aspects of Insect Sciences like Insect Taxonomy, DNA Barcoding, Physiology, Toxicology, Vectors and their Management, Molecular Biology, RNA interference in Pest Management, Semiochemicals and Pest Management using Host Plant Resistance and Biological Control appropriated especially for the developing world. Both basic and applied aspects of insect science have been included to stimulate comprehensive studies on insect science. The book not only deals with insect science but also environmental and ecological aspects in the hope that the book will be of immense use to students, researchers, extension workers, planners, administrators, farmers and other end users. The Chapters on diversified aspects of Insect Science are contributed by leading scientists for the coming 21st century in which entomology is witnessing a dramatic advancement in management of pests through in-depth investigations. The dimensions of Insect Science covered in the book are pest management approaches that can be adopted worldwide with ascent on sustainability.

Educational Infrastructure for Biotechnology in India Concept Publishing Company

Mutation Breeding in Chickpea: Walter de Gruyter GmbH & Co KG
The book by M. Imran Kozgar aims to cover the problems of mutation breeding in pulse crops in the light of issues related to food insecurity and malnutrition, which according to FAO are the major threats at the present time. So far the research on induction of mutation in pulse crops is negligible compared to cereal crops, though the pulse crops and especially the chickpea are the largest grown crops in India. The main objective of the book is to reveal and explore the possibility of inducing genetic variability in early generations of mutated chickpea, describe the positive aspects of mutagenic treatments, evaluate the content of mineral elements (iron, manganese, zinc and copper) and physiological parameters of isolated high yielding mutant lines. The author hopes that his book will help to advance studies on pulse crops, and that in the long term it will help to reduce the food insecurity and malnutrition problems presently persisting in various developing countries, including India.

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Postharvest Technology of Horticultural Crops New India Publishing
The contents of s have been put up in the simplest language giving separate instructions for the students and teacher as well as relevant information on the topics so that conduct of practical becomes easy and systematic.

Salt Tolerant Rhizobacteria: For Better Productivity And Remediation Of Saline Soils Frontiers Media SA

Physical Biochemistry Macmillan
Suitable for advanced undergraduate and graduate students in biochemistry, this book provides clear, concise, well-exampled descriptions of the physical methods that biochemists and molecular biologists use.