

Charles E. Bullerwell *Editor*

# Organelle Genetics

Evolution of Organelle Genomes  
and Gene Expression

 Springer

# Organelle Genetics Evolution Of Organelle Genomes And Gene Expression

**Ralph Bock, Volker Knoop**



## **Organelle Genetics Evolution Of Organelle Genomes And Gene Expression:**

**Organelle Genetics** Charles E. Bullerwell,2011-10-26 Mitochondria and chloroplasts are eukaryotic organelles that evolved from bacterial ancestors and harbor their own genomes The gene products of these genomes work in concert with those of the nuclear genome to ensure proper organelle metabolism and biogenesis This book explores the forces that have shaped the evolution of organelle genomes and the expression of the genes encoded by them Some striking examples of trends in organelle evolution explored here are the reduction in genome size and gene coding content observed in most lineages the complete loss of organelle DNA in certain lineages and the unusual modes of gene expression that have emerged such as the extensive and essential mRNA editing that occurs in plant mitochondria and chloroplasts This book places particular emphasis on the current techniques used to study the evolution of organelle genomes and gene expression

Organelle Genetics Charles E. Bullerwell,2011-11-02 Mitochondria and chloroplasts are eukaryotic organelles that evolved from bacterial ancestors and harbor their own genomes The gene products of these genomes work in concert with those of the nuclear genome to ensure proper organelle metabolism and biogenesis This book explores the forces that have shaped the evolution of organelle genomes and the expression of the genes encoded by them Some striking examples of trends in organelle evolution explored here are the reduction in genome size and gene coding content observed in most lineages the complete loss of organelle DNA in certain lineages and the unusual modes of gene expression that have emerged such as the extensive and essential mRNA editing that occurs in plant mitochondria and chloroplasts This book places particular emphasis on the current techniques used to study the evolution of organelle genomes and gene expression

Organelle Genetics in Plants Víctor Quesada,Pedro Robles,2021-09-02 Chloroplasts in photosynthetic organisms and mitochondria in a vast majority of eukaryotes contain part of the genetic material of a eukaryotic cell The organisation and inheritance patterns of this organellar DNA are quite different to that of nuclear DNA Present day chloroplast and mitochondrial genomes contain only a few dozen genes Nevertheless these organelles harbor several thousand proteins the vast majority of them encoded by the nucleus As a result the expression of nuclear and organelle genomes has to be very precisely coordinated

**Genomic Insights into the Biology of Algae** ,2012-12-31 Advances in Botanical Research publishes in depth and up to date reviews on a wide range of topics in plant sciences The series 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 Genomic Insights into the Biology of Algae 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 Genomic Insights into the Biology of Algae

**Cell Organelles** Reinhold G. Herrmann,2012-12-06 The compartmentation of genetic information is a fundamental feature of the eukaryotic cell The

metabolic capacity of a eukaryotic plant cell and the steps leading to it are overwhelmingly an endeavour of a joint genetic cooperation between nucleus cytosol plastids and mitochondria Alter ation of the genetic material in anyone of these compartments or exchange of organelles between species can seriously affect harmoniously balanced growth of an organism Although the biological significance of this genetic design has been vividly evident since the discovery of non Mendelian inheritance by Baur and Correns at the beginning of this century and became indisputable in principle after Renner s work on interspecific nuclear plastid hybrids summarized in his classical article in 1934 studies on the genetics of organelles have long suffered from the lack of respectabil ity Non Mendelian inheritance was considered a research sideline ifnot a freak by most geneticists which becomes evident when one consults common textbooks For instance these have usually impeccable accounts of photosynthetic and respiratory energy conversion in chloroplasts and mitochondria of metabolism and global circulation of the biological key elements C N and S as well as of the organization maintenance and function of nuclear genetic information In contrast the heredity and molecular biology of organelles are generally treated as an adjunct and neither goes as far as to describe the impact of the integrated genetic system

*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

*Molecular Biology and Biotechnology of Plant Organelles*  
Henry Daniell, Ph.D.,Christine D. Chase,2007-11-04 We have taught plant molecular biology and biotechnology at the undergraduate and graduate level for over 20 years In the past few decades the field of plant organelle molecular biology and biotechnology has made immense strides From the green revolution to golden rice plant organelles have revolutionized agriculture Given the exponential growth in research the problem of finding appropriate textbooks for courses in plant biotechnology and molecular biology has become a major challenge After years of handing out photocopies of various journal articles and reviews scattered through out the print and electronic media a serendipitous meeting occurred at the 2002 IATPC World Congress held in Orlando Florida After my talk and evaluating several posters presented by investigators from my laboratory Dr Jacco Flipsen Publishing Manager of Kluwer Publishers asked me whether I would consider editing a book on Plant Organelles I accepted this challenge after months of deliberations primarily because I was unsuccessful in finding a

text book in this area for many years I signed the contract with Kluwer in March 2003 with a promise to deliver a camera ready textbook on July 1 2004 Given the short deadline and the complexity of the task I quickly realized this task would need a co editor Dr Christine Chase was the first scientist who came to my mind because of her expertise in plant mitochondria and she readily agreed to work with me on this book

**Progress in Botany** Ulrich Lüttge, Wolfram Beyschlag, John Cushman, 2013-10-01 With one volume each year this series keeps scientists and advanced students informed of the latest developments and results in all areas of the plant sciences The present volume includes reviews on genetics cell biology physiology ecology and vegetation science

