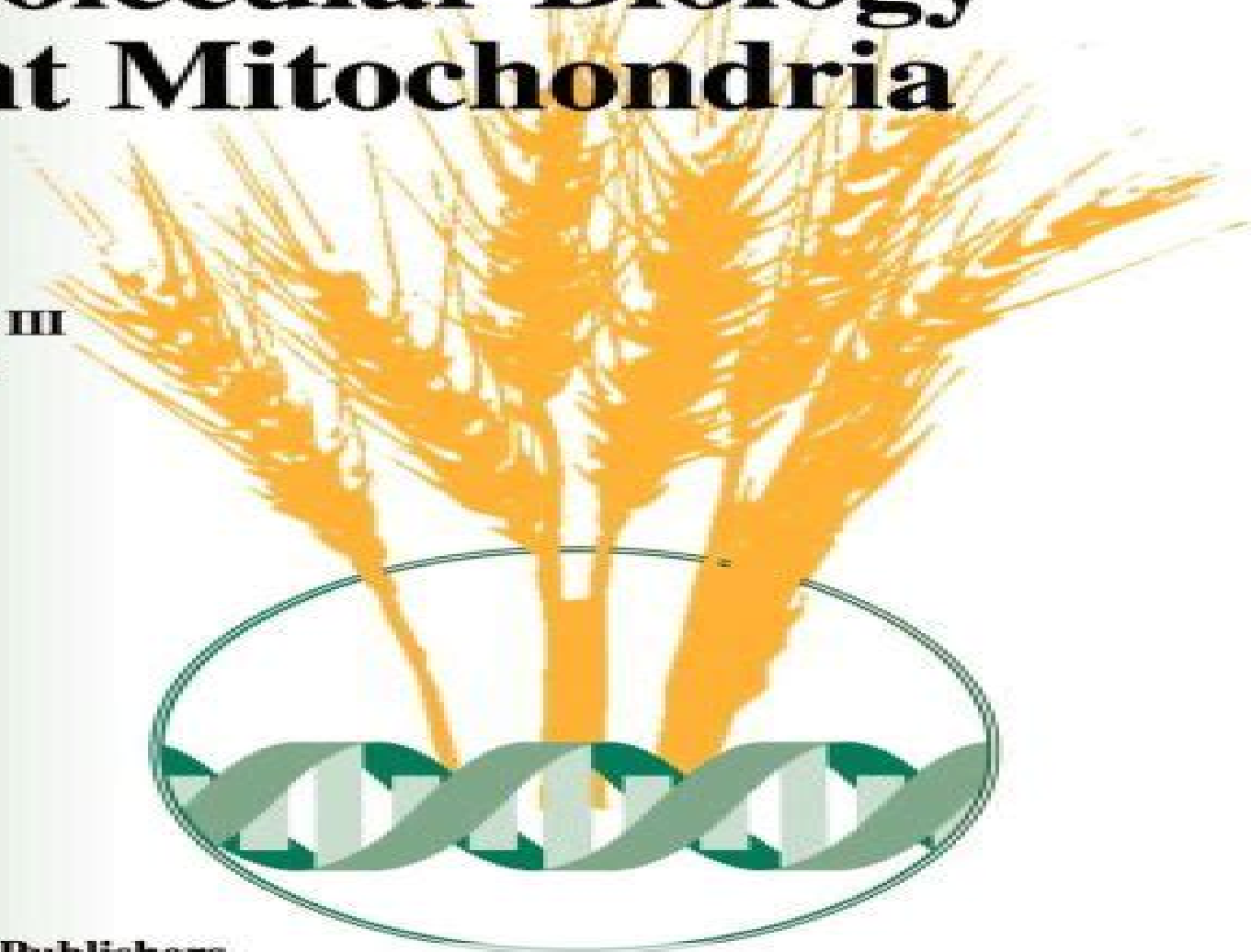


ADVANCES IN CELLULAR AND MOLECULAR BIOLOGY OF PLANTS VOL. 3
Editor-in-Chief: Indra K. Vasil

The Molecular Biology of Plant Mitochondria

**Edited by
Charles S. Levings III
and Indra K. Vasil**



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Molecular Biology Of Plant Mitochondria:

