



Fruit Quality and its Biological Basis

Edited by
Michael Knee

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Fruit Quality And Its Biological Basis:

Fruit Quality and Its Biological Basis Michael Knee, 2002 Fruit technology draws on biology and engineering to maintain quality during storage distribution and marketing This book focuses on the biological processes that determine appearance texture taste nutritional value and flavor of fleshy fruits It also focuses on the ways by which these biological processes can be manipulated to maximize quality for the consumer It discusses the advances in the understanding of these procedures at the molecular level and the mode of action and limitations of current technology for postharvest handling of fruits A concluding chapter examines prospects for the genetic control of fruit development composition and quality

Breeding for Fruit Quality Matthew A. Jenks, Penelope Bebeli, 2011-01-21 The global demand for high quality fruits that are rich in nutrients and that can endure the demands of worldwide supply chains is growing rapidly Fruits are an important component of the human diet providing vitamins minerals antioxidants and fiber All of these qualities contribute to the nutritional needs and health maintenance of humans Breeding for Fruit Quality reviews the application of modern plant breeding methods to the development of improved varieties of fruits Breeding for Fruit Quality opens with chapters that look at fruit biology and breeding strategies behind specific traits including a look at traits such as organoleptic quality nutritional value and improved yield among others Subsequent chapters review breeding efforts to improve overall quality in a wide range of specific fruits Providing broad ranging coverage of cutting edge methods now being applied to the development of fruit crops Breeding for Fruit Quality will be a valuable resource for fruit biologists breeders geneticists and industry personnel Key Features Broad coverage of modern breeding technologies being implemented to improve overall fruit quality Trait specific chapters explore efforts to promote traits of industrial and nutritional importance Chapters in fruits ranging from apple and grapes to tomatoes and olives provide detailed coverage of breeding practices for economically important fruit crops

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

Water Use Efficiency in Plant Biology Mark Bacon, 2009-02-12 This is the first volume to provide comprehensive coverage of the biology of water use efficiency at molecular cellular whole plant and community levels While several works have included the phenomenon of water use efficiency and others have concentrated on an agronomic framework this book represents the first detailed treatment with a biological focus The volume sets out the definitions applicable to water use efficiency the

fundamental physiology and biochemistry governing the efficiency of carbon vs water loss the environmental regulation of this process and the detailed physiological basis by which the plant exerts control over such efficiency It is aimed at researchers and professionals in plant physiology biochemistry molecular biology developmental biology and agriculture It will also inform those involved in formulating research and development policy in this topic around the world **New Advances in Postharvest Technology** Ibrahim Kahramanoglu, 2023-09-27 Producers spend a great deal of money natural resources especially water and soil labor and time every year in order to feed the world's population However almost one third of the products produced as a result of all these efforts are lost before reaching consumers due to postharvest losses which threaten both the food supply and agricultural sustainability For this reason it is extremely important to prevent postharvest losses of fruits and vegetables In this context this book provides general and new information about the physiology of postharvest losses and the latest technological developments in postharvest systems Each chapter provides up to date information about the postharvest physiology and technology of fruits and vegetables for students teachers professors scientists farmers food packers and sellers and entrepreneurs engaged in the fresh food preservation industry

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 *Plant*

Lipids Denis J. Murphy, 2020-02-03 New research tools have revealed many surprising aspects of the dynamic nature of lipids and their participation in processes such as recognition intra and inter cellular signalling deterrence and defense against pathogens membrane trafficking and protein function This is in addition to new information on the more established roles of plant lipids as structural components of membranes and as long term storage products Plant lipids are also increasingly being seen as sources of a new generation of environmentally friendly biodegradable and renewable industrial products including biopolymers and high grade lubricants Plant Lipids Biology Utilisation and Manipulation provides a broad overview of plant lipid research and its many applications Linking various disciplines the editor brings together researchers from major international laboratories to review the history and current state of progress in this quickly evolving field The text starts by providing a fascinating historical perspective on the study of plant lipids from its inception as a branch of alchemy in the seventeenth century to the current post genomic era It then offers a detailed discussion on the formation modification and utilization of fatty acids This is followed by an exploration of the major classes of macromolecular structures formed by plant lipids including bilayer membranes and storage bodies From there the contributors consider other types of macromolecular lipid assemblies in plants examining proteins and the key plant lipid structure the cuticle The final chapters look at diverse classes of plant lipids that are linked to various aspects of signaling This text provides an excellent resource for researchers and professionals in plant biochemistry molecular biology biotechnology and genetics in both the academic and industrial sectors It also meets the needs of students looking for a comprehensive introduction to this field as well as direction for fut Molecular and Metabolic Mechanisms Associated with Fleshy Fruit Quality Ana M. Fortes, Antonio

