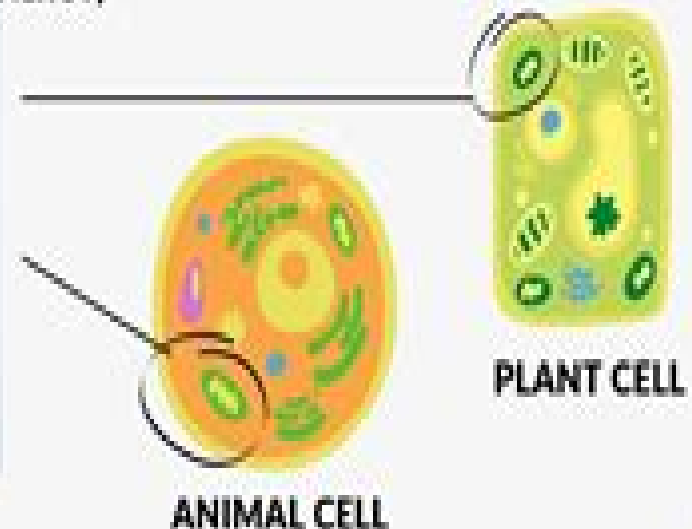
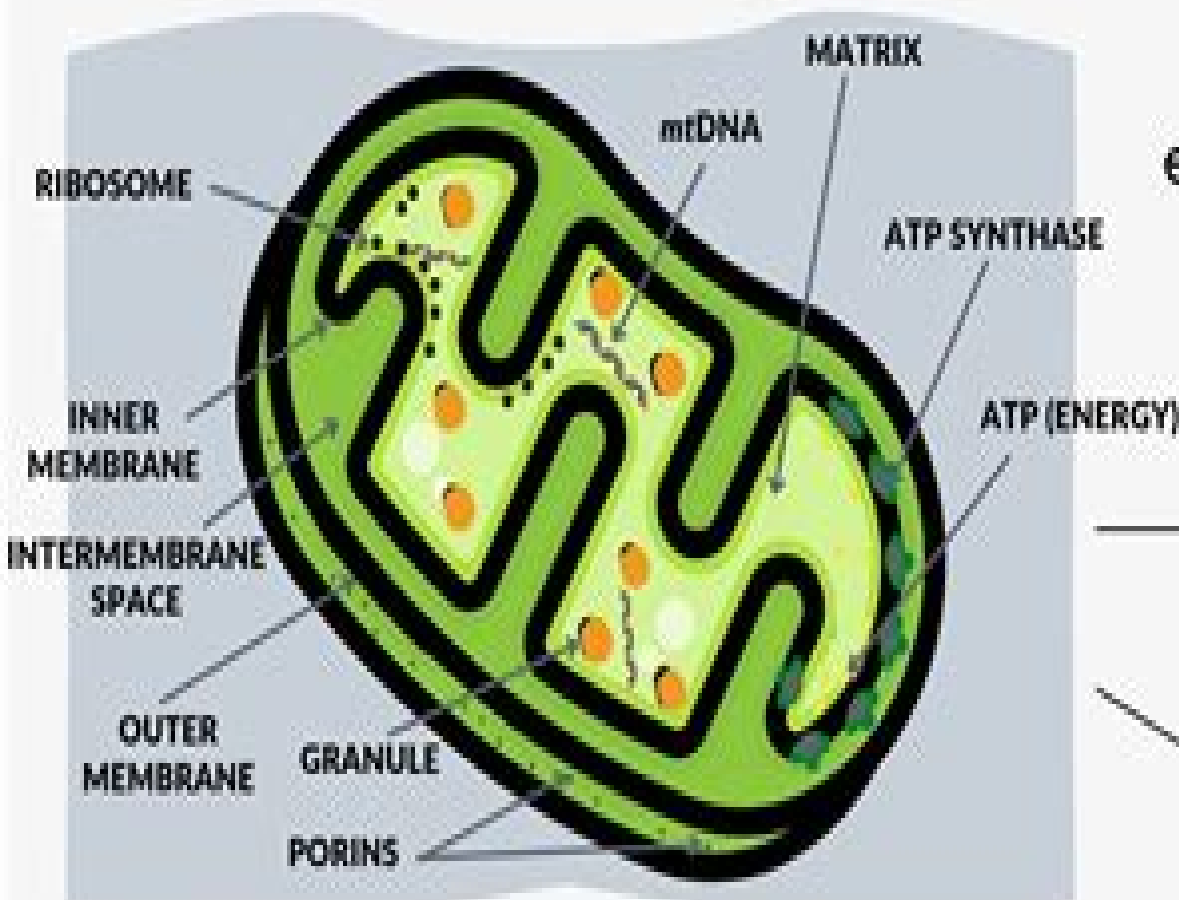


# Mitochondrion

The mitochondrion is the organelle where chemical energy is produced through cellular respiration.



