

# New Fruits From An Old Field

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World Illustrated Berry Fruit Transactions The Garden Control of Ripening of Avocado

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plant fruits are important from a biological nutritional and economic perspective fruits are primary sources of minerals vitamins sugars organic acids proteins and pigments among other nutrient compounds for animals and humans and there exist a vast variety of forms

sizes and flavors produced by plants since fruit biological function is determined through the expression of specific genes it is important to identify and characterize those genes involved in each developmental and ripening stage which can be achieved using transcriptomic approaches

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

set includes revised editions of some issues

a comprehensive and entertaining historical and botanical review providing an enjoyable and cognitive read nature the foods we eat have a deep and often surprising past from almonds and apples to tea and rice many foods that we consume today have histories that can be traced out of prehistoric central asia along the tracks of the silk road to kitchens in europe america china and elsewhere in east asia the exchange of goods ideas cultural practices and genes along these ancient routes extends back five thousand years and organized trade along the silk road dates to at least han dynasty china in the second century bc balancing a broad array of archaeological botanical and historical evidence fruit from the sands presents the fascinating story of the origins and spread of agriculture across inner asia and into europe and east asia through the preserved remains of plants found in archaeological sites robert n spengler iii identifies the regions where our most familiar crops were domesticated and follows their routes as people carried them around the world with vivid examples fruit from the sands explores how the foods we eat have shaped the course of human history and transformed cuisines all over the globe

valued for its unique flavors textures and colors berry fruit is a rapidly growing crop that provides significant health benefits due to its many bioactive components berry fruit value added products for health promotion provides an understanding of the functional chemicals shelf life and microbial safety concerns and applications in the food industry written by international experts each chapter presents scientific background research results critical reviews of relevant issues and case studies chapters include worldwide production information bioactive food constituents and their potential health benefits methods of enhancing food quality and potential uses of berry processing by products

the proceedings are primarily for the publication of results of original research on horticultural plants and their products and original papers which present helpful new

approaches to teaching and extension problems in horticulture

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