

Kalliopi A. Roumelakis-Angelaki  
Editor

# Grapevine Molecular Physiology & Biotechnology



Springer

# Grapevine Molecular Physiology Biotechnology

**A. Rashid**



## **Grapevine Molecular Physiology Biotechnology:**

**Grapevine Molecular Physiology & Biotechnology** Kalliopi A. Roubelakis-Angelakis, 2009-06-04 Grapevine is one of the most widely cultivated plant species worldwide With the publication of the grapevine genome sequence in 2007 a new horizon in grapevine research has unfolded Thus we felt that a new edition of Molecular Biology Biotechnology of the Grapevine could expand on all the latest scientific developments In this edition and with the aid of 73 scientists from 15 countries ten chapters describe new aspects of Grapevine Molecular Physiology and Biotechnology and eleven chapters have been revised and updated This book is intended to be a reference book for researchers scientists and biotechnological companies who want to be updated in viticultural research but also it can be used as a textbook for graduate and undergraduate students who are interested in the Molecular Biology and Biotechnology of Plants with an emphasis on the Grapevine

**Methodologies and Results in Grapevine Research** Serge Delrot, Hipólito Medrano, Etti Or, Luigi Bavaresco, Stella Grando, 2010-10-19 Grapevine is a crop of major economical interest and wine represents a multicultural heritage which has been growing since several milleniums Yet modern viticulture must face several challenges Global climate has increased berry sugar content and alcohol in the wine whereas phenolic and aromatic ripeness are not always achieved Water supply is becoming shorter New varieties better adapted to new climatic conditions might have to be planted which may affect wine typicity Phytochemical treatments are more controlled and the consumer pays increasing attention to environmentally safe practices New methods reducing pesticide use but maintaining yield and typicity must be designed The present book illustrates the recent progress made in ecophysiology molecular and cell biology and pathology of grapevine as well as in precision viticulture and berry composition Combination of these new tools with field observations will undoubtedly make it easier to face the challenges described above These multidisciplinary contributions will be of interest to anyone involved in grapevine and wine activities

**The Science of Grapevines** Markus Keller, 2025-02-19 Fully revised and updated The Science of Grapevines Fourth Edition is an introduction to the physical structure of the grapevine its organs their functions and their interactions with the environment Scientifically grounded and integrating discoveries in other plant species it explores the physiological processes underlying grapevine form and function their developmental and environmental control and their implications for practical vineyard management The book begins with a brief overview of the botanical classification plant morphology and anatomy and growth cycles of grapevines It then covers the basic concepts in growth and development water relations photosynthesis and respiration mineral uptake and utilization and carbon partitioning Then these concepts are put to use to understand plant environment interactions including canopy dynamics yield formation and fruit composition The book concludes with an introduction to stress physiology including water and nutrient stresses extreme temperatures and the interaction with other organisms Progress in the fields of grape cultivar evolution grape ripening and stress physiology has been rapid since edition 3 was published in 2020 Edition four reflects the