# Mitochondria In Higher Plants

**M Lipman**



## **Mitochondria In Higher Plants:**

**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

**Alternative Respiratory Pathways in Higher Plants** Kapuganti Jagadis Gupta, Luis A. J. Mur, Bhagyalakshmi Neelwarne, 2015-05-07 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

*Male Sterility in Higher Plants* Mohan L.H. Kaul, 2012-12-06 Nature has something more in view than that its own proper males should fecundate each blossom Andrew Knight Philosophical Transactions 1799 Sterility implicating the male sex solely presents a paradoxical situation in which universality and uniqueness are harmoniously blended It maintains a built in outbreeding system but is not an isolating mechanism as male steriles the self emasculated plants outcross with their male fertile sibs normally Both genes nuclear and

cytoplasmic and environment individually as well as conjointly induce male sterility the former being genetic and the latter nongenetic Genetic male sterility is controlled either exclusively by nuclear genes ms or by the complementary action of nuclear lr and cytoplasmic c genes The former is termed genic and the latter gene cytoplasmic male sterility Whereas genic male sterility exhibits Mendelian inheritance gene cytoplasmic male sterility is non Mendelian with specific transmissibility of the maternal cytoplasm type Genetic male sterility is documented in 617 species and species crosses comprising 320 species 162 genera and 43 families Of these genic male sterility occurs in 216 species and 17 species crosses and gene cytoplasmic male sterility in 16 species and 271 species crosses The Predominance of species exhibiting genic male sterility and of species crosses exhibiting gene cytoplasmic male sterility is due to the fact that for the male sterility expression in the former mutation of nuclear genes is required but in the latter mutations of both nuclear and cytoplasmic genes are necessary

Amino Acids and Their Derivatives in Higher Plants R. M. Wallsgrove, 1995-01-26 For 150 years scientists at the Rothamsted Experimental Station have studied aspects of plant nitrogen nutrition and amino acid biosynthesis This book is the result of a meeting held to mark this century and a half of work there The papers look at the significant progress in understanding the biochemistry of amino acids recently achieved in the light of this history of research Leading researchers from around the world have contributed authoritative chapters on protein amino acids non protein amino acids betaines glutathione polyamines and other secondary metabolites derived from amino acids As well as being essential in some animals nutrition these compounds can have important roles in defending against herbivores insects and disease An understanding of these compounds can help in devising better crop protection and production methods *Amino Acids in Higher Plants* J P F D'Mello, 2015-04-15 Amino acids play a role in the defence mechanisms and stress responses of plants as well as in food quality and safety for humans and animals Recent advances in the field make a comprehensive overview of the information a necessity this book collates chapters on plant enzymes and metabolism modulation molecular aspects and secondary products Also including information on ecology the environment and mammalian nutrition and toxicology it provides an authoritative resource Lipids and Lipid Polymers in Higher Plants M. Tevini, H.K. Lichtenthaler, 2012-12-06 This book contains a number of papers dealing with the main topics of a Symposium on Lipids and Lipid Polymers in Higher Plants held in July 1976 at the Botanical Institute of the University of Karlsruhe The symposium was organized by Professors E Heinz H K Lichtenthaler H K Mangold and M Tevini The sponsorship by the Deutsche Forschungsgemeinschaft and the Erwin Riesch Stiftung is gratefully acknowledged The intention of the Symposium was to bring together in one place scientists working in very different fields of plant lipids such as fatty acids glycolipids phospholipids prenolipids sterols and lipid polymers The emphasis was placed on biosynthesis distribution function and physiology of the various higher plant lipids and their role in biomembranes and epidermal cell walls By combining the major contributions in this book we hope to give all plant scientists access to the recent developments in biochemistry and physiology of plant lipid metabolism The editors are very grateful to

the contributors who have taken great care to present up to date reviews Karlsruhe May 1977 M TEVINI H K

LICHTENTHALER Contents Section 1 Function Organization and Lipid Composition of Biomembranes Chapter 1 Functional Organization of Biomembranes P SITTE With 15 Figures A Introduction 1 B Membrane Functions 2 I Membrane Diversity 2 II Membranes as Barriers 4 III Lipids and Permeability 5 IV Specific Transport 8 V Membrane Flow and Membrane Families 9 VI General Principles of Cellular Compartmentation 10 C Membrane Biogenesis