Plant Mitochondria: From Genome to Function David Day, A. Harvey Millar, James Whelan, 2013-11-09 Mitochondria in plants as in other eukaryotes play an essential role in the cell as the major producers of ATP via oxidative phosphorylation. However, mitochondria also play crucial roles in many other aspects of plant development and performance and possess an array of unique properties which allow them to interact with the specialized features of plant cell metabolism. The two main themes running through the book are the interconnection between gene regulation and protein function and the integration of mitochondria with other components of plant cells. The book begins with an overview of the dynamics of mitochondrial structure, morphology and inheritance. It then discusses the biogenesis of mitochondria, the regulation of gene expression, the mitochondrial genome and its interaction with the nucleus and the targeting of proteins to the organelle. This is followed by a discussion of the contributions that mutations involving mitochondrial proteins have made to our understanding of the way the organelle interacts with the rest of the plant cell and the new field of proteomics and the discovery of new functions. Also covered are the pathways of electron transport with special attention to the non-phosphorylating bypasses, metabolite transport and specialized mitochondrial metabolism. In the end, the impact of oxidative stress on mitochondria and the defense mechanisms that are employed to allow survival are discussed. This book is for the use of advanced undergraduates, graduates, postgraduates and beginning researchers in the areas of molecular and cellular biology, integrative biology, biochemistry, bioenergetics, proteomics and plant and agricultural sciences. The molecular biology of plant mitochondria Charles S. Levings, III, Indra K. Vasil, 2014-09-12 The double helix architecture of DNA was elucidated in 1953. Twenty years later, in 1973, the discovery of restriction enzymes helped to create recombinant DNA molecules in vitro. The implications of these powerful and novel methods of molecular biology and their potential in the genetic manipulation and improvement of microbes, plants and animals became increasingly evident and led to the birth of modern biotechnology. The first transgenic plants, in which a bacterial gene had been stably integrated, were produced in 1983 and by 1993 transgenic plants had been produced in all major crop species, including the cereals and the legumes. These remarkable achievements have resulted in the production of crops that are resistant to potent but environmentally safe herbicides or to viral pathogens and insect pests. In other instances, genes have been introduced that delay fruit ripening or increase starch content or cause male sterility. Most of these manipulations are based on the introduction of a single gene, generally of bacterial origin, that regulates an important monogenic trait into the crop of choice. Many of the engineered crops are now under field trials and are expected to be commercially produced within the next few years. The early successes in plant biotechnology led to the realization that further molecular improvement of plants will require a thorough understanding of the molecular basis of plant development and the identification and characterization of genes that regulate agronomically important multigenic traits. **Molecular Biology and Biotechnology of Plant Organelles** Henry Daniell, Christine D. Chase, 2004 Plant organelles have intrigued

biologists since the discovery of their endosymbiotic origin and maternal inheritance The first application of organelle biotechnology was the role of cytoplasmic male sterility in hybrid seed production and Green Revolution In modern times plant organelles are again leading the way for the creation of genetically modified crops On a global scale 75% of GM crops are engineered for herbicide resistance and most of these herbicides target pathways that reside within plastids Several thousand proteins are imported into chloroplasts that participate in biosynthesis of fatty acids amino acids pigments nucleotides and numerous metabolic pathways including photosynthesis Thus from green revolution to golden rice plant organelles have played a critical role in revolutionizing agriculture This book details not only basic concepts and current understanding of plant organelle genetics and molecular biology but also focuses on the synergy between basic biology and biotechnology Forty four authors from nine countries have contributed twenty four chapters containing many figures and tables Section 1 on organelle genomes and proteomes discusses molecular features of plastid and mitochondrial genomes evolutionary origins somatic and sexual inheritance proteomics bioinformatics and functional genomics Section 2 on organelle gene expression and signalling discusses transcription translation RNA processing editing introns and splicing protein synthesis proteolysis import of proteins into chloroplast and mitochondria and their regulation Section 3 on organelle biotechnology discusses chloroplast and nuclear genetic engineering for biotic abiotic stress tolerance improved fatty acid amino acid biosynthesis biopharmaceuticals biopolymers and biomaterials cytoplasmic male sterility for hybrid seed production plant improvement and restoration of fertility This book is designed to serve as a comprehensive volume and reference guide for teachers advanced undergraduates and graduate students and researchers in plant molecular biology and biotechnology

