

Mitochondria

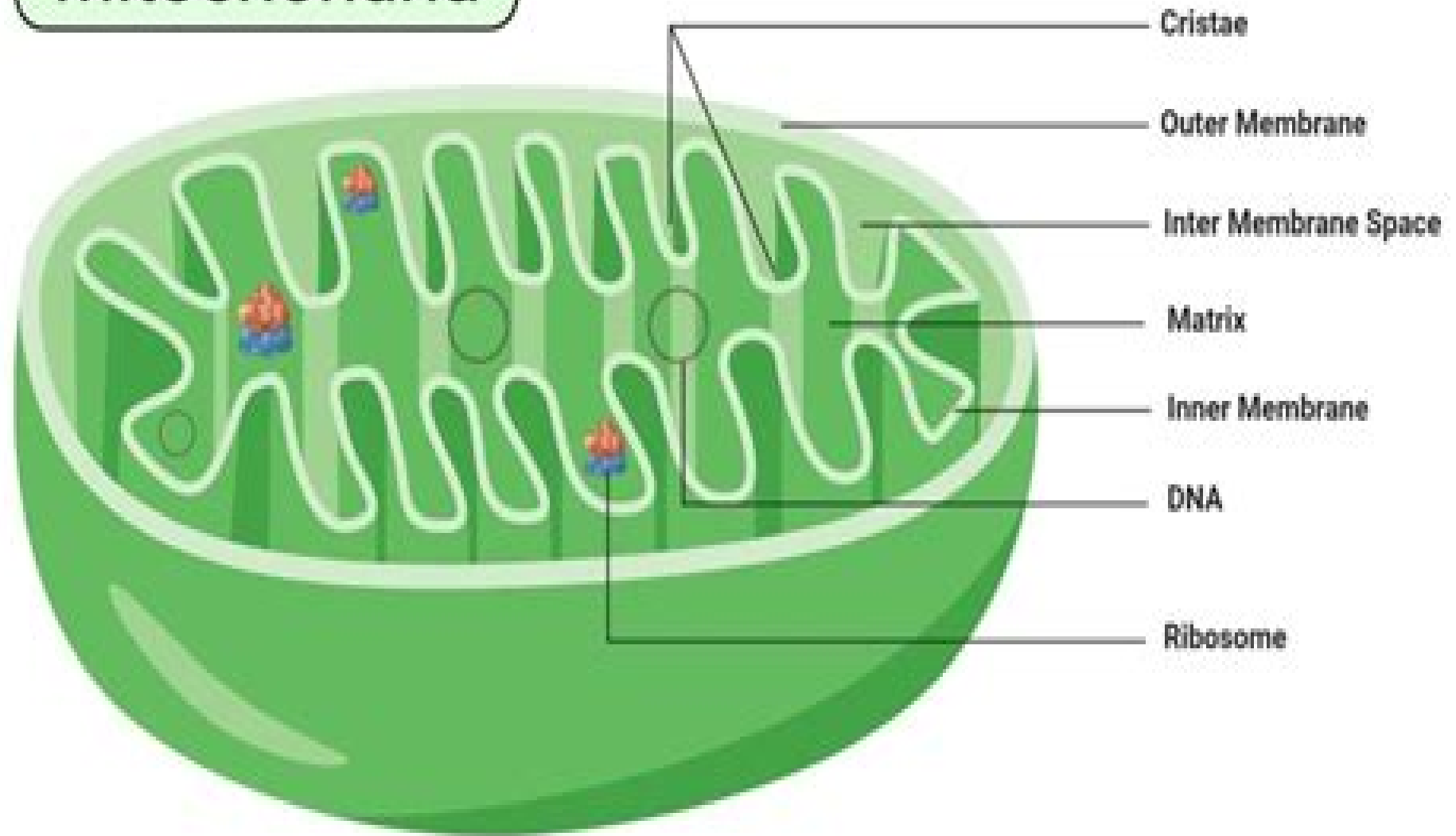


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Plant Mitochondria

Andre Pirson



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. **Plant Mitochondria** Nicolas L. Taylor, 2019-02-19 This book is a printed edition of the Special Issue *Plant Mitochondria* that was published in *IJMS*. [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. **Plant Mitochondria** A. Moore, 2013-11-11 Eight years have elapsed since the first International Meeting on Plant Mitochondria was held in Marseilles. Since this date, numerous important