**Fundamental, Ecological and Agricultural Aspects of Nitrogen Metabolism in Higher Plants** J.T. Lambers, G. Stulen, J.J. Neeteson, 2012-12-06 Rinie Hofstra has been a member of the Department of Plant Physiology University of Groningen the Netherlands for 24 years The nearer we came to 31 March 1985 her 65th birthday the more we all realized how we would miss her not only scientifically but also socially She left her mark on both research and teaching always with an open mind and willing to change After her PhD Thesis on Nitrogen Metabolism in Tomato Plants she first continued working in that field but soon started a joint project with the Department of Plant Ecology on hemiparasites She then became involved in carbon metabolism which resulted in her giving a Biotrop Course on C C metabolism in 3 4 Indonesia Her own research group originally working on Nitrogen Metabolism soon embraced Energy and Nitrogen Metabolism as the research on respiration became more and more important In running her group she showed all sides of her person She used to stimulate and encourage everyone around her and to integrate the various lines of research At the same time she always had an open mind for the opinion of all members of her group And together they regularly criticized and evaluated the various projects and decided how to continue

**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

**Ion Transport in Chloroplast and Mitochondria Physiology in Green Organisms** Cornelia

Spetea, Ildikò Szabò, Hans-Henning Kunz, 2017-03-14 Chloroplasts and mitochondria both have a prokaryotic origin carry essential genes on their own highly reduced genome and generate energy in the form of ATP for the plant cell. The ion composition and concentration in these bioenergetic organelles impact photosynthesis, respiration and stress responses in plants. Early electrophysiological and biochemical studies provided strong evidence for the presence of ion channels and ion transporters in chloroplast and mitochondrial membranes. However, it wasn't until the last decade that the development of model organisms such as *Arabidopsis thaliana* and *Chlamydomonas reinhardtii* along with improved genetic tools to study cell physiology have led to the discovery of several genes encoding for ion transport proteins in chloroplasts and mitochondria. For the first time, these discoveries have enabled detailed studies on the essential physiological function of the organellar ion flux. This Research Topic welcomed updated overviews and comprehensive investigations on already identified and novel ion transport components involved in physiology of chloroplasts and mitochondria in green organisms. **Nitrogen Acquisition and Assimilation in Higher Plants**

Sara Amancio, Ineke Stulen, 2007-09-29 Nitrogen is an essential element for plant growth. During the green revolution, nitrogen fertilisation was responsible for spectacular yield increases. At present, yield is balanced with commitments towards the environment and sustainable agriculture. For agro biotechnology, comprehensive knowledge of plant functioning is needed. Yield improvement and accumulation of essential nitrogen compounds is relying on selection and gene technologies. Research on the uptake, acquisition and assimilation of nitrogen as well as the synthesis and storage of reserve and defence N compounds therefore is essential. The third volume in the Plant Ecophysiology series integrates functional and molecular physiology with ecophysiological and sustainable agricultural approaches to get a better understanding of the regulation and the impact of environmental and stress signals on nitrogen acquisition and assimilation. The book is of interest for advanced students and junior researchers and supplies comprehensive information for scientists working in the field of nitrogen metabolism and readers interested in sustainable development. **Programmed Cell Death in Higher Plants**

E. Lam, H. Fukuda, J. Greenberg, 2000-12-31 The molecular mechanisms which determine whether the cells of a multicellular organism will live or commit suicide have become a popular field of research in biology during the last decade. Cell death research in the plant field has also been expanding rapidly in the past 5 years. This special volume of Plant Molecular Biology seeks to bring together examples of a diverse array of experimental approaches in a single volume. From the differentiation of tracheary elements in vascular plants to the more specialized cell death model of the aleurone in cereals, this volume will bring the reader up to date with the characterization of different plant model systems that are currently being studied. This endeavor should complement general overviews of plant cell death mechanisms that have been published elsewhere by providing more detailed information on various aspects of this field to interested graduate students and more senior biologists alike. Antioxidants and Antioxidant Enzymes in Higher Plants

