Advances in Photosynthesis and Respiration

The Structure and Function of Plastids



Edited by Robert R. Wise and J. Kenneth Hoober



Parvaiz Ahmad, M.M. Azooz, M.N.V. Prasad

The Structure and Function of Plastids Robert R. Wise, J. Kenneth Hoober, 2007-09-13 This volume provides a comprehensive look at the biology of plastids the multifunctional biosynthetic factories that are unique to plants and algae Fifty six international experts have contributed 28 chapters that cover all aspects of this large and diverse family of plant and algal organelles The book is divided into five sections I Plastid Origin and Development II The Plastid Genome and Its Interaction with the Nuclear Genome III Photosynthetic Metabolism in Plastids IV Non Photosynthetic Metabolism in Plastids V Plastid Differentiation and Response to Environmental Factors Each chapter includes an integrated view of plant biology from the standpoint of the plastid The book is intended for a wide audience but is specifically designed for advanced undergraduate and graduate students and scientists in the fields of photosynthesis biochemistry molecular biology physiology and plant biology Cell Biology: Structure, Function, and Dynamics Suryakanta Swain, Anupama baral, Dr. Bai MK,2025-04-21 Cell Biology Structure Function and Dynamics in Action provides an in depth and contemporary overview of the fundamental principles that govern the life of cells Designed for students educators and professionals in the life sciences this book bridges the gap between basic concepts and the latest advancements in the field It brings together the structural functional and dynamic aspects of cellular biology in a unified easy to understand format that highlights both foundational knowledge and emerging insights The book covers a broad spectrum of topics ranging from cellular architecture and molecular interactions to intracellular signaling gene regulation and cellular energy mechanisms It also delves into specialized areas like cell communication the cell cycle apoptosis and the cellular basis of diseases Each chapter is structured to guide readers through intricate biological systems with clear explanations illustrative diagrams and real world applications What sets this book apart is its emphasis on the dynamic nature of cells It doesn't just present facts it narrates the story of how cells operate adapt and respond to their environment This dynamic approach encourages readers to think critically and appreciate the complexity and beauty of cellular processes in action Incorporating recent research findings case studies and experimental methods the book encourages a hands on inquiry based understanding of cell biology Whether used in an academic course or for self study this text serves as a comprehensive and engaging resource for anyone looking to explore the intricacies of the cellular world Handbook of Photosynthesis Mohammad Pessarakli, 2018-09-03 Since the publication of the previous editions of the Handbook of Photosynthesis many new ideas on photosynthesis have emerged in the past decade that have drawn the attention of experts and researchers on the subject as well as interest from individuals in other disciplines Updated to include 37 original chapters and making extensive revisions to the chapters that have been retained 90% of the material in this edition is entirely new With contributions from over 100 authors from around the globe this book covers the most recent important research findings It details all photosynthetic factors and processes under normal and stressful conditions explores the relationship between photosynthesis and other plant physiological processes and relates

