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**Davide Zannoni, Roberto De Philippis** 

Photosynthetic Nitrogen Assimilation and Associated Carbon and Respiratory Metabolism C.H. Foyer, Graham Noctor, 2002-12-31 This book focuses on the very latest developments in our understanding of how plants use light energy and fixed carbon to assimilate nitrate and ammonium into the organic compounds required for growth From the partitioning of organic nitrogen within the photosynthetic apparatus through the primary processes of reduction of nitrate and nitrite and the assimilation of ammonium and its cycling in photorespiration the complex interactions inherent in the crosstalk between carbon and nitrogen assimilation are considered and exciting new developments such as nitric oxide production evaluated Attention is paid throughout to the close coordination of photosynthetic and respiratory processes in nitrogen assimilation Emerging concepts of the interdependence of chloroplasts and mitochondria are described and essential communication transport and signalling processes are highlighted Photosynthetic Nitrogen Assimilation and Associated Carbon and Respiratory Metabolism C.H. Foyer, G. Noctor, 2006-04-11 According to many textbooks carbohydrates are the photosynthesis and mitochondrial respiration fluctuate in a circadian manner in almost every unique final products of plant photosynthesis However the photoautotrophic production of organic organism studied In addition external triggers and environmental influences necessitate precise and nitrogenous compounds may be just as old in appropriate re adjustment of relative flux rates to evolutionary terms as carbohydrate synthesis In the algae and plants of today the light driven assimilation prevent excessive swings in energy resource provision of nitrogen remains a key function operating and use This requires integrated control of the alongside and intermeshing with photosynthesis and expression and activity of numerous key enzymes in respiration Photosynthetic production of reduced photosynthetic and respiratory pathways in order to carbon and its reoxidation in respiration are necessary co ordinate carbon partioning and nitrogen assim ation to produce both the energy and the carbon skeletons required for the incorporation of inorganic nitrogen This volume has two principal aims The first is to into amino acids Conversely nitrogen assimilation provide a comprehensive account of the very latest developments in our understanding of how green is required to sustain the output of organic carbon cells reductively incorporate nitrate and ammonium and nitrogen Together the sugars and amino acids into the organic compounds required for growth Change, Photosynthesis and Advanced Biofuels Ashwani Kumar, Yuan-Yeu Yau, Shinjiro Ogita, Renate Scheibe, 2020-08-31 The use of fossil fuels results in rising CO2 and other greenhouse gas GHG emissions causing global temperature rise and climate change that will negatively impact human health the food supply and eventually worsen hunger and misery Presently fossil fuels meet 88% of the energy demand resulting in rising CO2 GHG emissions at alarming rates The increased use of biofuels would help to mitigate climate change Efficiently designing methods for the production of biofuels and plant derived high value products requires a deeper understanding of photosynthetic processes as a prerequisite for applying novel biotechnologies Accordingly this book provides ample information and a wealth of illustrative examples The book s eighteen

richly illustrated chapters are divided into three thematic parts I Photosynthesis and Biomass Production under Changing Conditions II Microalgae and Engineered Crops for Production of Biofuels and High value Products and III Genetic Resources and Engineering Methods to Improve Crop Plants Readers will find the latest information on the molecular basis of photosynthetic processes in plants including the regulatory principles that allow plants to maintain homeostasis under changing conditions stress resistance and synthetic pathways In addition the basic principles of important biotechnologies as well as examples of specially designed crops capable of growing under stress conditions with improved productivity are presented The book sets the course for future research in the field of biofuel development and production and provides both general and specific information for students teachers academic researchers industrial teams and general readers who are interested in new developments concerning the production of biofuels with value added properties Control of Primary Metabolism in Plants William Plaxton, Michael T. McManus, 2008-06-09 The ability to control the rates of metabolic processes in response to changes in the internal or external environment is an indispensable attribute of living cells that must have arisen with life s origin This adaptability is necessary for conserving the stability of the intracellular environment which is in turn essential for maintaining an efficient functional state The advent of genomics proteomics and metabolomics has revolutionised the study of plant development and is now having a significant impact on the study of plant metabolism and its control In the last few years significant advances have been made with the elucidation of enzyme gene families and the identification of new proteinaceous and allosteric regulators. The first part of this volume is devoted to generic aspects of metabolic control with chapters on the key control points in pathways Part Two considers the control of specific pathways with detailed descriptions including structures and discussions of the regulation of these pathways particularly in terms of the enzymology The book is directed at researchers and professionals in plant biochemistry physiology molecular biology and cell biology 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 nitrogenfertilisation 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 The Purple Phototrophic Bacteria C.N. Hunter, Fevzi Daldal, Marion C.

