

Topics in Current Genetics

R. Bock
(Ed.)

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Cell and Molecular Biology of Plastids



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Cell And Molecular Biology Of Plastids Topics In Current Genetics:

Cell and Molecular Biology of Plastids Ralph Bock, 2007-09-19 The present book provides a comprehensive overview of our current knowledge on plastid biogenesis plastid nuclear communication and the regulation of plastid gene expression at all levels It also assesses the state of the art in key technologies such as proteomics and chloroplast transformation Written by recognized experts in the field the book further covers crucial post translational processes in plastid biogenesis and function including protein processing Plastid Biology Kevin Pyke, 2009-04-30 Plastids reside in all plant cells and take on different forms in relation to their cellular function biochemistry and storage capacity The modern era of molecular biology and molecular genetics has enabled much to be learnt about how plastids function and how they relate to their evolutionary past In this accessible text Kevin Pyke expertly describes how the plastids are highly complex organelles at the very core of plant cellular function providing final year undergraduate and graduate students with an overview of plastid biology and recent developments in the field Topics covered include a consideration of different plastid types and how they relate to cell function plastid genomes and how proteins are imported into plastids photosynthesis and core aspects of plastid biochemistry plastid signalling and functionality within a cellular context and plastid genetic manipulation Supplementary colour images are available online at www.cambridge.org/9780521885010 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 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

Translation in Mitochondria and Other Organelles Anne-Marie

Duchêne, 2013-09-13 The present book gives an overview on the similarities and differences of the various translation systems. Moreover, it highlights the mechanisms and control of translation in mitochondria and other organelles such as chloroplasts, plastids, and apicoplasts in different organisms. Lastly, it offers an outlook on future developments and applications that might be made possible by a better understanding of translation in mitochondria and other organelles.

Handbook of Maize Jeff L. Bennetzen, Sarah C. Hake, 2009-01-16 Maize is one of the world's highest value crops with a multibillion dollar annual contribution to agriculture. The great adaptability and high yields available for maize as a food, feed, and forage crop have led to its current production on over 140 million hectares worldwide with acreage continuing to grow at the expense of other crops. In terms of tons of cereal grain produced worldwide, maize has been number one for many years. Moreover, maize is expanding its contribution to non-food uses, including as a major source of ethanol as a fuel additive or fuel alternative in the US. In addition, maize has been at the center of the transgenic plant controversy, serving as the first food crop with released transgenic varieties. By 2008, maize will have its genome sequence released, providing the sequence of the first average size plant genome. The four plant genomes that are now sequenced come from unusually tiny genomes and of the most complex genome sequenced from any organism. Among plant science researchers, maize has the second largest and most productive research community, trailing only the Arabidopsis community in scale and significance. At the applied research and commercial improvement levels, maize has no peers in agriculture and consists of thousands of contributors. A comprehensive book on the biology of maize has not been published. The Handbook of Maize, the Genetics and Genomics center on the past, present, and future of maize as a model for plant science research and crop improvement. The books include brief, focused chapters from the foremost maize experts and feature a succinct collection of informative images representing the maize germplasm collection.

Concepts in Cell Biology - History and Evolution Vaidurya Pratap Sahi, František Baluška, 2018-03-01 This book discusses central concepts and theories in cell biology from the ancient past to the 21st century, based on the premise that understanding the works of scientists like Hooke, Hofmeister, Caspary, Strasburger, Sachs, Schleiden, Schwann, Mendel, Nemec, McClintock, etc. in the context of the latest advances in plant cell biology will help provide valuable new insights. Plants have been an object of study since the roots of the Greek, Chinese, and Indian cultures. Since the term cell was first coined by Robert Hooke 350 years ago in *Micrographia*, the study of plant cell biology has moved ahead at a tremendous pace. The field of cell biology owes its genesis to physics, which through microscopy has been a vital source for piquing scientists' interest in the biology of the cell. Today, with the technical advances we have made in the field of optics, it is even possible to observe life on a nanoscale. From Hooke's observations of cells and his inadvertent discovery of the cell wall, we have since moved forward to engineering plants with modified cell walls. Studies on the chloroplast have also gone from Julius von Sachs' experiments with chloroplasts to using chloroplast engineering to deliver higher crop yields.

Similarly advances in fluorescent microscopy have made it far easier to observe organelles like chloroplast once studied by Sachs or actin observed by Bohumil Nemeš. If physics in the form of cell biology has been responsible for one half of this historical development biochemistry has surely been the other.