photosynthesis to plant production and crop yields The third edition also presents an extensive new section on the molecular aspects of photosynthesis focusing on photosystems photosynthetic enzymes and genes New chapters on photosynthesis in lower and monocellular plants as well as in higher plants are included in this section. The book also addresses growing concerns about excessive levels and high accumulation rates of carbon dioxide due to industrialization It considers plant species with the most efficient photosynthetic pathways that can help improve the balance of oxygen and carbon dioxide in the atmosphere Completely overhauled from its bestselling predecessors the Handbook of Photosynthesis Third Edition provides a nearly entirely new source on the subject that is both comprehensive and timely It continues to fill the need for an authoritative and exhaustive resource by assembling a global team of experts to provide thorough coverage of the subject while focusing on finding solutions to relevant contemporary issues related to the field **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 **Plastids** Eric Maréchal, 2024-03-19 This second edition volume expands on the previous edition with new and updated chapters that explore our current view on plastid evolution structure and function The chapters in this book are organized into three parts and cover topics such as plastid evolution plasticity and functional and structural diversity techniques used to visualize fractionate purify and study primary plastids from plant materials and secondary plastids and methods to analyze plastids by integrated biology strategies based on genetics genomics proteomics and lipidomics 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 Cutting edge and authoritative Plastids Methods and Protocols Second Edition is a valuable resource that willhelp students engineers and researchers further explore and understand this fascinating organelle 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 their Organelles William V. Dashek, Gurbachan S. Miglani, 2017-01-17 Plant Cells and Their Organelles provides a comprehensive overview of the structure and function of plant organelles. The text focuses on subcellular organelles while also providing relevant background on plant cells tissues and organs Coverage of the latest methods of light and electron microscopy and modern biochemical procedures for the isolation and identification of organelles help to provide a thorough and up to date companion text to the field of plant cell and subcellular biology The book is designed as an advanced text for upper level undergraduate and graduate students with student friendly diagrams and clear explanations Basis of Biological Energy Generation Martin F. Hohmann-Marriott, 2014-04-30 The fascinating machinery that life uses to harness energy is the focus of this volume of the Advances in Photosynthesis and Respiration series Experts in the field communicate their insights into the mechanisms that govern biological energy conversion from the atomic scale to the physiological integration within organisms By leveraging the power of current structural techniques the authors reveal the Advances in Plastid Biology and Its Applications Niaz Ahmad, Steven J. Burgess, Brent L. inner workings of life Nielsen, 2016-12-12 One of the distinguishing features of plants is the presence of membrane bound organelles called plastids Starting from proplastids undifferentiated plastids they readily develop into specialised types which are involved in a range of cellular functions such as photosynthesis nitrogen assimilation biosynthesis of sucrose starch chlorophyll carotenoids fatty acids amino acids and secondary metabolites as well as a number of metabolic reactions like sulphur metabolism The central role of plastids in many aspects of plant cell biology means an in depth understanding is key for a holistic view of plant physiology Despite the vast amount of research the molecular details of many aspects of plastid biology remains limited Plastids possess their own high copy number genome known as the plastome Manipulation of the plastid genome has been developed as an alternative way to developing transgenic plants for various biotechnological applications High copy number of the plastome site specific integration of transgenes through homologous recombination and potential to express proteins at high levels 70% of total soluble proteins has been reported in some cases are some of the technologies being developed Additionally plastids are inherited maternally providing a natural gene containment system and do not follow Mendelian laws of inheritance allowing each individual member of the progeny of a transplastomic line to uniformly express transgene s Both algal and higher plant chloroplast transformation has been demonstrated and with the ability to be propagated either in

bioreactors or in the field both systems are well suited for scale up of production The manipulation of chloroplast genes is also essential for many approaches that attempt to increase biomass accumulation or re routing metabolic pathways for biofortification food and fuel production This includes metabolic engineering for lipid production adapting the light harvesting apparatus to improve solar conversion efficiencies and engineering means of suppressing photorespiration in crop species which range from the introduction of artificial carbon concentrating mechanisms or those pre existing elsewhere in nature to bypassing ribulose bisphosphate carboxylase oxygenase entirely The purpose of this eBook is to provide a compilation of the latest research on various aspects of plastid biology including basic biology biopharming metabolic engineering bio fortification stress physiology and biofuel production **Chloroplast Biogenesis and Plastid Interconversions** Vijay Kumar Dalal, Amarendra Narayan Misra, 2025-09-26 This edited book covers the latest developments surrounding plastids with a focus on chloroplasts and their inter conversions to other plastids namely chromoplasts gerontoplasts and leucoplasts Chloroplasts convert solar energy into biologically useful forms of energy by performing photosynthesis The parts of plants above ground contain green tissues that house chloroplasts one of several types of plastids which are the main sites of photosynthesis in eukaryotic cells The book focuses on what chloroplasts are their biogenesis and degradation constituents thylakoids and assembly of thylakoids functions their inter conversions and their effects on biomass production and yield among other topics It discusses how chloroplasts form from proplastids primarily found in meristematic tissues present in shoot apical and auxiliary meristems in dicots and in the leaf base in monocots Additionally chloroplasts produce various molecules of human interest that can be converted into biochemical factories through transgenic approaches which are also discussed The content is supported with figures offering a more comprehensive understanding of the topics covered making the information more accessible and engaging for readers This book is suitable for students researchers and scientists working in chloroplast leucoplast gerontoplast chromoplast biogenesis and photosynthesis as it covers the latest findings in addition to the currently established notions Genomic Insights Into the Biology of Algae Gwanael Piganeau, 2012-11-29 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 Microbial Colorants Lugman Jameel Rather, Mohammad Shahid, Salman Jameel, 2025-04-07 The book is a must buy for anyone interested in the burgeoning field of microbial colorants as it provides an extensive exploration of their sources chemistry and diverse applications while addressing crucial aspects of

