

# *Encyclopedia of* **APPLIED PLANT SCIENCES**

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SECOND EDITION



# Encyclopedia Of Applied Plant Sciences

**Mohammad Irfan, Pankaj Kumar**



## **Encyclopedia Of Applied Plant Sciences:**

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production has been brought into greater focus as fluctuations in global food production feed through into prices and availability to consumers At the same time technological advances are changing the way plant science is done This Second Edition has been expanded to include specific chapters on the leading crops and crop types as well as updated chapters on plant development photosynthesis metabolism nutrition reproduction seed biology plant pests and diseases weed biology and responses to environmental stresses The updated chapters reflect progress particularly in genome sequencing and molecular genetics and biotechnology including genetic modification that have taken place since the first edition was published In addition the book places these developments in the wider context of biodiversity food security intellectual property and ethical considerations Presents complete up to date authoritative information on over 25 separate areas of plant science covering both theory and applications Edited and written by a distinguished international group of editors and contributors Provides concise easy to read gateway entries to topics each supplemented with a further reading list that allows practitioners students and researchers to delve deeper into each topic

**Encyclopedia of Applied Plant Sciences Vol. I, II, & III** Thomas Brian (ED),2003 New Visions in Plant Science Özge Çelik,2018-09-19 Over the past decade progress in plant science and molecular technologies has grown considerably This book focuses on plant biotechnology applications specializing in certain aspects of breeding and molecular marker assisted selection processes omic strategies usage of bioinformatic tools and nanotechnological improvements in agricultural sciences Most farmers and breeders can no longer simply turn to the older strategies and new instructions are needed to adapt their systems to achieve their production goals The book covers new information on using metabolomics and nanotechnology in agriculture In these circumstances all new data and technology are very important in plant science The topics in this book are practical and user friendly They allow practitioners students and academicians with specific background knowledge to feel confident about the principles presented on a new generation of molecular plant biotechnology applications

**Federal Librarian** ,2002 *Conservation Strategies Used to Maintain the Biodiversity* Priya Lokare,Dr. Anil Kumar,Dr. Uchit Kapoor,Dr. Devidas N. Patil ,2022-07-22 Conservation Strategies Used to Maintain the Biodiversity this book talks about the conservation strategies used to maintain biodiversity at the genetic species and ecosystem levels It is a small initiative to create awareness in society of the causes of biodiversity loss and the cautions and strategies required Many strategies are primarily highlighted in this book including tree plantation aesthetic value ex situ and in situ conservation manufacturing of eco friendly products the role of sacred groves in biodiversity conservation control of invasive species and sustainable utilization of environmental resources

**Bioengineered Fruit and Vegetables** Mohammad Irfan,Pankaj Kumar,2024-11-22 Postharvest environmental conditions of fruits and vegetables significantly affect quality and shelf life Bioengineering fruits and vegetables however can enhance their value and durability This book addresses the issues related to postharvest losses in fruits and vegetable crops using cutting edge technologies bringing together the most recent developments such as gene overexpression approaches

enzymes transcriptional factors or combinatorial engineering promoter engineering enhancing postharvest stability shelf life epigenetic regulation antioxidant regulated expression metabolic engineering and regulation of postharvest pathogen infection and decay using biotechnological tools and much more The book throws light on the current status as well as future prospects in this field as well

*Achieving sustainable crop nutrition* Prof Zed Rengel, 2020-02-18 Focus on integrating research on nutrient cycling crop nutrient processing and the environmental impact of fertiliser use to identify ways of improving nutrient use efficiency NUE in the use of particular fertilisers Includes research on a range of secondary macronutrients and micronutrients including calcium magnesium zinc boron manganese and molybdenum Reviews a wide range of options for reducing optimising current levels of fertiliser use

*Advances in Growth Regulation of Fruit Crops* Vishal Singh Rana, Neerja Rana, Sunny Sharma, 2025-04-24 Life science has experienced a unique level of growth and development in recent times as has the area of fruit crop regulation Hence the authors have been inspired to write this book entitled *Advances in Growth Regulation of Fruit Crops* There are limited books with advanced knowledge on the growth and development of fruit crops and therefore there is a need for greater information to be made available about basic and advanced concepts of growth and regulation vis a vis fruit development Growth regulation of fruit crops is a multifaceted and dynamic subject that requires simplified form so that the students pursuing UG B Sc in Horticulture or Life Sciences or PG M Sc and Doctorate in Fruit Science or Pomology can understand the concepts easily Our primary target is to upgrade students knowledge base by providing the latest information to researchers We hope it will help further knowledge about advances in the growth regulation of fruit crops This book has been designed with the dual purpose of being a text cum reference This book contains 20 crucial topics including an introduction to the growth and development of fruit crops eco physiological influences on the growth and development of fruit crops flowering and fruit set phloem transport source and sink crop load and assimilate partitioning and distribution root and canopy regulation of fruit crops plant growth regulators structure biosynthesis and mode of action plant growth inhibitors and growth retardants metabolic and morphogenetic effects absorption translocation and degradation of phytohormones growth manipulation through canopy architecture growth regulation aspects of propagation embryogenesis seed and bud dormancy physiology of flowering regulation of flowering and off season production flower drop and thinning fruit set and development fruit drop and parthenocarpy pre harvest factors affecting post harvest fruit quality fruit maturity ripening and storage and molecular approaches in crop growth regulation In a nutshell this book is written with the objective of scientific appraisal of the advances in the growth and development of fruit crops

