



# **Postharvest biology and technology of tropical and subtropical fruits**

**Volume 4: Mangosteen to white sapote**

**Edited by Elhadi M. Yahia**

# Postharvest Biology

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## **Postharvest Biology:**

**Postharvest Biology and Technology of Fruits, Vegetables, and Flowers** Gopinadhan Paliyath, Dennis P. Murr, Avtar K. Handa, Susan Lurie, 2009-03-16 An increased understanding of the developmental physiology biochemistry and molecular biology during early growth maturation ripening and postharvest conditions has improved technologies to maintain the shelf life and quality of fruits vegetables and flowers *Postharvest Biology and Technology of Fruits Vegetables and Flowers* provides a comprehensive introduction to this subject offering a firm grounding in the basic science and branching out into the technology and practical applications An authoritative resource on the science and technology of the postharvest sector this book surveys the body of knowledge with an emphasis on the recent advances in the field *Postharvest Biology and Technology of Tropical and Subtropical Fruits* Elhadi M. Yahia, 2011-09-19 Tropical and subtropical fruits are popular products but are often highly perishable and need to be transported long distances for sale The four volumes of *Postharvest biology and technology of tropical fruits* review essential aspects of postharvest biology postharvest technologies handling and processing technologies for both well known and lesser known fruits Volume 1 contains chapters on general topics and issues while Volumes 2 3 and 4 contain chapters focused on individual fruits organised alphabetically Volume 1 provides an overview of key factors associated with the postharvest quality of tropical and subtropical fruits Two introductory chapters cover the economic importance of these crops and their nutritional benefits Chapters reviewing the postharvest biology of tropical and subtropical fruits and the impact of preharvest conditions harvest circumstances and postharvest technologies on quality follow Further authors review microbiological safety the control of decay and quarantine pests and the role of biotechnology in the improvement of produce of this type Two chapters on the processing of tropical and subtropical fruit complete the volume With its distinguished editor and international team of contributors Volume 1 of *Postharvest biology and technology of tropical and subtropical fruits* along with the other volumes in the collection will be an essential reference both for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area Along with the other volumes in the collection Volume 1 is an essential reference for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area Focuses on fundamental issues of fruit physiology quality safety and handling relevant to all those in the tropical and subtropical fruits supply chain Chapters include nutritional and health benefits preharvest factors food safety and biotechnology and molecular biology *Postharvest Biology and Technology of Temperate Fruits* Shabir Ahmad Mir, Manzoor Ahmad Shah, Mohammad Maqbool Mir, 2018-05-29 This edited volume provides insight into temperate fruits with an emphasis on postharvest physiology storage packaging and technologies for maintaining fruit quality Chapters are devoted to individual fruits and focus on fundamental issues such as methods for maintaining or enhancing quality minimizing postharvest losses and recommended technologies to boost demand Contributions come from experts in the field

making this a key reference for all aspects of postharvest management of temperate fruits The volume is unique in its focus on the biodiversity nutritional and health benefits and postharvest technologies for shelf life enhancement of temperate fruits Contributing authors address the postharvest biology and technology of individual temperate fruits such as plum cherry peach apricot apple pear quince loquat kiwi persimmon and berries There has been tremendous growth in the research and development of new techniques to maintain the quality of temperate fruits from farm to table Contributions from experts in the field cover these recent advances providing up to date and relevant information for researchers postharvest fruit technologists food scientists postgraduate students and others working in the industry

**Postharvest Biology and Technology of Horticultural Crops** Mohammed Wasim Siddiqui, 2015-05-01 The ultimate goal of crop production is to provide quality produce to consumers at reasonable rates Most fresh produce is highly perishable and postharvest losses are significant under the present methods of management in many countries However significant achievements have been made during the last few years to curtail postharvest losses in fr