Thurnauer, J. Thomas Beatty, 2008-10-11 Here is a comprehensive survey of all aspects of these fascinating bacteria metabolically the most versatile organisms on Earth It compiles 48 chapters written by leading experts who highlight the huge progress made in studies of these bacteria since 1995 **Discoveries in Photosynthesis** Govindiee, J.T. Beatty, H. Gest, J.F. Allen, 2006-07-15 Life Is Bottled Sunshine Wynwood Reade Martyrdom of Man 1924 This inspired phrase is a four word summary of the significance of photosynthesis for life on earth The study of photosynthesis has attracted the attention of a legion of biologists biochemists chemists and physicists for over 200 years Discoveries in Photosynthesis presents a sweeping overview of the history of photosynthesis investigations and detailed accounts of research progress in all aspects of the most complex bioenergetic process in living organisms Conceived of as a way of summarizing the history of research advances in photosynthesis as of millennium 2000 the book evolved into a majestic and encyclopedic saga involving all of the basic sciences The book contains 111 papers authored by 132 scientists from 19 countries It includes overviews timelines tributes minireviews on excitation energy transfer reaction centers oxygen evolution light harvesting and pigment protein complexes electron transport and ATP synthesis techniques and applications biogenesis and membrane architecture reductive and assimilatory processes transport regulation and adaptation Genetics and Evolution laboratories and national perspectives and retrospectives that end in a list of photosynthesis symposia books and conferences Informal and formal photographs of scientists make it a wonderful book to have This book is meant not only for the researchers and graduate students but also for advanced undergraduates in Plant Biology Microbiology Cell Biology Biochemistry Biophysics and Genomics of Chloroplasts and Mitochondria Ralph Bock, Volker Knoop, 2012-06-05 The past decade has History of Science 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

**Biocontrol Agents and Secondary Metabolites** Sudisha Jogaiah,2020-11-13 Biocontrol and Secondary Metabolites Applications and Immunization for Plant Growth and Protection covers established and updated research on emerging trends in plant defense signaling in and during stress phases Other topics cover growth at interface as a sustainable way of life and the context of human welfare and conservation of fungi as a group of organisms Further the book explores induced systemic resistance using biocontrol agents and or secondary metabolites as a milestone for sustainable agricultural production thus