Photosynthesis Julian J. Eaton-Rye, Baishnab C. Tripathy, Thomas D. Sharkey, 2011-11-04 Photosynthesis Plastid Biology Energy Conversion and Carbon Assimilation was conceived as a comprehensive treatment touching on most of the processes important for photosynthesis. Most of the chapters provide a broad coverage that it is hoped will be accessible to advanced undergraduates, graduate students and researchers looking to broaden their knowledge of photosynthesis. For biologists, biochemists and biophysicists this volume will provide quick background understanding for the breadth of issues in photosynthesis that are important in research and instructional settings. This volume will be of interest to advanced undergraduates in plant biology and plant biochemistry and to graduate students and instructors wanting a single reference volume on the latest understanding of the critical components of photosynthesis.

Harmonisation of Regulatory Oversight in Biotechnology Safety Assessment of Transgenic Organisms, Volume 3 OECD Consensus Documents OECD, 2010-11-09 These OECD Biosafety Consensus Documents identify elements of scientific information used in the environmental safety and risk assessment of transgenic organisms which are common to OECD member countries and some non members associated with the work.

Structure and Function of Chloroplasts - Volume II Hongbo Gao, Jürgen Soll, Rebecca L. Roston, Yan Lu, Luning Liu, 2021-01-11 Dr Deqiang Duanmu based at Huazhong Agricultural University in China is collaborating with Dr Gao, Dr Soll, Dr Roston, Dr Lu and Dr Liu as an editorial assistant in this Research Topic.

Carotenoids: Carotenoid and Apocarotenoid Biosynthesis, Metabolic Engineering and Synthetic Biology, 2022-07-23 Carotenoids: Carotenoid and Apocarotenoid Biosynthesis, Metabolic Engineering and Synthetic Biology Volume 671 the latest release in the Methods of Enzymology series highlights new advances in the field with chapters on Metabolomics based analysis of carotenoids and related metabolites in various species via quantitative trait loci and genome wide association mapping approaches. Using bacteria for functional analysis of genes encoding carotenoid biosynthetic enzymes. Rice Callus as a High Throughput Platform for Synthetic Biology and Metabolic Engineering of Carotenoids. Transient expression in *Nicotiana benthamiana*. A simple platform to investigate genes encoding carotenoid biosynthesis enzymes from diverse algal lineages and much more. Additional chapters in this new release cover Protein-protein interaction techniques to investigate post translational regulation of carotenogenesis. The isolation of sub-chloroplast structures from tomato and capsicum fruit. Carrot protoplasts as a suitable method for protein subcellular localization. High throughput production and characterization of carotenoid enzymes for structural and functional studies. Production and structural characterization of the cytochrome P450 enzymes in carotene ring hydroxylation and more. Provides the authority and expertise of leading contributors from an international board of authors. Presents the latest release in Methods in Enzymology series. Updated release includes the latest information

on Carotenoids Carotenoid and apocarotenoid biosynthesis metabolic engineering and synthetic biology **Plastid Development in Leaves during Growth and Senescence** Basanti Biswal,Karin Krupinska,Udaya C. Biswal,2013-07-08 Chloroplast development is a key feature of leaf developmental program Recent advances in plant biology reveal that chloroplasts also determine the development the structure and the physiology of the entire plant The books published thus far have emphasized the biogenesis of the organelle but not the events associated with the transformation of the mature chloroplast to the gerontoplast during senescence This book with 28 chapters is unique because it describes how the chloroplast matures and how it is subsequently transformed to become the gerontoplast during senescence a process required for nutrient recycling in plants This book includes a state of the art survey of the current knowledge on the regulation and the mechanisms of chloroplast development Some of the chapters critically discuss the signaling process the expression potential of plastid DNA the interaction of cellular organelles and the molecular mechanisms associated with the assembly and the disassembly of organellar complexes and finally the modulation of chloroplast development by environmental signals **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 **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 scientist to the fascinating and exiting field of plant mitochondria **Novel Food and Feed Safety Safety Assessment of Foods and Feeds Derived from Transgenic Crops, Volume 2** OECD,2015-04-23 Volume II of this series compiles the science based consensus documents of the OECD Task Force for the Safety of Novel Foods and Feeds from 2009 to 2014 They contain information for use during the regulatory assessment of food feed products of modern biotechnology i e developed from **The Molecular Biology of Plastids** Indra Vasil,2012-12-02 The Molecular Biology of Plastids Cell Culture and Somatic