Dharmendra K. Gupta, José M. Palma, Francisco J. Corpas, 2018-03-10 This book provides an overview of antioxidants and antioxidant enzymes and their role

in the mechanisms of signaling and cellular tolerance under stress in plant systems Major reactive oxygen species ROS scavenging modulating enzymes include the superoxide dismutase SOD that dismutates  $O_2$  into  $H_2O_2$  which is followed by the coordinated action of a set of enzymes including catalase CAT ascorbate peroxidase APX glutathione peroxidase GPX and peroxiredoxins Prx that remove  $H_2O_2$  In addition to the ROS scavenging enzymes a number of other enzymes are found in various subcellular compartments which are involved in maintaining such redox homeostasis either by directly scavenging particular ROS and ROS byproducts or by replenishing antioxidants In that respect these enzymes can be also considered antioxidants Such enzymes include monodehydroascorbate reductase MDAR dehydroascorbate reductase DHAR glutathione reductase GR alternative oxidases AOXs peroxidases PODs and glutathione S transferases GSTs Some non enzymatic antioxidants such as ascorbic acid vitamin C carotenes provitamin A tocopherols vitamin E and glutathione GSH work in concert with antioxidant enzymes to sustain an intracellular steady state level of ROS that promotes plant growth development cell cycles and hormone signaling and reinforces the responses to abiotic and biotic environmental stressors Offering a unique compilation of information on antioxidants and antioxidant enzymes this is a valuable resource for advanced students and researchers working on plant biochemistry physiology biotechnology and signaling in cell organelles and those specializing in plant enzyme technology

*Post-Transcriptional Control of Gene Expression in Plants* Witold Filipowicz, Thomas Hohn, 2012-12-06 A recent volume of this series Signals and Signal Transduction Pathways in Plants K Palme ed Plant Molecular Biology 26 1237 1679 described the relay races by which signals are transported in plants from the sites of stimuli to the gene expression machinery of the cell Part of this machinery the transcription apparatus has been well studied in the last two decades and many important mechanisms controlling gene expression at the transcriptional level have been elucidated However control of gene expression is by no means complete once the RNA has been produced Important regulatory devices determine the maturation and usage of mRNA and the fate of its translation product Post transcriptional regulation is especially important for generating a fast response to environmental and intracellular signals This book summarizes recent progress in the area of post transcriptional regulation of gene expression in plants 18 chapters of the book address problems of RNA processing and stability regulation of translation protein folding and degradation as well as intracellular and cell to cell transport of proteins and nucleic acids Several chapters are devoted to the processes taking place in plant organelles

**A Molecular Approach To Primary Metabolism In Higher Plants** Christine Foyer, W. Paul Quick, 1997-08-08 Discusses and explains the major advances that the new technology of applying molecular genetic techniques of modifying carbon and nitrogen in plants has provided giving insights into its applications for the benefits of agriculture the environment and man The text is divided into three sections the first focusing on primary nitrogen and carbon

**Cytochrome Systems** S. Papa, B. Chance, L. Ernster, 2012-12-06 This volume is based on the proceedings of an International Symposium on Cytochrome Systems Molecular Biology and Bioenergetics that was held at Selva di Fasano near

Bari Italy between April 7 and 11 1987 It contains papers covering the subjects discussed at the Symposium contributed both by participants of the meeting and by some invited speakers who were not able to attend The aim of the Symposium was to bring together experts in various research strategies currently being applied to the study of cytochrome systems including molecular genetics protein chemistry enzymology of electron transfer and protonmotive activity in energy transducing biological membranes Because of the high degree of complexity of cytochrome systems and the increasing sophistication in recent years of the different experimental approaches there has been a growing specialization sometimes even a tendency to over specialization among scientists working in this field This in itself seemed to justify a meeting where representatives of various disciplines could exchange their results and discuss their conclusions In addition and perhaps even more importantly it was felt that meetings of this kind provide an opportunity for a cross fertilization of approaches and ideas among representatives of various fields of science The present meeting proved to be an ample illustration of the success of such an interaction

*The Biological Bulletin* Frank Rattray Lillie, Carl Richard Moore, Alfred Clarence Redfield, 1918 Vols 17 21 105 contain Annual reports of the Marine Biological Laboratory for 1907 08 1952

*Reactive Oxygen Species and Antioxidants in Higher Plants* S. Dutta Gupta, 2010-09-15 Providing basic information on reactive oxygen species ROS this volume describes new developments in the action of ROS the role of antioxidants and the mechanisms developed to scavenge free radical associated cellular damage It illustrates the chemistry of ROS ROS signaling antioxidative defense systems transgene approaches in scavenging R

**An Analysis of RNA Editing Sites in Petunia Mitochondria with Emphasis on the Genes for NADH Dehydrogenase Subunit 3 and Ribosomal Protein S12** Robin Katherine Wilson, 1995

**Investigations Into the Organellar Genomes of Higher Plants with a Focus on the Cucumber (*Cucumis Sativus* L.) Mitochondrial Genome** Jason Warren Lilly, 2000

Contributions to Embryology Carnegie Institution of Washington, 1918



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