*Postharvest Biology and Technology for Preserving Fruit Quality* Daniel Valero, Maria Serrano, 2010-05-12 Interest in the postharvest behavior of fruits and vegetables has a history as long as mankind s Once we moved past mere survival the goal of postharvest preservation research became learning how to balance consumer satisfaction with quantity and quality while also preserving nutritional quality A comprehensive overview of new postharvest techno

**Bio-management of Postharvest Diseases and Mycotoxigenic Fungi** Neeta Sharma, Avantina Bhandari, 2020-08-31 There is an ever increasing demand for more food but one of the stumbling blocks to achieving this goal is quality and quantity losses due to various pests and pathogens and the mycotoxins synthesized by these harmful biotic entities Thus far strategies employed to manage these post harvest diseases and mycotoxins decontamination include established physical cultural and chemical methods Recently the application of chemicals to reduce decay and deterioration caused by various pathogens has been impeded as these hazardous chemicals contaminate the environment enter the food chain and destroy beneficial microorganisms and pests by aiming at non target microorganisms In light of this the usage of eco friendly and non polluting alternatives to chemical pesticides is the call of the hour Bio management of Postharvest Diseases and Mycotoxigenic Fungi deals with the current state and future prospects of using various bio management techniques that are natural eco friendly and environmentally safe It aims to increase awareness of their potential as well as sensitizing readers to the various aspects of biologicals in pest control Key Features Highlights classical versus new techniques adopted to manage postharvest diseases Discusses novel approaches in managing fungal spoilage and mycotoxin decontamination Provides readers with a 360 degree perspective of the pre and post harvest quality mycotoxin decontamination research being conducted Details proposals of new ideas to ensure a food secure and pesticide free world This book disseminates notable and diversified scientific work carried out by leading experts in their own field Written by qualified scientists in each of their respective disciplines it can serve as a current and comprehensive treatise on the

emerging field of bio management of postharvest diseases and mycotoxin decontamination by products that are generally regarded as safe

*Postharvest Biology and Technology of Horticultural Crops* Mohammed Wasim Siddiqui, 2015-05-01 The ultimate goal of crop production is to provide quality produce to consumers at reasonable rates. Most fresh produce is highly perishable and postharvest losses are significant under the present methods of management in many countries. However, significant achievements have been made during the last few years to curtail postharvest losses in fresh produce and to ensure food security and safety as well. These include advancements in breeding horticultural crops for quality improvement, postharvest physiology, postharvest pathology and entomology, postharvest management of fruits, vegetables and flowers, nondestructive technologies to assess produce quality, minimal processing of fruits and vegetables as well as innovations in packaging and storage technology of fresh produce. This new book *Postharvest Biology and Technology of Horticultural Crops: Principles and Practices for Quality Maintenance* describes the above mentioned advancements in postharvest quality improvement of fresh horticultural produce. This book will be a standard reference work for postharvest management for the fresh produce industry. It presents important new advances that will extend the shelf life of fresh produce by retaining its safety and nutritional or sensory quality. The book covers a multitude of topics, particularly advances in Conventional breeding approaches for fruits and vegetables, Storage of fruits and vegetables, Postharvest treatment and smart packaging, Management of pests and other postharvest diseases, Postharvest management of fresh cut flowers, Management of medicinal and aromatic plants during postharvest, Biotechnological methods for postharvest management

**Postharvest Management Approaches for Maintaining Quality of Fresh Produce** Mohammed Wasim Siddiqui, Jesus Fernando Ayala Zavala, Cheng-An (Andy) Hwang, 2016-02-24 The volume presents existing and novel management approaches that are in use or have a great potential to be used to maintain the postharvest quality of fresh produce in terms of microbiological safety, nutrition and sensory quality. In comparison to traditional synthetic chemicals, these eco friendly molecules are equally effective with respect to slowing the physiological and biochemical changes in harvested produce. Application of terpenic compounds, phenolic compounds, salicylic acid, methyl jasmonates, hydrogen peroxide, ethanol, sulphur compounds, polyamines, plant growth regulators, active carbohydrates, ozone, hexanal and nitric oxide have been proven effective in minimizing storage disorders like chilling injury, scald, fungal diseases like stem end rot, blue mould, rot, green mould, rot, anthracnose, regulation of ripening and senescence etc. This book will be a standard reference work for the management of shelf life in the fresh produce industry