Cell Genetics of Plants Volume 7A deals with various aspects of plastid nucleic acid and protein metabolism This book is organized into 10 chapters Chapter 1 provides the introduction to the molecular biology of plastids followed by a discussion of the maps of restriction endonuclease sites on chloroplast chromosomes in Chapter 2 Chapter 3 focuses on chloroplast gene transmission while Chapters 4 to 7 describe the apparatus for nucleic acid and protein metabolism and how some transcripts of chloroplast genes are processed The ribosomal proteins ribosomes and translation in plastids are covered in Chapter 8 The last two chapters consider the organization operation and transport of polypeptides through the outer plastid membranes This volume is a good reference for plant molecular biologist genetic engineers and researchers conducting work on the molecular biology of chloroplasts *The Chlamydomonas Sourcebook* Arthur Grossman, Francis-André Wollman, 2023-02-15 Originally published as the stand alone Chlamydomonas Sourcebook then expanded as the second volume in a three part comprehensive gold standard reference The Chlamydomonas Sourcebook Organellar and Metabolic Processes has been fully revised and updated to include a wealth of new knowledge and resources for the Chlamydomonas community It details the tremendous progress recently made with respect to imaging the ultrastructure of cells dissecting acclimation and biosynthetic responses and elucidating molecular processes underlying the biology of organelles In particular this volume includes exciting new developments in the use of imaging technologies for examining supramolecular organization of the chloroplast defining mechanisms of branched electron transfer pathways in photosynthesis dissecting the organization of pyrenoids and CO₂ concentration mechanisms presenting the intricacies associated with acclimation to environmental conditions and providing new insights into dark metabolism and the network of fermentative metabolism This book thus presents the latest advances in both the research and uses of new experimental approaches and technologies making this a must have resource for researchers and students working in plant science and photosynthesis fertility mammalian vision aspects of human disease acclimation to environmental change and the biogenesis of cellular complexes Describes molecular techniques analysis of the recently sequenced genome reviews of the current status of the diverse fields in which Chlamydomonas is used as a model organism Provides methods for Chlamydomonas research and best practices for their applications this includes methods for cell culture preservation of cultures preparation of media lists of inhibitors and other additives to culture media classical genetic manipulation and new approaches for gene transfer and editing technologies Assists researchers with common laboratory problems such as contamination *RNA Methodologies* Robert E. Farrell Jr., 2017-08-11 RNA Methodologies Fifth Edition continues its tradition of excellence in providing the most up to date ribonucleic acid lab techniques for seasoned scientists and graduate students alike This edition features new material on the exploding field of microRNA as well as the methods for the profiling of gene expression both which have changed considerably in recent years As a leader in the field Dr Farrell provides a wealth of knowledge on the topic of RNA while also giving readers helpful hints from his own personal experience in this subject area Beginning with the most contemporary

RNA Methodologies Fifth Edition presents the essential techniques to use when working with RNA for the experienced practitioner while at the same time providing images and examples to aid the beginner in fully understanding this important branch of molecular biology The next generation of scientists can look to this work as a guide for ensuring high productivity and highly representative data as well as best practices in troubleshooting laboratory problems when they arise Features new material in miRNA MIQE guidelines biomarkers RNA sequencing digital PCR and more Includes expanded coverage on quantitative PCR techniques RNAi bioinformatics the role of locked nucleic acids aptamer biology PCR arrays and other modern technologies Presents comprehensive cutting edge information covering all aspects of working with RNA Builds from basic information on RNA techniques to in depth protocols to guidance on how to modify and adjust each step of a particular application Presents multiple avenues for addressing the same experimental goals

Soil Remediation and Plants Khalid Hakeem,Muhammad Sabir,Munir Ozturk,Ahmet Ruhi Mermut,2014-08-29 The soil is being contaminated continuously by a large number of pollutants Among them heavy metals are an exclusive group of toxicants because they are stable and difficult to disseminate into non toxic forms The ever increasing concentrations of such pollutants in the soil are considered serious threats toward everyone s health and the environment Many techniques are used to clean eliminate obliterate or sequester these hazardous pollutants from the soil However these techniques can be costly labor intensive and often disquieting Phytoremediation is a simple cost effective environmental friendly and fast emerging new technology for eliminating toxic heavy metals and other related soil pollutants Soil Remediation and Plants provides a common platform for biologists agricultural engineers environmental scientists and chemists working with a common aim of finding sustainable solutions to various environmental issues The book provides an overview of ecosystem approaches and phytotechnologies and their cumulative significance in relation to solving various environmental problems Identifies the molecular mechanisms through which plants are able to remediate pollutants from the soil Examines the challenges and possibilities towards the various phytoremediation candidates Includes the latest research and ongoing progress in phytoremediation

Biotechnology in Agriculture and Food Processing Parmjit S. Panesar,Satwinder S. Marwaha,2013-07-23 An instructive and comprehensive overview of the use of biotechnology in agriculture and food production Biotechnology in Agriculture and Food Processing Opportunities and Challenges discusses how biotechnology can improve the quality and productivity of agriculture and food products It includes current topics such as GM foods enzymes and prod

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