latest insights into these and other key aspects of grapevine anatomy and physiology Based on the author s more than 30 years of teaching research and practical experience with grapevines and grape production this book provides an important guide to understanding this fascinating and economically important plant As a textbook for students and a reference for scientists and industry professionals the book enables readers to use the discussed scientific concepts in their own research or practical production systems Connects the science from initial decision making processes through plant cultivation to harvest and processing Enables prediction of the consequences of actions in the vineyard and the diagnosis and mitigation of potential problems before they threaten the sustainability of grape production Includes specific insights on canopy environment interactions yield formation sources of variation in fruit composition and environmental constraints Step Wise Protocols for Somatic Embryogenesis of Important Woody Plants Shri Mohan Jain, Pramod Gupta, 2018-05-30 World population is increasing at an alarming rate and this has resulted in increasing tremendously the demand for tree products such as wood for construction materials fuel and paper fruits oils and medicines etc This has put immense pressure on the world s supplies of trees and raw material to industry and will continue to do so as long as human population continues to grow Also the quality of human diet especially nutritional components is adversely affected due to limited genetic improvement of most of fruit trees Thus there is an immediate need to increase productivity of trees Improvement has been made through conventional breeding methods however conventional breeding is very slow due to long life cycle of trees A basic strategy in tree improvement is to capture genetic gain through clonal propagation Clonal propagation via organogenesis is being used for the production of selected elite individual trees However the methods are labour intensive costly and produce low volumes Genetic gain can now be captured through somatic embryogenesis Formation of embryos from somatic cells by a process resembling zygotic embryogenesis is one of the most important features of plants In 1958 Reinert in Germany and Steward in USA independently reported somatic embryogenesis in carrot cultures Since then tremendous progress in somatic embryogenesis of woody and non woody plants has taken place It offers a potentially large scale propagation system for superior clones **Ome-wide Studies of Grapevine Fruit Composition and Responses to Agro-environmental Factors in the Era of Systems Biology** José Tomás Matus, Simone Diego Castellarin, Giovanni Battista Tornielli, 2019-12-06 Fruits play a substantial role in the human diet as a source of vitamins minerals dietary fiber and a wide range of molecules relevant to health promotion and disease prevention The characterization of genes involved in the accumulation of these molecules during fruit development and ripening and in the overall plant s response to the environment constitutes a fundamental step for improving yield and quality related traits and for predicting this crop s behavior in the field This is certainly the case for grapevine *Vitis vinifera* L one of the most largely cultivated fruit crops in the world The cultivation of this species is facing challenging scenarios driven by climate change including increases in atmospheric carbon dioxide CO<sub>2</sub> solar radiation and earth surface temperature and decreases of water and nutrient

availability All these events will potentially affect the grapevine phenology physiology and metabolism in many growing regions and ultimately affect the quality of their fruits and of the most important derived product the wine The sequencing of the grapevine genome has given rise to a new era characterized by the generation of large scale data that requires complex computational analyses Numerous transcriptomic and metabolomic studies have been performed in the past fifteen years providing insights into the gene circuits that control the accumulation of all sorts of metabolites in grapevines From now on the integration of two or more omics will allow depicting gene transcript metabolite networks from a more holistic i e systems perspective This eBook attempts to support this new direction by gathering innovative studies that assess the impact of genotypes the environment and agronomical practices on fruits at the ome scale The works hereby collected are part of a Research Topic covering the use of omics driven strategies to understand how environmental factors and agronomical practices including microclimate modification e g sunlight incidence or temperature water availability and irrigation and postharvest management affect fruit development and composition These studies report well settled transcriptomic and metabolomic methods in addition to newly developed techniques addressing proteome profiles genome methylation landscapes and ionomic signatures some of which attempt to tackle the influence of terroir i e the synergic effect of micro climate soil composition grape genotype and vineyard practices A few reviews and opinions are included that focus on the advantages of applying network theory in grapevine research Studies on vegetative organs in their relation to fruit development and on fruit derived cell cultures are also considered

**Integrative Approaches to Biotechnology** Atul Bhargava, Shilpi Srivastava, 2023-09-29 Biotechnology is one of the fastest emerging fields that has attracted attention of conventional biologists biochemists microbiologists medical and agricultural scientists The coming decades are likely to witness a boom in biotechnology which is expected to surpass information technology as the new engine of the global economy Biotechnology is experiencing a revolution that will affect every facet of our lives from crop improvement to commerce drugs and sustainable development New approaches and a plethora of information available at a frantic pace demands its dissemination to the scientific community The current book has been written with the specific objective of providing information on the recent developments in biotechnology to the readers The proposed book presents a multidisciplinary approach to the latest information and developments in biotechnology in an easy to read succinct format The book has been divided into 6 sections and 15 chapters giving an in depth analysis of the latest research and developments in the biotechnological realm The topics have been presented in a lucid easy to read methodical way with illustrations and suitable case studies to provide additional help and clarity The authors have tried to present state of the art and integrative information in a manner that familiarizes the reader with the important concepts and tools of recent biotechnological studies Apart from biotechnological personnel the book would also be useful for readers of diverse disciplines such as bioinformatics agriculture environmental science pharmaceutical sciences biochemistry and general

biology Features A systematic overview of the recent state of the art technologies Novel contents with maximum coherence Extensive use of examples and case studies to illustrate how each technique has been used in practice Incorporation of the latest information on these topics from recent research papers This book serves as a reference book and presents information in an accessible way for students researchers and scientific investigators in biotechnology It may also be used as a textbook for postgraduate level courses in biological sciences