Granell, Mario Pezzotti, Mondher Bouzayen, 2017-09-08 Fleshy Fruits are a late acquisition of plant evolution In addition of protecting the seeds these specialized organs unique to plants were developed to promote seed dispersal via the contribution of frugivorous animals Fruit development and ripening is a complex process and understanding the underlying genetic and molecular program is a very active field of research Part of the ripening process is directed to build up quality traits such as color texture and aroma that make the fruit attractive and palatable As fruit consumers humans have developed a time long interaction with fruits which contributed to make the fruit ripening attributes conform our needs and preferences This issue of *Frontiers in Plant Science* is intended to cover the most recent advances in our understanding of different aspects of fleshy fruit biology including the genetic molecular and metabolic mechanisms associated to each of the fruit quality traits It is also of prime importance to consider the effects of environmental cues cultural practices and postharvest methods and to decipher the mechanism by which they impact fruit quality traits Most of our knowledge of fleshy fruit development ripening and quality traits comes from work done in a reduced number of species that are not only of economic importance but can also benefit from a number of genetic and genomic tools available to their specific research communities For instance working with tomato and grape offers several advantages since the genome sequences of these two fleshy fruit species have

been deciphered and a wide range of biological and genetic resources have been developed. Ripening mutants are available for tomato which constitutes the main model system for fruit functional genomics. In addition, tomato is used as a reference species for climacteric fruit which ripening is controlled by the phytohormone ethylene. Likewise, grape is a reference species for non-climacteric fruit even though no single master switches controlling ripening initiation have been uncovered yet. In the last period, the genome sequence of an increased number of fruit crop species became available which creates a suitable situation for research communities around crops to get organized and information to be shared through public repositories. On the other hand, the availability of genome-wide expression profiling technologies has enabled an easier study of global transcriptional changes in fruit species where the sequenced genome is not yet available. In this issue, authors will present recent progress including original data as well as authoritative reviews on our understanding of fleshy fruit biology focusing on tomato and grape as model species.

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.

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

Plant Growth and Climate Change James I. L. Morison, Michael D. Morecroft, 2008-04-15 Evidence grows daily of the changing climate and its impact on plants and animals. Plant function is inextricably linked to climate and atmospheric carbon dioxide concentration. On the shortest and smallest scales, the climate affects the plant's immediate environment and so directly influences physiological processes. At larger scales, the climate influences species distribution and community composition as well as the viability of different crops in managed ecosystems. Plant growth also influences the local, regional, and global climate through the exchanges of energy and gases between the plants and the air around them. *Plant Growth and Climate Change* examines the major aspects of how anthropogenic climate change affects plants, focusing on several key determinants of plant growth: atmospheric CO₂, temperature, water availability, and the interactions between these factors. The book demonstrates the variety of techniques used across plant science: detailed physiology in controlled environments, observational studies based on long-term data sets, field manipulation experiments, and modelling. It is directed at advanced-level university students, researchers, and professionals across the range of plant science disciplines, including plant physiology, plant ecology, and crop science. It will also be of interest to earth system scientists.

Plant Nutritional Genomics Martin R. Broadley, Philip J. White, 2009-02-05 A textbook, plant typically comprises about 85% water and 13.5% carbohydrates. The remaining fraction contains at least 14 mineral elements without which plants would be unable to complete their life cycles. Understanding plant nutrition and applying this knowledge to practical use is important for several reasons. First, an understanding of plant nutrition allows fertilisers to be used more wisely. Second, the nutritional composition of crops must be tailored to meet the health of humans and livestock. Third, many regions of the world are currently unsuitable for crop production, and an understanding of plant nutrition can be used to develop strategies either for the remediation of this land or for the cultivation of novel crops. That application of knowledge of plant nutrition can be achieved through genotypic or agronomic approaches. Genotypic approaches based on crop selection and/or breeding, conventional or GM, have recently begun to benefit from technological advances, including the completion of plant genome sequencing projects. This book provides an overview of how plant nutritional genomics, defined as the interaction between a plant's genome and its nutritional characteristics, has developed in the light of these technological advances and how this new knowledge might usefully be applied. This is a book for researchers and professionals in plant molecular genetics, biochemistry, and physiology in both the academic and industrial sectors.