developments have occurred within the field and hence a further conference on this fundamental area of research was considered well overdue This volume summarises the lecture and poster sessions of the second International Meeting on Plant Mitochondria held in Aberystwyth July 20-24th 1986 The meeting was held not only to bring together plant scientists interested in the bioenergetics of plant mitochondria but also those who are interested in the regulatory role of mitochondria in plant growth and respiration A further important aspect of this conference was to introduce plant physiologists and biochemists to the plant molecular biologists in an attempt to not only discuss problems of mutual interest but to also learn much more about the real questions which the biochemists and physiologists wish to answer Hopefully the volume reflects much of the current excitement and advances being made in the field Although many of the participants of the first meeting were present the expertise of Walter Bonner Jack Hanson and Gaston Ducet to name but a few was sorely missed The conference consisted of forty five minute review lectures followed by thirty minute research lectures the summaries of which are found in the longer articles The meeting was divided into four sessions namely organisation of the electron transport chain mitochondrial interactions mitochondrial biogenesis and plant growth and development

Annual Plant Reviews, Plant Mitochondria David C. Logan, 2018-02-20 This long awaited second edition covers the major changes that have occurred in the field over the last decade Completely revised with the most up to date research and including brand new chapters Annual Plant Reviews Volume 50 Plant Mitochondria 2nd Edition presents the multifaceted roles of mitochondria in plants The book starts with a short history of plant mitochondrial research discusses how coevolution shaped plant mitochondrial gene expression explains control of number shape size and motility of mitochondria delves into stress responses and roles in stress alleviation in mitochondrial biochemistry covers the damage repair pathway of the Calvin Benson cycle and more Containing sections written by many of the world's leading researchers in this area this book brings together and reviews for the first time many recent advances It offers chapters on Bioblasts Cytomikrosomen The Crosstalk Between Genomes The Dynamic Chondriome Metal Homeostasis in Plant Mitochondria RNA Metabolism and Transcript Regulation Mitochondrial Regulation and Signalling in the Photosynthetic Cell Mitochondrial Biochemistry Ecophysiology of Plant Respiration Photorespiration and Mitochondria and Cell Death Annual Plant Reviews Volume 50 Plant Mitochondria 2nd Edition is an extremely important and timely book that will be of great use and interest to plant scientists cell and molecular biologists and biochemists

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 Mitochondria, 2001-05-23 This title employs biochemical cell biological and genetic approaches to study mitochondrial structure function and biogenesis Also of interest are the consequences of impaired mitochondrial function on cells tissues and organs The book is full of step by step how to methods with sample results interpretations and pitfalls There is a unique set of appendices that include gene catalogs mtDNA maps and reagents for probing respiratory chain function Finally there are applications of state of the art microarray and gene chip technologies Isolation of mitochondria from commonly used cells and tissues Assays for mitochondrial activities including respiration ATP production permeability protein import and interactions with the cytoskeleton Biochemical and optical methods for studying protein protein interactions in mitochondria Approaches to studying mitochondrial replication transcription and translation Transmitochondrial technologies Methods in microassay data analysis

Plant Mitochondria Axel Brennicke, Ulrich Kück, 1993-07-29 The book summarizes our current knowledge in the molecular biology of plant mitochondria It covers such topics as RNA editing mitochondrial gene organization and expression protein synthesis and transport cytoplasmic male sterility Specific emphasis is placed on RNA editing Different systems known to date in mitochondria and plastids are compared In addition their connection with the molecular biology involved with the functional analysis is delineated Another major topic is the molecular biology of mitochondrial genomes of cytoplasmic male sterile cms plants The similarities observed in different cms systems not only promote our understanding of those processes which lead to male sterile plants but are also helpful for breeding strategies Concise and timely this book is a unique collaboration of researchers from different fields

Plant Mitochondria Ian Max Møller, 1998

Plant Mitochondria G. Ducet, C. Lance, 1978 Proceedings of the International Symposium on Plant Mitochondria held in Marseille France July 31 August 4 1978