**Decontamination of Fresh and Minimally Processed Produce** Vicente M. Gómez-López, 2012-05-01 Attempts to provide safer and higher quality fresh and minimally processed produce have given rise to a wide variety of decontamination methods, each of which have been extensively researched in recent years. *Decontamination of Fresh and Minimally Processed Produce* is the first book to provide a systematic view of the different types of decontaminants for fresh and minimally processed produce. By describing the different effects, microbiological

sensory nutritional and toxicological of decontamination treatments a team of internationally respected authors reveals not only the impact of decontaminants on food safety but also on microbial spoilage vegetable physiology sensory quality nutritional and phytochemical content and shelf life Regulatory and toxicological issues are also addressed The book first examines how produce becomes contaminated the surface characteristics of produce related to bacterial attachment biofilm formation and resistance and sublethal damage and its implications for decontamination After reviewing how produce is washed and minimally processed the various decontamination methods are then explored in depth in terms of definition generation devices microbial inactivation mechanisms and effects on food safety Decontaminants covered include chlorine electrolyzed oxidizing water chlorine dioxide ozone hydrogen peroxide peroxyacetic acid essential oils and edible films and coatings Other decontamination methods addressed are biological strategies bacteriophages protective cultures bacteriocins and quorum sensing and physical methods mild heat continuous UV light ionizing radiation and various combinations of these methods through hurdle technology The book concludes with descriptions of post decontamination methods related to storage such as modified atmosphere packaging the cold chain and modeling tools for predicting microbial growth and inactivation The many methods and effects of decontamination are detailed enabling industry professionals to understand the available state of the art methods and select the most suitable approach for their purposes The book serves as a compendium of information for food researchers and students of pre and postharvest technology food microbiology and food technology in general The structure of the book allows easy comparisons among methods and searching information by microorganism produce and quality traits

Food Science and Technology Oluwatosin Ademola Ijabadeniyi, 2020-12-07 Food Science and Technology Trends and Future Prospects presents different aspects of food science i.e food microbiology food chemistry nutrition process engineering that should be applied for selection preservation processing packaging and distribution of quality food The authors focus on the fundamental aspects of food and also highlight emerging technology and innovations that are changing the food industry The chapters are written by leading researchers lecturers and experts in food chemistry food microbiology biotechnology nutrition and management This book is valuable for researchers and students in food science and technology and it is also useful for food industry professionals food entrepreneurs and farmers **Sustainable**

**Postharvest Technologies for Fruits and Vegetables** Sajid Ali, Shabir Ahmad Mir, B.N. Dar, Shaghef Ejaz, 2024-08-30

Fruits and vegetables commonly termed as fresh produce are an important component of the human diet as these provide various beneficial and essential health related compounds Nevertheless fresh produce is susceptible to postharvest deterioration and decay along with loss of certain nutrients due to inappropriate storage conditions and lack of standard postharvest technologies In addition the short shelf life is considered another major constraint that must be extended after harvest to ensure a wider availability window of the fresh produce for consumers From this perspective the use of postharvest approaches is considered imperative to reduce the deterioration of harvested fresh produce in order to extend