**Synthetic Seeds** Mohammad Faisal, Abdulrahman A. Alatar, 2019-11-23 This book introduces the reader to synthetic or artificial seeds which refer to alginate encapsulated somatic embryos vegetative buds or any other micropropagules that can be used as seeds and converted into plantlets after propagating under in vitro or in vivo conditions Moreover synthetic seeds retain their potential for regeneration even after low temperature storage The production of

synthetic or artificial seeds using micropropagules opens up new vistas in agricultural biotechnology Encapsulated propagules could be used for in vitro regeneration and mass multiplication at reasonable cost In addition these propagules may be used for germplasm preservation of elite plant species and the exchange of plant materials between national and international laboratories This book offers state of the art findings on methods applications and prospects of synthetic or artificial seeds

*The Molecular Biology and Biotechnology of Flowering* Brian R. Jordan,2006-01-01 This is the second edition of the book first published in 1993 with a title of *The Molecular Biology of Flowering* It expands and updates the current knowledge of the molecular mechanisms of flowering and shows how molecular biology and the opportunities of biotechnology have made major progress when applied to flowering It includes new chapters and others substantially revised and updated Topics such as the evolution of flowers floral senescence and apomixis are included in this new edition The 13 chapters of this book are presented in the following sections external and internal regulation of flowering 3 chapters floral development 6 chapters and fertilization and gametophyte development 4 chapters The book is intended for research workers and advanced students in plant molecular biology and developmental biology from both pure and applied agricultural and horticultural perspectives

**Postharvest Pathology of Fresh Horticultural Produce** Lluís Palou,Joseph L. Smilanick,2019-10-28 Optimal distribution of fresh horticultural products entails prolonging their freshness and nutritional quality as long as possible after harvest A major limitation to their marketing is decay after harvest which is caused primarily by fungal pathogens *Postharvest Pathology of Fresh Horticultural Produce* provides a comprehensive resource of information about the biology and control of postharvest diseases of many fresh horticultural products citing sources from appropriate literature of any age rather than only the most recent The etiology and symptoms of postharvest diseases and the biology of postharvest pathogens are reviewed by leading experts who are familiar with many of world s most popular fresh fruits and vegetables and the diseases that affect them Key aspects related to infection and epidemiology methods to minimize postharvest decay losses including use of conventional fungicides and alternative management strategies harvest and handling practices and other aspects are described for the most significant temperate subtropical and tropical fruits as well as fruit like vegetables and leafy vegetables Features Provides comprehensive academic and practical reviews of postharvest diseases of fresh fruits and vegetables Discusses the economic importance etiology and epidemiology of the most significant postharvest diseases Includes quality color plates that allow the practical identification of disease symptoms Explains practical postharvest disease management actions including the use of conventional fungicides and alternatives to their use The authors summarize a massive quantity of published information and often apply their own considerable practical experience to identify and interpret the most significant information This book is a valuable and comprehensive resource for industry professionals academics educators students consultants pest control advisors regulatory personnel and others interested in this subject

Natural Antioxidants to Enhance the Shelf-Life of Food Mirian Pateiro,2024-08-15 Natural

Antioxidants to Enhance the Shelf Life of Food Volume Two in the Developments in Food Quality and Safety series is the most up to date resource covering trending topics such as the analysis of toxic compounds and control of food poisoning food fraud traceability and authenticity revalorization of agrifood industry and natural antimicrobial compounds and their applications to improve the preservation of food non thermal processing technologies nanotechnology in food production and intelligent packaging and sensors for food applications The book focuses on recent advances and strategies to use these compounds in the preservation of food Chapters explore advances in antioxidant activity analysis electrochemical methods food oxidative stability and natural antioxidants from agro industrial by products Natural antioxidants from marine sources and innovations in antioxidants films and coatings are also covered The series is edited by Dr Jos Manuel Lorenzo and authored by a team of global experts in the fields of Food Quality and Safety providing comprehensive knowledge to food industry personals and scientists Provides latest information on the use of natural antioxidants to enhance the food shelf life Covers a wide variety of sources and compounds that naturally exert antioxidant activity Thoroughly explains the natural compounds application in foods or their incorporation into packaging