environmental sustainability and regulatory considerations Microbial Colorants Chemistry Biosynthesis and Applications offers a comprehensive and in depth exploration of microbial colorants covering their sources chemical properties biosynthesis and a wide range of applications The volume compiles information on microbial and non conventional pigment sources as well as environmental sustainability and regulatory aspects surrounding their use The first half of the book delves into the sources and chemistry of microbial pigments covering a variety of topics including bacterial pigments fungal pigments algal and cyanobacterial colorants and more Readers will gain insight into the diverse world of microbial pigments and the science behind their vibrant colors The second half of the book focuses on the practical aspects of microbial colorants including extraction and purification techniques biotechnological approaches to enhance production environmental sustainability and regulatory considerations It also explores the numerous applications of microbial colorants in industries such as food cosmetics textiles and technology Microbial colorants are gaining increasing attention due to their natural and sustainable properties As the world seeks eco friendly alternatives to synthetic dyes and colorants microbial pigments offer a promising solution This book aims to bridge the knowledge gap by providing a comprehensive resource for researchers students and professionals interested in this emerging field Readers will find the book Explores various microbial pigments and their sources Reviews pigment isolation biosynthesis and processing techniques Discusses potential applications of pigments across a range of products in the food and beverage industry pharmaceutical industry and textile dyeing industry Covers food safety and toxicity aspects of using microbial pigments as food colorants and includes the latest innovations in the use of microbial pigments in the textile industrial sector for dyeing and finishing purposes Provides regulatory considerations and compliance requirements for using microbial colorants in various industries Audience The book is meant for researchers academics and industry experts working in fields related to pigment production chemistry isolation and applications in the food and beverage medicine and textile industries The book will be beneficial to synthetic organic chemists who work in the field of drug development Algal Biorefineries and the Circular Bioeconomy Sanjeet Mehariya, Obulisamy Parthiba Karthikeyan, Shashi Kant Bhatia, 2022-04-19 Algae are mysterious and fascinating organisms that hold great potential for discovery and biotechnology Dr Thierry Tonon Department of Biology University of York Science is a beautiful gift to humanity we should not distort it A P J Abdul Kalam In this book we emphasize the importance of algal biotechnology as a sustainable platform to replace the conventional fossil based economy With this focus Volume 2 summarizes the up to date literature and knowledge and discusses the advances in algal cultivation genetic improvement wastewater treatment resource recovery commercial operation and technoeconomic analysis of algal biotechnology FEATURES Discusses in detail recent developments in algae cultivation and biomass harvesting Provides an overview of genetic engineering and algal bacteria consortia to improve productivity Presents applications of algae in the area of wastewater treatment and resource recovery Provides case studies and technoeconomic analysis to understand the algal