their storage and shelf life potential on a sustainable basis Sustainable Postharvest Technologies for Fruits and Vegetables covers various aspects of postharvest technologies with major developments over the recent past and provides a way forward for the future The sustainable use of various technologies and elicitors could be adapted from farm to fork in order to conserve the eating quality of fresh produce Therefore this book covers various sustainable postharvest treatments and technologies that could be considered highly effective for the delay of postharvest senescence and deterioration Among the various technologies the use of preharvest treatments controlled atmosphere dynamic control atmosphere modified atmosphere and hypobaric conditions has tremendous potential for the fresh fruits and vegetables industry In the same way cold plasma pulsed light ultraviolet light ultrasound technology nanoemulsions nano packaging electrolyzed water high pressure processing ozone gas irradiations edible coatings vacuum packaging and active packaging with slow releasing compounds along with nanotechnology are highly practicable and possesses tremendous potential to be used in the maintenance of overall eating quality and storage life extension of the fresh produce Key Features Overviews the major factors affecting postharvest physiology and shelf life potential of fresh produce Focuses on major sustainable technologies having the potential to maintain postharvest quality and extend shelf life of fruits and vegetables Describes practical and recent advances of various approaches indispensable for the maintenance of overall eating quality and food safety attainment for fresh produce on a sustainable basis Covers how quality maintenance and shelf life rely on preharvest practices nonthermal treatments storage atmospheres packaging materials active packaging edible packaging coating application techniques nanotechnology and ecofriendly plant extracts and natural antagonists **Bio-based Plastics for Food**

**Packaging Applications** Vimal Katiyar, 2017-07-19 This book discusses the development of bio based plastics and associated nanocomposites in order to achieve targeted structural morphologies and physical and chemical properties for use in food packaging applications In line with bio based and or biodegradable plastic matrices the current status of the development of multifaceted bionanofillers is also explored in detail This book begins by addressing the past present and future prospects of bio based and or biodegradable polymers in specific food packaging applications and the importance and advantages of such packaging over fossil polymer based packaging materials Furthermore this book also examines the current commercial overview of bio based and or biodegradable polymers and nanocomposites and the structure property relationship required for various advanced applications Individual chapters detail bio based polymers bio derived and microbial derived plastics which include exclusive investigations on the most promising polymers such as polylactic acid PLA and polyhydroxyalkanoates PHA and their bionanocomposites for food packaging applications Detailed discussions highlight the various properties of polymers for food packaging applications including bio based and or biodegradable polymers and nanocomposites The processing of blends using bio based and or biodegradable polymers and non degradable polymers for food packaging applications are also featured In addition extensive discussions include different edible biopolymer based

coatings on food items which can act as effective carriers for improving the shelf life of food. Moreover, various end-of-life solutions of plastics such as recycling, reuse, composting, and so on for the safe disposal of plastic waste are reviewed. Finally, this book discusses migration studies and safety legislation and regulations of such packages in contact with food which are currently being performed by various organisations across the world. Throughout the book, detailed case studies are included on sustainable polymers and associated nanocomposites along with different perspectives on their industrial applications and critical challenges and opportunities for developing biopolymer nanocomposites for food packaging applications.