Plant Mitochondria Axel Brennicke, H.-U. Kück, 1993 **Mitochondrial Genome Evolution**, 2012-11-27 Advances in Botanical Research publishes in depth and up to date reviews on a wide range of topics in plant sciences Features a wide range of reviews by recognized experts on all aspects of plant genetics biochemistry cell biology molecular biology physiology and ecology This thematic volume features reviews on Mitochondrial genome evolution Publishes in depth and up to date reviews on a wide range of topics in plant sciences Features a wide range of reviews by recognized experts on all aspects of plant genetics biochemistry cell biology molecular biology physiology and ecology This thematic volume features reviews on mitochondrial genome evolution **Mitochondria in Higher Plants** Roland Douce, 2012-12-02 Mitochondria in Higher Plants Structure Function and Biogenesis is a collection and interpretation of information on plant mitochondria It explains not only the basic enzymology of ATP synthesis coupled to electron transport that seems to constitute the major activity of the mitochondria but also many other aspects that make plant mitochondria rather more diverse than their animal counterparts Organized into five chapters this book begins with the morphological and cytological observations on mitochondria and proceeding through membrane and matrix functions to participation in metabolism and biogenesis Each section presents the unique properties of plant mitochondria within the framework of

general mitochondrial structure and function This book is intended not only for research workers and students interested in the enzymology of plant mitochondria respiration but also for graduate and undergraduate students in the field of plant biochemistry cell physiology and molecular biology It will be useful as a starting point for those students wishing to pursue special studies in this field *Plant Mitochondria* James Whelan, Monika W. Murcha, 2015-04-25 The chapters compiled in this detailed collection outline a number of methods used to study plant mitochondria today starting from the isolation of mitochondria to detailed analyses of RNA protein and enzymatic activities Given that the ability to uncover mitochondria's unique features is underpinned by current methodology this book explores the subject from morphology to detailed molecular mechanisms Written in the highly successful *Methods in Molecular Biology* series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Practical and authoritative *Plant Mitochondria Methods and Protocols* serves as a vital resource to beginners in the field as well as to expert researchers who find themselves being pulled into the field of mitochondrial research as it links to so many important aspects of plant cell biology

Plant Physiology, Biochemistry, and Molecular Biology David T. Dennis, David H. Turpin, 1990 *Genomics of Chloroplasts and Mitochondria* Ralph Bock, Volker Knoop, 2012-06-05 The past decade has witnessed an explosion of our knowledge on the structure coding capacity and evolution of the genomes of the two DNA containing cell organelles in plants chloroplasts plastids and mitochondria Comparative genomics analyses have provided new insights into the origin of organelles by endosymbioses and uncovered an enormous evolutionary dynamics of organellar genomes In addition they have greatly helped to clarify phylogenetic relationships especially in algae and early land plants with limited morphological and anatomical diversity This book written by leading experts summarizes our current knowledge about plastid and mitochondrial genomes in all major groups of algae and land plants It also includes chapters on endosymbioses plastid and mitochondrial mutants gene expression profiling and methods for organelle transformation The book is designed for students and researchers in plant molecular biology taxonomy biotechnology and evolutionary biology **Annual Plant Reviews, Plant Mitochondria** David C. Logan, 2007-10-22 Mitochondria are critical organelles in the metabolic regulation of almost all eukaryotic organisms Knowledge of their biochemistry and molecular biology in plants has been fuelled over recent years by the rapid progress made in genome sequencing and the ability to manipulate gene expression *Plant Mitochondria* contains chapters written by many of the world's leading researchers in this area bringing together and reviewing for the first time many recent advances Contents include coverage of mitochondrial dynamics mitochondrial genome instability expression of the plant mitochondrial genome import of nuclear encoded mitochondrial proteins mitochondrial respiratory complex biogenesis supramolecular structure of the OXPHOS system mitochondrial electron transport and oxidative stress mitochondrial metabolism cytoplasmic male sterilities and mitochondrial gene mutations and the mitochondrion in

plant programmed cell death **Plant Mitochondria** is an extremely important and timely addition to Blackwell Publishing's Annual Plant Reviews series. David Logan, well known and respected internationally for his work in this area, has brought together a truly valuable volume of great use and interest to plant scientists, cell and molecular biologists, and biochemists. Libraries in all universities and research establishments where biological sciences are studied and taught should have copies of this important book on their shelves.