biorefinery Shashi Kant Bhatia PhD is an Associate Professor in the Department of Biological Engineering Konkuk University Seoul South Korea Sanjeet Mehariya PhD is a Postdoctoral Researcher at the Department of Chemistry Ume University Ume Sweden Obulisamy Parthiba Karthikeyan PhD is a Research Scientist and Lecturer Adjunct in the Department of Civil and Environmental Engineering South Dakota School of Mines and Technology Rapid City South Dakota USA Photosynthesis Johannes Wilhelm Goessling, João Serodio, Johann Lavaud, 2024-08-06 This comprehensive guide is designed for researchers professionals and students looking to deepen their knowledge of diatoms including detailed information on diatom photosynthesis regulation at the molecular scale as well as their significant ecological roles all aimed at promoting sustainable advancements and the safeguarding of aquatic ecosystems Diatoms exert an immense influence on the ecosystem of Earth due to their remarkable abundance and species diversity Thriving in diverse habitats spanning the oceans intertidal benthic zones saline and freshwater environments and even terrestrial niches like moist soil forests and caves they play an integral role Diatoms alone account for around 20% of the oxygen generated by photosynthesis comparable to the combined productivity of tropical rainforests worldwide while their primary production can reach 40 45% in marine ecosystems Nevertheless in contrast to the extensive research on macroscopic photosynthetic organisms investigations in this domain remain comparatively limited despite the role of diatoms in global biogeochemical processes This book presents an exhaustive review of the subject matter encompassing a wide spectrum of topics ranging from the intricate molecular mechanisms of diatom photosynthesis and light absorption to the dominant role of diatoms as primary producers within ecological frameworks Beyond this the book delves into the practical implications stemming from diatoms and their photosynthetic productivity A strong emphasis is placed on the importance of fundamental research in deepening our understanding of the natural world around us Diatoms Photosynthesis provides readers with a comprehensive guide to understanding the fundamentals of diatom photosynthesis and their ecological significance in aquatic ecosystems a guide to the potential of diatom derived products for sustainable technologies a roadmap from diatom photosynthesis to implications in applied sciences a bridge to span the gap between fundamental research on diatoms and their practical applications Audience This book caters to academic professionals students and researchers in the fields of marine biology ecology microbiology and biochemistry It offers insights and benefits into diatom photosynthesis diatom physiology biodiversity ecosystem health and sustainable technological advancements **Plastid Biology** Kevin Pyke, 2009-04-30 Provides advanced students with a basic knowledge of plastid biology and recent developments in the field **International Review** of Cell and Molecular Biology Kwang W. Jeon, 2012-01-25 International Review of Cell and Molecular Biology presents current advances and comprehensive reviews in cell biology both plant and animal Articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth Impact factor for 2009 6 088 Authored by some of the foremost scientists in the field Provides up to date information

and directions for future research Valuable reference material for advanced undergraduates graduate students and professional scientists
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

Photosynthesis in Algae Anthony W. D. Larkum, S. Douglas, John A. Raven, 2012-12-06 This book introduces the reader to algal diversity as currently understood and then traces the photosynthetic structures and mechanisms that contribute so much to making the algae unique Indeed the field is now so large that no one expert can hope to cover it all The 19 articles are each written by experts in their area ranging over all the essential aspects and making for a comprehensive coverage of the whole field Important developments in molecular biology especially transformation mutants in Chlamydomonas are dealt with as well as areas important to global climate change carbon dioxide exchange light harvesting energy transduction biotechnology and many others. The book is intended for use by graduate students and beginning researchers in the areas of molecular and cell biology integrative biology plant biology biochemistry and biophysics biotechnology global ecology and phycology **Ecophysiology and Responses of Plants under Salt Stress** Parvaiz Ahmad, M.M. Azooz, M.N.V. Prasad, 2012-11-09 This book will shed light on the effect of salt stress on plants development proteomics genetic engineering and plant adaptations among other topics Understanding the molecular basis will be helpful in developing selection strategies for improving salinity tolerance The book will cover around 25 chapters with contributors from all over the world Light-Harvesting Antennas in Photosynthesis B.R. Green, W.W. Parson, 2013-06-29 Light Harvesting Antennas in Photosynthesis is concerned with the most important process on earth the harvesting of light energy by photosynthetic organisms. This book provides a comprehensive treatment of all aspects of photosynthetic light harvesting antennas from the biophysical mechanisms of light absorption and energy transfer to the structure biosynthesis and regulation of antenna systems in whole organisms It sets the great variety of antenna pigment protein complexes in their evolutionary context and at the same time brings in the latest hi tech developments. The book is unique in the degree to which it emphasizes the integration of molecular biological biochemical and biophysical approaches Overall a well organized understandable and comprehensive volume It will be a valuable resource for both graduate students and their professors and a helpful library

reference book for undergraduates

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