Postharvest Biology and Nanotechnology Gopinadhan Paliyath, Jayasankar Subramanian, Loong-Tak Lim, K. S. Subramanian, Avtar K. Handa, Autar K. Mattoo, 2019-01-30. A comprehensive introduction to the physiology, biochemistry, and molecular biology of produce growth paired with cutting-edge technological advances in produce preservation. Revised and updated, the second edition of *Postharvest Biology and Nanotechnology* explores the most recent developments in postharvest biology and nanotechnology. Since the publication of the first edition, there has been an increased understanding of the developmental physiology, biochemistry, and molecular biology during early growth, maturation, ripening, and postharvest conditions. The contributors, noted experts in the field, review the improved technologies that maintain the shelf life and quality of fruits, vegetables, and flowers. This second edition contains new strategies that can be implemented to remedy food security issues, including but not limited to phospholipase D inhibition technology and ethylene inhibition via 1-MCP technology. The text offers an introduction to technologies used in production practices and distribution of produce around the world, as well as the process of senescence on a molecular and biochemical level. The book also explores the postharvest value chain for various produce, quality evaluation techniques, and the most current nanotechnology applications. This important resource expands on the first edition to explore in depth postharvest biology with emphasis on developments in nanotechnology. Contains contributions from leaders in the field. Includes the most recent advances in postharvest biology and technology, including but not limited to phospholipase D and 1-MCP technology. Puts the focus on basic science as well as technology and practical applications. Applies a physiology, biochemistry, and biotechnology approach to the subject. Written for crop science researchers and professionals, horticultural researchers, agricultural engineers, food scientists working with fruits and vegetables. *Postharvest Biology and Nanotechnology*, Second Edition, provides a comprehensive introduction to this subject with a grounding in the basic science with the technology and practical applications. *Tropical Fruits, Volume 1, 3rd Edition* Robert E. Paull, Odilo Duarte, 2025-05-28. Over the past few years, there has been an increase in the variety of tropical fruits available for consumption due to improved breeding, postharvest management, and distribution systems. The production and world trade of fresh tropical fruits is expected to expand further, aided by consumer demand for healthy diets and for trying new foods. The third edition of this book covers major tropical fruits such as avocado, banana, litchi, mango, papaya, and pineapple. The first five chapters describe general aspects of the tropical climate and its soils, fruit production,



techniques tree management and postharvest handling Following these are self contained chapters on single fruits that provide in depth studies of botany taxonomy varieties propagation orchard management biotic and abiotic problems and utilization The ancient and modern propagation and cultural practices are described to show the regional differences that environmental and biological pressures exert on fruit production and fruit quality Tropical Fruits 3rd edition is essential reading for students and teachers of horticulture and tropical agriculture as well as for horticultural industry personnel

**Postharvest Handling** Ibrahim Kahramanoglu, 2017-09-13 The world population has been increasing day by day and demand for food is rising Despite that the natural resources are decreasing and production of food is getting difficult At the same time about one quarter of what is produced never reaches the consumers due to the postharvest losses Therefore it is of utmost importance to efficiently handle store and utilize produce to be able to feed the world reduce the use of natural resources and help to ensure sustainability At this point postharvest handling is becoming more important which is the main determinant of the postharvest losses Hence the present book is intended to provide useful and scientific information about postharvest handling of different produce Fruit and Vegetable Phytochemicals Elhadi M. Yahia, 2017-11-06 Now in two volumes and containing more than seventy chapters the second edition of Fruit and Vegetable Phytochemicals Chemistry Nutritional Value and Stability has been greatly revised and expanded Written by hundreds of experts from across the world the chapters cover diverse aspects of chemistry and biological functions the influence of postharvest technologies analysis methods and important phytochemicals in more than thirty fruits and vegetables Providing readers with a comprehensive and cutting edge description of the metabolism and molecular mechanisms associated with the beneficial effects of phytochemicals for human health this is the perfect resource not only for students and teachers but also researchers physicians and the public in general

**Oxygen, Nitrogen and Sulfur Species in Post-Harvest Physiology of Horticultural Crops** Vasileios Ziogas, Francisco J. Corpas, 2023-11-01 Oxygen Nitrogen and Sulfur Species in Post harvest Physiology of Horticultural Crops a volume in the Plant Gasotransmitter series analyzes the latest advances in post harvest physiology The book presents metabolic cascades and highlights the role of gasotransmitters as intercellular regulators of metabolic processes Post harvest physiology differs between climacteric and non climacteric fruits and vegetables as well as for fresh cut flowers and non food plants Initial chapters review the cascades intercellular pathways and messenger molecules that drive ripeness and longevity presenting the chemistry behind key pathways The books also takes a deep dive into core gasotransmitters describing the data behind known properties chemistry and physiological roles Applications for prolonging shelf life via the control of post harvest fungi bacteria and omics approaches are reviewed in detail offering readers guidance on how to put gasotransmitters research into practice This is an essential resource for students researchers and agronomists interested in plant physiology biochemistry and plant hormones Describes the use and application of oxygen nitrogen and sulfur species towards the prolonging of post harvest shelf life in agricultural products