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 Axel Brennicke, H.-U. Kück, 1993. *Bibliography of Agriculture with Subject Index*, 1993-11. Plant Mitochondria Nicolas L. Taylor, 2019. The primary function of mitochondria is respiration where the catabolism of substrates is coupled to ATP synthesis via oxidative phosphorylation. In plants, mitochondrial composition is relatively complex and flexible and has specific pathways to support photosynthetic processes in illuminated leaves. Plant mitochondria also play important roles in a variety of cellular processes associated with carbon, nitrogen, phosphorus, and sulfur metabolism. Research on plant mitochondria has rapidly developed in the last few decades with the availability of the genome sequences for a wide range of model and crop plants. Recent prominent themes in plant mitochondrial research include linking mitochondrial composition to environmental stress responses and how this oxidative stress impacts on the plant mitochondrial function. Similarly, interest in the signaling capacity of mitochondria, the role of reactive oxygen species, and retrograde and anterograde signaling has revealed the transcriptional changes of stress-responsive genes as a framework to define specific signals emanating to and from the mitochondrion. There has also been considerable interest in the unique RNA metabolic processes in plant mitochondria, including RNA transcription, RNA editing, the splicing of group I and group II introns, and RNA degradation and translation. Despite their identification more than 100 years ago, plant mitochondria remain a significant area of research in the plant sciences. This Special Issue, Plant Mitochondria, will cover a selection of recent research topics and timely review articles in the field of plant mitochondrial research. Assessment of the Role of Plant Mitochondrial Respiratory Complexes in Cytoplasmic Male Sterility and Structural Analysis of Plant Cytochrome C Oxidase Wendy Eileen Peiffer, 1992.

Organization and Expression of Plant Mitochondrial Deoxyribonucleic Acids David Benjamin Stern, 1985.

Annual Plant Reviews, Plant Mitochondria David C. Logan, 2007-04-30. 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 **General Index** Andre Pirson, 1993-10-21 With about 50 000 entries and subentries this General Index covers all 25 Volumes and Parts of the well known ENCYCLOPEDIA OF PLANT PHYSIOLOGY NEW SERIES Meticulously compiled by one person the editor of the series the index guarantees homogeneous criteria in the selection of all entries In addition to the entries and for easy reference the tables of contents of all volumes in the series are also listed This index makes the entire field of plant physiology accessible to all researchers and teachers

The Biological Bulletin Frank Rattry Lillie, Carl Richard Moore, Alfred Clarence Redfield, 1920 Vols 17 21 105 contain Annual reports of the Marine Biological Laboratory for 1907 08 1952 *Annual Plant Reviews, Plant Mitochondria* David C. Logan, 2017-12-07 Die lang erwartete zweite Auflage deckt die wichtigsten Veränderungen der letzten zehn Jahre ab Die 2. Auflage von Annual Plant Reviews Volume 50 Plant Mitochondria wurde vollständig bearbeitet um die jüngsten Forschungsergebnisse und ganz neue Kapitel ergänzt Präsentiert werden die vielfältigen Aufgaben von Mitochondrien in Pflanzen Nach einem Abriss der Geschichte der Erforschung von Mitochondrien in Pflanzen wird erläutert wie die Koevolution die mitochondriale Genexpression bei Pflanzen beeinflusst hat Es folgen eine Erläuterung der Steuerung von Anzahl Form Größe und Motilität von Mitochondrien eine ausführliche Beschreibung der Stress Reaktionen und Rollen der Stressverringerung bei Mitochondrien auf Ebene der Biochemie eine Betrachtung der Wege zur Reparatur von Schädigungen nach dem Calvin Benson Zyklus und Erklärungen vieler weiterer Themen Dieses Werk mit Kapiteln von weltweit führenden Forschern auf dem Gebiet fasst erstmals die unzähligen Forschungsfortschritte der jüngsten Zeit zusammen und unterzieht diese einer Analyse Folgende Bereiche werden in den Kapiteln behandelt Bioplasten Zytomikrosome und Chondriosome die gegenseitige Beeinflussung bei Genomen das dynamische Chondrium die Metall Homeostase in Pflanzenmitochondrien der RNA Metabolismus und die Transkriptregulation die mitochondriale Regulation und Signalwege in der photosynthetischen Zelle die Biochemie von Mitochondrien die Kophysio logie der Pflanzenatmung die Photorespiration Mitochondrien und Zelltod Die 2. Auflage von Annual Plant Reviews Volume 50 Plant Mitochondria ist ein äußerst wichtiges und aktuelles Werk das für Pflanzenwissenschaftler Zell und Molekularbiologen sowie Biochemiker von großem Nutzen und Interesse sein wird

Plant Mitochondria Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the energy of words has been much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Plant Mitochondria**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall effect on readers.

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