**Genetic Transformation** María Alvarez,2011-09-06 Genetic transformation of plants has revolutionized both basic and applied plant research Plant molecular biology and physiology benefit from this power tool as well as biotechnology This book is a review of some of the most significant achievements that plant transformation has brought to the fields of Agrobacterium biology crop improvement and flower fruit and tree amelioration Also it examines their impact on molecular farming phytoremediation and RNAi tools

*Molecular Physiology and Biotechnology of Flowering Plants* A. Rashid,2009 With the advent of transgene technology plant physiology over the last ten years has undergone a sea change and there is a need to rewrite Molecular Physiology and Biotechnology of Flowering Plants attempts to provide an up-to-date account The first chapter Seed Germination and Seedling Beginning of an Establishment discusses light and hormonal control of these processes followed by chapters on vegetative and reproductive phases of plants In Vegetative Phase novel concepts such as Stem cell and Determination of Cell fate and conceptual changes concerning apical dominance and stomatal physiology followed by Reproductive Phase where floral evocation floral stimulus and gene expression during flowering are discussed

Plant Transformation Horacio Esteban Hopp,Luis Herrera-Estrella,German Spangenberg,2022-05-10

**Journal of Grapevine Research** ,2019 A Natural History of Wine Ian Tattersall,Rob DeSalle,2015-11-28 Wine is art Wine is ritual Wine is culture Wine is romance But in the hands of Tattersall and DeSalle we learn that wine is also science Neil deGrasse Tyson A Wall Street Journal Best Book for Wine Lovers An excellent bottle of wine can be the spark that inspires a brainstorming session Such was the case for Ian Tattersall and Rob DeSalle scientists who frequently collaborate on book and museum exhibition projects When the conversation turned to wine one evening it almost inevitably led the two one a palaeoanthropologist the other a molecular biologist to begin exploring the many intersections between science and wine This book presents their fascinating freewheeling answers to the question What can science tell us about wine And vice versa Conversational and accessible to everyone this colorfully illustrated book embraces almost every imaginable area of the sciences from microbiology and ecology for an understanding of what creates this complex beverage to physiology and neurobiology for insight into the effects of wine on the mind and body The authors draw on physics chemistry biochemistry evolution and climatology and they expand the discussion to include insights from anthropology primatology entomology Neolithic archaeology and even classical history The resulting volume is indispensable for anyone who wishes to appreciate wine to its fullest Chemistry Evolutionary biology Genetics This book is an excellent layman's refresher on these diverse topics and many more and how they fit into the grand scheme of

wine A fact packed and accessible read that goes a long way toward explaining why and how wine became such an important component in our enjoyment of the natural world Wine Spectator *Proceedings of the VIIth International Symposium on Grapevine Physiology and Biotechnology* Larry Edward Williams,2005 **American Journal of Enology and Viticulture** ,2017 *The Grapevine* ,2001 **FPS Grape Program Newsletter** ,2003 **Angewandte Botanik** ,2006 PGR ,2003 Grape Berry Cellular Turgor Tyler Thomas,2004 *Abiotic Stress Effects on the Grapevine (Vitis Vinifera L.) Canopy's Carbon Balance and Metabolic Profile of Flavonoids in Berries* Alberto Blas Iandolino,2004 **Horticultural Research International** International Society for Horticultural Science,1993 Directory of horticultural research institutes and their activities in 74 countries All countries are mentioned alphabetically and index of names of place index of international organizations and key to countries

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