Explores eco friendly alternatives to hazardous chemical compounds used to preserve fruits Presents metabolic cascades and evaluates the crosstalk and interaction of gasotransmitters within these cascades *Fresh-Cut Fruits and Vegetables* Sunil Pareek, 2016-08-05 Because they meet the needs of today's consumers fresh cut plant products are currently one of the hottest commodities in the food market of industrialized countries However fresh cut produce deteriorates faster than the correspondent intact produce The main purpose of *Fresh Cut Fruits and Vegetables Technology Physiology and Safety* is to provide helpful guidelines to the industry for minimizing deterioration keeping the overall quality and lengthening the shelf life It provides an integrated and interdisciplinary approach for accomplishing the challenges where raw materials handling minimal processing packaging commercial distribution and retail sale must be well managed It covers technology physiology quality and safety of fresh cut fruits and vegetables In this book the chapters follow a logical sequence analyzing most of the important factors affecting the main characteristics of fresh cut horticultural products The most relevant technologies to prevent deterioration and improve final overall quality of fresh cut commodities are described in detail This book covers the basics of the subject from quality preservation nutritional losses physiology and safety to industry oriented advancements in sanitization coatings and packaging It examines such novel preservation technologies as edible coatings antimicrobial coatings natural antimicrobials gum arabic coatings and pulsed light treatments Minimal processing design and industrial equipment are also reviewed With its international team of contributors this book will be an essential reference work both for professionals involved in the postharvest handling of fresh cut and minimally processed fruits and vegetables and for academic and researchers working in the area **Modern Fruit Industry** Ibrahim Kahramanoglu, Nesibe Ebru Kafkas, Ayzin Küden, Songül Çömlekçioğlu, 2020-03-04 Starting in the 1940s humans have aimed to increase agricultural productivity However along with the benefits gained there have been several criticisms since the 1970s especially about food security and environmental impacts Nowadays the demand for food is increasing while the quantity and quality of agricultural production is declining due to human induced environmental problems i.e. climate change and water scarcity Moreover our modern fruit industry needs to improve quality and quantity of fruit production while also protecting ecosystems by reducing environmental impacts Hence this book intends to provide the reader with a comprehensive overview of the new and eco friendly technologies in the modern fruit industry **Crop Post-Harvest: Science and Technology, Volume 3** Debbie Rees, Graham Farrell, John Orchard, 2012-03-26 International trade in high value perishables has grown enormously in the past few decades In the developed world consumers now expect to be able to eat perishable produce from all parts of the world and in most cases throughout the year Perishable plant products are however susceptible to physical damage and often have a potential storage life of only a few days Given their key importance in the world economy *Crop Post Harvest Science and Technology Perishables* devotes itself to perishable produce providing current and comprehensive knowledge on all the key factors affecting post harvest quality of fruits and vegetables This volume focuses

explicitly on the effects and causes of deterioration as well as the many techniques and practices implemented to maintain quality through correct handling and storage. As highlighted throughout, regular losses caused by post harvest spoilage of perishable products can be as much as 50%. A complete understanding as provided by this excellent volume is therefore vital in helping to reduce these losses by a significant percentage. Compiled by members of the world renowned Natural Resources Institute at the United Kingdom's University of Greenwich with contributions from experts around the world, this volume is an essential reference for all those working in the area. Researchers and upper level students in food science, food technology, post harvest science and technology, crop protection, applied biology and plant and agricultural sciences will benefit from this landmark publication. Libraries in all research establishments and universities where these subjects are studied and taught should ensure that they have several copies for their shelves.

Uncover the mysteries within is enigmatic creation, **Postharvest Biology** . This downloadable ebook, shrouded in suspense, is available in a PDF format ( Download in PDF: \*). Dive into a world of uncertainty and anticipation. Download now to unravel the secrets hidden within the pages.

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