Plant Mitochondria Frank Kempken, 2010-11-22 Mitochondria are the product of a long evolutionary history. It is now a well established fact that mitochondria did evolve from free living bacteria being the common ancestor of both eukaryotic mitochondria and proteobacteria. Advances in genome sequencing, the establishment of in organello and in vitro assays to name only a few, contributed significantly to advances in plant mitochondrial research. Second generation sequencing and the ability to directly sequence and analyse the whole plant transcriptome certainly will help to develop the research on plant mitochondria to another level in the future. In this book, the current knowledge about plant mitochondria is presented in a series of detailed chapters which have been organized in five main sections: i) dynamics, genes and genomes; ii) transcription and RNA processing; iii) translation and import; iv) biochemistry, regulation and function; and v) mitochondrial dysfunction and repair. These sections consist of two to five chapters each, written by well known specialists in the field. This book thus provides a comprehensive inside in the field of plant mitochondria for the specialist. The addition of a glossary and text boxes to each chapter provides easy access for readers from other subjects and hopefully will attract young scientists to the fascinating and exiting field of plant mitochondria.

The Molecular Biology of Chloroplasts and Mitochondria in Chlamydomonas J.-D. Rochaix, Michel Goldschmidt-Clermont, Sabeeha Merchant, 1998-07-31 Provides a thorough overview of current research with the green alga *Chlamydomonas* on chloroplast and mitochondrial biogenesis and function with an emphasis on the assembly and structure-function relationships of the constituents of the photosynthetic apparatus. Contributions emphasize the multidisciplinary nature of current research in photosynthesis combining molecular genetics, biochemical, biophysical and physiological approaches. The 36 articles address topics including nuclear genome organization, RNA stability and processing, splicing, translation, protein targeting in the chloroplast, photosystems, pigments, glycerolipids, the ATP synthase and ferredoxin and thioredoxin. Further contributions address new measurement methods for photosynthetic activity in vivo, starch biosynthesis, the responses of *Chlamydomonas* to various stress conditions, nitrogen assimilation and mitochondrial genetics. Annotation copyrighted by Book News Inc. Portland, OR.

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Alternative Respiratory Pathways in Higher Plants Kapuganti Jagadis Gupta, Luis A. J. Mur, Bhagyalakshmi Neelwarne, 2015-06-15 Rapid developments in molecular and systems biology techniques have allowed researchers to unravel many new mechanisms through which plant cells switch over to alternative respiratory pathways. This book is a unique compendium of how and why higher plants evolved alternative respiratory metabolism. It offers a comprehensive review of current research in the biochemistry, physiology, classification, and regulation of plant alternative respiratory pathways from alternative oxidase diversity to functional marker development. The resource provides a broad range of perspectives on the applications of plant respiratory physiology and suggests brand new areas of research. Other key features written by an international team of reputed plant physiologists known for their pioneering contributions to the knowledge of regular and alternative respiratory metabolism in higher plants includes step by step protocols for key molecular and imaging techniques, advises on regulatory options for managing crop yields, food quality, and environment for crop improvement, and enhanced food security covers special pathways which are of key relevance in agriculture, particularly in plant post harvest commodities. Primarily for plant physiologists and plant biologists, this authoritative compendium will also be of great value to postdoctoral researchers working on plant respiration as well as to graduate and postgraduate students and university staff in Plant Science. It is a useful resource for corporate and private firms involved in developing functional markers for breeding programs and controlling respiration for the prevention of post harvest losses in fruit vegetables, cut flowers, and tubers. Agriculture, Rural Development, Food and Drug Administration, and Related Agencies Appropriations for 1998: Testimony of members of Congress and other interested individuals and organizations United States. Congress. House. Committee on Appropriations. Subcommittee on Agriculture, Rural Development, Food and Drug Administration, and Related Agencies, 1997

Genetics Benjamin Pierce, 2004-12-24 Based on the author's more than twenty years of teaching experience, *Genetics: A Conceptual Approach* offers a fresh new way of introducing the major concepts and mechanics of genetics, focusing students on the big picture without overwhelming them with detail.

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