**The Shroud of Turin** Giulio Fanti, Pierandrea Malfi, 2019-12-06 The Shroud of Turin is the most important and studied relic in the world The many scientific studies on the relic until today have failed to provide conclusive answers about the identity of the enveloped man and the dynamics regarding the image impressed therein This book not only addresses these issues in a scientific and objective manner but also leads the reader through new search paths In the second edition besides including some of the most recent findings on the Shroud the authors follow the many tips and comments received from readers The Shroud s dating by means of alternative methods has not been free from controversies some of which have even implied the non authenticity of the Shroud s samples tested So the authors duly expand Chapter 7 to include the proof of the origin of the samples used in the recent scientific research and also address the provenance and the path of the original sample Furthermore a new section contains a personal interview with the authors that is the result of the interesting and praiseworthy work of a Bavarian high school student Although there are many books on the subject none contains such a formidable quantity of scientific news and reports Unique in its genre this book is a powerful tool for those who want to study the Turin Shroud deeply

*Precision Agriculture Technologies for Food Security and Sustainability* Abd El-Kader, Sherine M., Mohammad El-Basioni, Basma M., 2020-10-16 Precision agriculture integrates new technologies with the agronomic experience to intelligently manage the high spatial variability of all agricultural variables and the time scales at which these variables change The right application of this approach increases the size and quality of the agricultural production saves resources improves environmental quality helps to achieve self sufficiency food security and agricultural sustainability increases exports and more Precision Agriculture Technologies for Food Security and Sustainability is an essential reference source that compiles a comprehensive multidisciplinary review of current research in the field of precision agriculture It also discusses cutting edge tools and models that can help facilitate and improve the

systems implementation Featuring coverage of a wide range of topics including agronomy public policy and internet of things this book is ideally designed for agriculturalists government officials economists environmentalists academicians researchers students and engineers in the fields of electronics ICT and agriculture *Visional Studies in Agricultural and Aquatic Science* Banu YÜCEL, Mustafa Tolga TOLON, 2020-06-05

**Biotechnological Approaches to Barley Improvement**  
Jochen Kumlehn, Nils Stein, 2014-11-20 This volume offers an up to date overview of biotechnologically oriented barley research It is structured into two major sections the first focusing on current agricultural challenges and approaches to barley improvement and the second providing insights into recent advances in methodology Leading scientists highlight topics such as the global importance of barley genetic diversity and genebanks domestication shoot and inflorescence architecture reproductive development mineral nutrition photosynthesis and leaf senescence grain development drought tolerance viral and fungal pathogens phytophagous arthropods molecular farming sequence resources induced genetic variation and TILLING meiotic recombination *Hordeum bulbosum* genome wide association scans genomic selection haploid technology genetic engineering and whole plant phenomics Providing comprehensive information on topics ranging from fundamental aspects to specific applications this book offers a useful resource for scientists plant breeders teachers and advanced students in the fields of molecular and plant cell biology plant biotechnology and agronomy

*Advances in Tropical Crop Protection* Mui-Yun Wong, 2024-06-30 This book presents research findings on newly discovered pests and diseases that may be impacted by climate change in the tropics current management techniques including molecular diagnostics integrated pest management IPM and agroecological approach and recent technological advancements used as preventive and curative approaches to mitigate the effects of plant pests and diseases Combining the expertise of leading researchers in the various fields the book provides a useful reference for all relevant stakeholders The proposed book is prepared with the aim of disseminating the current research development of emerging pests and diseases in the tropics in the era of climate change as well as new and eco friendly pest and disease management technologies of tropical crops The book is divided into three parts with sixteen chapters Part 1 Advances in Tropical Insect Pest Management consists of five chapters describing the discovery formulations and applications of nature based solutions such as natural enemies of insects insect hormones botanicals and microorganisms for sustainable pest management Part 2 Advances in Tropical Plant Disease Management consists of seven chapters describing the causal agents of economically important diseases of tropical crops rapid pathogen detection systems as well as effective and sustainable disease management strategies Part 3 Advances in Other Tropical Pests Management consists of four chapters detailing the various eco friendly pest management of vertebrates mollusks weeds and emerging IR4 0 technologies in pest management Ideas for future volumes on this subject Volume II would be a follow up to Volume I It covers emerging pests and diseases of the tropics in greater depth with a focus on specific hosts and diseases Robust pests and disease management technologies utilized in crop protection in tropical areas



by the farmers will be discussed as well Biocoating for Fertilizer Industry Husnul Azan Tajarudin, Charles Wai Chun Ng, 2022-10-18 This book presents the advancement of coating materials technology especially in agriculture particularly for fertilizers Fertilizers are a critical component in meeting rising demands and ensuring global food security A new generation of fertilizers made by coating granules with biopolymers address these issues Coating in agriculture is an important area in research for a more sustainable future Many examples and instances from existing research and related research gaps are discussed It includes applications of composites as fertilizer s coating advantages and disadvantages of fertilizer coating from composites applications of bacteria in composite applications of bacteria in fertilizer industry as well as the common techniques of coating fertilizers with drying process

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