**Organelle Genes and Genomes** Nicholas W. Gillham, 1994 Chloroplasts and mitochondria contain their own genomes and protein synthesizing systems but only a fraction of the genes required for the proper function of these organelles are specified by the genomes Organelle Genes and Genomes reviews the properties of chloroplast and mitochondrial genomes and shows how such study is now contributing broadly to the resolution of important biological problems These range from the use of organelle DNA molecules in evolutionary and phylogenetic studies to molecular investigations of the mechanisms underlying RNA editing intron splicing and mobility and mitochondrial disease The book is divided into four parts Part I describes the structure and function of chloroplasts and mitochondria Part II discusses their origins as well of the structure content and replication of their genomes for phylogenetic studies Part III considers the genetics of model systems transformation the inheritance of organelle genomes and their intracellular genetics This section includes chapters dealing with intron splicing mobile elements organelle plasmids and mitochondrial diseases Part IV considers gene expression in organelles including novel problems like RNA editing Students and researchers in genetics molecular biology cell biology and evolution will welcome this new contribution by an eminent researcher in the field

**Biomedical Index to PHS-supported Research: pt. A. Subject access A-H**, 1992

**Genetics Manual** G. P. Radei, 1998 Radei has created an outstanding compendium of genetics Arranged as a dictionary the book is almost an encyclopedic collection of terms concepts The author has managed to define terms with appropriate mixtures of depth detail for the researcher along with clarity useful for the nonexpert Choice 1998

**Cytokinins** David W. S. Mok, 2019-07-23 Cytokinins are hormones involved in all aspects of plant growth and development and are essential for in vitro manipulation of plant cells and tissues Much information has been gathered regarding the chemistry and biology of cytokinins while recent studies have focused on the genetics and cytokinin related genes However other than proceedings of symposia no single volume on cytokinins has been written This book is the first of its kind homing in on the key subject areas of cytokinin chemistry biosynthesis metabolism activity function genetics and analyses These areas are comprehensively reviewed in individual chapters by experts currently active in the field In addition a personal history on the discovery of cytokinin is presented by Professor Folke Skoog This volume summarizes previous findings and identifies future research directions

**Biomedical Index to PHS-supported Research**, 1993      **Plant Genes, Genomes and Genetics** Erich

Grotewold, Joseph Chappell, Elizabeth A. Kellogg, 2015-05-26 *Plant Genes Genomes and Genetics* provides a comprehensive treatment of all aspects of plant gene expression Unique in explaining the subject from a plant perspective it highlights the importance of key processes many first discovered in plants that impact how plants develop and interact with the environment This text covers topics ranging from plant genome structure and the key control points in how genes are expressed to the mechanisms by which proteins are generated and how their activities are controlled and altered by posttranslational modifications Written by a highly respected team of specialists in plant biology with extensive experience in teaching at undergraduate and graduate level this textbook will be invaluable for students and instructors alike *Plant Genes Genomes and Genetics* also includes specific examples that highlight when and how plants operate differently from other organisms special sections that provide in depth discussions of particular issues end of chapter problems to help students recapitulate the main concepts rich full colour illustrations and diagrams clearly showing important processes in plant gene expression a companion website with PowerPoint slides downloadable figures and answers to the questions posed in the book Aimed at upper level undergraduates and graduate students in plant biology this text is equally suited for advanced agronomy and crop science students inclined to understand molecular aspects of organismal phenomena It is also an invaluable starting point for professionals entering the field of plant biology

*Genetics and Molecular Biology* Kohji Hasunuma, 2009-10-20 *Genetics and Molecular Biology* is a component of Encyclopedia of Biological Physiological and Health Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Genetics and Molecular Biology with contributions from distinguished experts in the field deals with genetics and its development and biology at the Molecular level This volume is aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Genetics Leland Hartwell, 2000 *Genetics From Genes to Genomes* is a cutting edge introductory genetics text authored by an unparalleled author team including Nobel Prize winner Leland Hartwell The Third Edition continues to build upon the integration of Mendelian and molecular principles providing students with the links between early genetics understanding and the new molecular discoveries that have changed the way the field of genetics is viewed

Evolutionary Biology - Concepts, Biodiversity, Macroevolution and Genome Evolution Pierre Pontarotti, 2011-07-20 The annual Evolutionary Biology Meetings in Marseilles serve to gather leading scientists promote the exchange of ideas and encourage the formation of international collaborations This book contains the most essential contributions presented at the 14th Evolutionary Biology Meeting which took place in September 2010 It comprises 19 chapters organized according to the following categories Evolutionary Biology Concepts Biodiversity and Evolution Macroevolution Genome Evolution Offering an up to date overview of recent results in the field of evolutionary biology this book is an invaluable source of information for scientists teachers and advanced students

**Research Awards Index**, 1989

*Insect Endocytobiosis* Werner Schwemmler, 1989-10-31 This book is a collection of contributions from leading scientists in the field of intracellular symbiosis research outlining the present status of endocytobiosis studies on the most important groups of insects Emphasis is on the results of experimental symbiosis research on the morphology physiology and genetics of selected insect groups Insights provided by the new interdisciplinary research field of endocytobiology is considered in interpreting experimental results of symbiology Various insect endocytobionts are discussed with regard to their evolutionary development reflecting the current status of evolution research Special attention is given to the phylogenetic and systematic classification of endocytobionts Also discussed in comparison with the similar system of ticks are all endosymbioses found in roaches termites ants cicadas coccids aphids flies and beetles

**Genes** Benjamin Lewin, 1997 Genes VI gives an integrated account of the structure and function of genes in both prokaryotic and eukaryotic organisms It is thoroughly up to date with the latest thinking and research in the field Successive editions have provided an integrated account of the whole field of modern molecular genetics and this edition continues that approach providing a new synthesis and continuing the greater emphasis first seen in Genes V on how genes function in their biological context Back Cover

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