Gene Flow from GM Plants Guy M. Poppy, Michael J. Wilkinson, 2008-04-15 Gene flow is not unique to genetically modified GM crops, but the possibility of the spread of transgenic DNA to wild and domesticated relatives raises a new set of issues for scientists and policymakers to consider. Unfortunately, we are still too often unable to quantify the risks of ecological damage associated with gene flow. This is due partly to the

huge breadth of knowledge required to assemble a comprehensive risk assessment. For example, many scientists active in research on the mechanics of gene flow nevertheless lack a deep understanding of what is required to identify, characterise and assess ecological risk, and many of those who are aware of the risk assessment process and the framework used for legislation have insufficient knowledge of the reproductive biology, agricultural systems modelling and ecological literature required to compile a balanced risk assessment. This book, set in the context of gene flow in general, considers the assessment, measurement and management of the risks of gene flow from GM plants, combining the expertise of all the various stakeholders. It is directed at researchers and professionals in plant molecular genetics and plant ecology in both the academic and industrial sectors. [Antioxidants and Reactive Oxygen Species in Plants](#) Nicholas Smirnoff, 2008-04-15

Reactive oxygen species (ROS) are produced during the interaction of metabolism with oxygen. As ROS have the potential to cause oxidative damage by reacting with biomolecules, research on ROS has concentrated on the oxidative damage that results from exposure to environmental stresses and on the role of ROS in defence against pathogens. However, more recently it has become apparent that ROS also have important roles as signalling molecules. A complex network of enzymatic and small molecule antioxidants controls the concentration of ROS and repairs oxidative damage, and research is revealing the complex and subtle interplay between ROS and antioxidants in controlling plant growth, development and response to the environment. This book covers these new developments, generally focussing on molecular and biochemical details and providing a point of entry to the detailed literature. It is directed at researchers and professionals in plant molecular biology, biochemistry and cell biology in both the academic and industrial sectors. *Plant Abiotic Stress* Matthew A. Jenks, Paul M. Hasegawa, 2008-04-15. Over the past decade, our understanding of plant adaptation to environmental stress has grown considerably. This book focuses on stress caused by the inanimate components of the environment associated with climatic, edaphic and physiographic factors that substantially limit plant growth and survival. Categorically, these are abiotic stresses which include drought, salinity, non-optimal temperatures and poor soil nutrition. Another stress, herbicides, is covered in this book to highlight how plants are impacted by abiotic stress originating from anthropogenic sources. The book also addresses the high degree to which plant responses to quite diverse forms of environmental stress are interconnected, describing the ways in which the plant utilizes and integrates many common signals and subsequent pathways to cope with less favorable conditions. The book is directed at researchers and professionals in plant physiology, cell biology and molecular biology in both the academic and industrial sectors. **Production Practices and Quality Assessment of Food Crops** Ramdane Dris, S. Mohan Jain, 2007-05-08

We can not talk about commodity production without building up all the operations after harvest. It is possible to market the products just after harvest, but it is only possible in small quantities. Postharvest handling is the ultimate stage in the process of producing quality fresh fruits and vegetables, getting these unique packages of water-fresh commodities to the supper table. Fresh fruits and vegetables are susceptible to a number of postharvest diseases and

disorders and the postharvest operations are predominately aimed at maintaining harvest quality Every step in the handling chain can influence the extent of disease and quality of the stored product From planting to consumption there are many opportunities for bacteria viruses and parasites to contaminate produce or nutrient deficiency level causing physiological disorders Most of the storage rots are diseases that have originated in the field and have carried over onto commodities after harvest Physiological disorders also arise from poor handling between harvest storage and marketing Treatments have a direct effect on inactivating or outright killing germinating spores thus minimising rots Prestorage treatment appears to be a promising method of postharvest control of decay Pre or postharvest treatments of commodities are considered as potential alternatives for reducing the incidence of diseases disorders desinfestation of quarantine pests and for preserving food quality Postharvest treatments lead to an alteration of gene expression and fruit ripening can sometimes be either delayed or disrupted

The Biology of Horticulture John E. Preece, Paul E. Read, 2005-01-13 This comprehensive book provides a thorough scientific foundation on the growth and care of plants common to all horticultural commodities Continuing in the tradition of the first edition it incorporates the principles behind the techniques described in other how to horticulture texts By providing readers with a thorough grounding in the science of horticulture it successfully prepares them for more specialized studies in nursery management floriculture landscaping vegetable and fruit science

Postharvest Technology of Perishable Horticultural Commodities Elhadi M. Yahia, 2019-07-16 Postharvest Technology of Perishable Horticultural Commodities describes all the postharvest techniques and technologies available to handle perishable horticultural food commodities It includes basic concepts and important new advances in the subject Adopting a thematic style chapters are organized by type of treatment with sections devoted to postharvest risk factors and their amelioration Written by experts from around the world the book provides core insights into identifying and utilizing appropriate postharvest options for maximum results Presents the most recent developments in processing technologies in a single volume Includes a wide range of perishable products thus allowing for translational insight Appropriate for students and professionals Written by experts as a reference resource

Plant Molecular Breeding H. John Newbury, 2009-02-18 The last few years have seen an explosion of new information and resources in the areas of plant molecular genetics and genomics As a result of developments such as high throughput sequencing we now have huge amounts of information available on plant genes But how does this help people charged with the task of improving crop species to create products with altered functions or improved characteristics This volume considers ways in which the new information resources and technology can be exploited by the plant breeder Examples in current use will be quoted wherever possible

The Peach Desmond R. Layne, Daniele Bassi, 2008 Summarizes our knowledge of peaches and their production worldwide and includes a colour plates section This book includes chapters which address botany and taxonomy breeding and genetics of cultivars and rootstocks propagation physiology and planting systems crop and pest management and postharvest physiology

The Engaging Realm of E-book Books: A Thorough Guide Revealing the Advantages of E-book Books: A World of Ease and Flexibility E-book books, with their inherent portability and simplicity of availability, have freed readers from the constraints of hardcopy books. Gone are the days of lugging cumbersome novels or carefully searching for particular titles in shops. Kindle devices, stylish and lightweight, effortlessly store an extensive library of books, allowing readers to immerse in their preferred reads whenever, everywhere. Whether traveling on a bustling train, lounging on a sun-kissed beach, or just cozying up in bed, Kindle books provide an unparalleled level of convenience. A Literary Universe Unfolded: Exploring the Wide Array of E-book Fruit Quality And Its Biological Basis Fruit Quality And Its Biological Basis The E-book Store, a digital treasure trove of literary gems, boasts an extensive collection of books spanning diverse genres, catering to every readers taste and preference. From gripping fiction and mind-stimulating non-fiction to timeless classics and modern bestsellers, the Kindle Shop offers an exceptional abundance of titles to discover. Whether seeking escape through immersive tales of imagination and exploration, delving into the depths of historical narratives, or broadening ones knowledge with insightful works of scientific and philosophical, the Kindle Store provides a doorway to a bookish world brimming with endless possibilities. A Revolutionary Factor in the Literary Scene: The Lasting Impact of E-book Books Fruit Quality And Its Biological Basis The advent of Kindle books has unquestionably reshaped the bookish landscape, introducing a model shift in the way books are published, disseminated, and consumed. Traditional publication houses have embraced the digital revolution, adapting their approaches to accommodate the growing need for e-books. This has led to a rise in the accessibility of Kindle titles, ensuring that readers have access to a vast array of bookish works at their fingertips. Moreover, Kindle books have equalized access to books, breaking down geographical limits and providing readers worldwide with equal opportunities to engage with the written word. Regardless of their location or socioeconomic background, individuals can now immerse themselves in the intriguing world of literature, fostering a global community of readers. Conclusion: Embracing the E-book Experience Fruit Quality And Its Biological Basis E-book books Fruit Quality And Its Biological Basis, with their inherent convenience, versatility, and vast array of titles, have certainly transformed the way we experience literature. They offer readers the freedom to discover the boundless realm of written expression, whenever, anywhere. As we continue to navigate the ever-evolving online scene, Kindle books stand as testament to the enduring power of storytelling, ensuring that the joy of reading remains accessible to all.

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Table of Contents Fruit Quality And Its Biological Basis

1. Understanding the eBook Fruit Quality And Its Biological Basis
 - The Rise of Digital Reading Fruit Quality And Its Biological Basis
 - Advantages of eBooks Over Traditional Books
2. Identifying Fruit Quality And Its Biological Basis
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fruit Quality And Its Biological Basis
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fruit Quality And Its Biological Basis
 - Personalized Recommendations
 - Fruit Quality And Its Biological Basis User Reviews and Ratings
 - Fruit Quality And Its Biological Basis and Bestseller Lists
5. Accessing Fruit Quality And Its Biological Basis Free and Paid eBooks
 - Fruit Quality And Its Biological Basis Public Domain eBooks
 - Fruit Quality And Its Biological Basis eBook Subscription Services
 - Fruit Quality And Its Biological Basis Budget-Friendly Options
6. Navigating Fruit Quality And Its Biological Basis eBook Formats
 - ePub, PDF, MOBI, and More
 - Fruit Quality And Its Biological Basis Compatibility with Devices
 - Fruit Quality And Its Biological Basis Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fruit Quality And Its Biological Basis
 - Highlighting and Note-Taking Fruit Quality And Its Biological Basis
 - Interactive Elements Fruit Quality And Its Biological Basis

8. Staying Engaged with Fruit Quality And Its Biological Basis
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fruit Quality And Its Biological Basis
9. Balancing eBooks and Physical Books Fruit Quality And Its Biological Basis
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fruit Quality And Its Biological Basis
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fruit Quality And Its Biological Basis
 - Setting Reading Goals Fruit Quality And Its Biological Basis
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fruit Quality And Its Biological Basis
 - Fact-Checking eBook Content of Fruit Quality And Its Biological Basis
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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