providing opportunities for the minimization or elimination of the use of fungicides Presents an overview on mechanisms by which plants protect themselves against herbivory and pathogenic microbes Identifies the use of immunization as a popular and effective alternative to chemical pesticides Explores how these fungi help crop plants in better uptake of soil nutrients increase soil fertility produce growth promoting substances and secrete metabolites that act as bio pesticides Structural 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 inner workings of life Microbial BioEnergy: Hydrogen Production Davide Zannoni, Roberto De Philippis, 2014-07-08 The central theme of this book Microbial BioEnergy Hydrogen Production is focused on the biological machinery that microorganisms use to produce hydrogen gas The book summarizes the achievements over the past decade in the biochemistry structural and molecular biology genomics and applied aspects of microbial H2 production including microbial fuel cells MFC by phototrophs such as purple sulfur and non sulfur bacteria Thiocapsa spp Rhodobacter and Rhodopseudomonas spp microalgae Chlamydomonas and cyanobacteria Anabaena spp along with anaerobes and thermophiles such as Caldicellulosiruptor and Thermotoga This is the first book of this series entirely devoted to microbial bio hydrogen production and is intended to be a precious source of information for PhD students researchers and undergraduates from disciplines such as microbiology biochemistry biotechnology photochemistry and chemical engineering interested in basic and applied sciences Environment, Climate, Plant and Vegetation Growth Shah Fahad, Shah Saud, Taufiq Nawaz, Liping Gu, Mushtag Ahmad, Ruanbao Zhou, 2024-09-26 The book provides currently available information on the changing climate and its impact on functional and adaptive features of plants The book also cover cutting edge research on key determinants of plant growth that provides a direction towards execution of programs and practices that will assist resilience of crop production systems to the changing climate This book will represent the updated scientific information regarding soil and plant productivity under changing climate which will be beneficial to academics and researchers working on climate change agronomy stress physiology biotechnology It provides an in depth discussion on the latest techniques to enhance plant responses to new environmental conditions that can be directly applied on field The Ecophysiology of Plant-Phosphorus Interactions Philip J. White, John P. Hammond, 2008-06-03 Phosphorus P is an essential macronutrient for plant growth It is as phosphate that plants take up P from the soil solution Since little phosphate is available to plants in most soils plants have evolved a range of mechanisms to acquire and use P efficiently including the development of symbiotic relationships that help them access sources of phosphorus beyond the plant s own range At the same time in agricultural systems applications of inorganic phosphate fertilizers aimed at overcoming phosphate limitation

are unsustainable and can cause pollution This latest volume in Springer's Plant Ecophysiology series takes an in depth look at these diverse plant phosphorus interactions in natural and agricultural environments presenting a series of critical reviews on the current status of research In particular the book presents a wealth of information on the genetic and phenotypic variation in natural plant ecosystems adapted to low P availability which could be of particular relevance to developing new crop varieties with enhanced abilities to grow under P limiting conditions The book provides a valuable reference material for graduates and research scientists working in the field of plant phosphorus interactions as well as for those working in plant breeding and sustainable agricultural development Nitrogen Use Efficiency in Plants Vanitha Jain, 2011-01-01 Nitrogen fertilizers are necessary to enhance agricultural production and to sustain food security However their inefficient use accrues from inherent limitations of the crop plants as well as the manner in which N fertilizers are formulated applied and managed The main aim of the book is to assess the various aspects of the fate of fertilizer N in context of the overall N inputs to agricultural systems with a view to enhance the efficiency of nitrogen use and reduce the negative impacts on environment The cross cutting issues relate to improvement in nitrogen use by emerging technologies genetic enhancement QTL mapping meeting N needs by understanding its interactions with other nutrients and mitigation of nitrogen losses caused by environmental factors and management practices Nitrogen Use Efficiency in Plants develops links between basic and applied research and practical crop production by addressing a wide range of topics relating to nitrogen use efficiency and to plant and crop responses to applications of nitrogen via fertilizers including nitrogen acquisition and reduction molecular approaches nitrate induction and signaling and nitrogen use under abiotic stresses Nitrogen Use Efficiency in Plants is an invaluable classroom aid for academics working in plant physiology biochemistry biotechnology molecular breeding and agronomy and an essential professional resource for researchers working in plant and crop systems as it provides a comprehensive interdisciplinary description of problems related to the efficient use of nitrogen in agriculture

Millets and Millet Technology Anil Kumar, Manoj Kumar Tripathi, Dinesh Joshi, Vishnu Kumar, 2021-06-30 Millets are small grained annual warm weather cereal The millets offer both nutritional and livelihood security of human population and fodder security of diverse livestock population in dryland region of India Millets are highly nutritious they are known as health foods especially for control of diabetes and mineral deficiencies One of the major factors for declining consumption of millets is the lack of awareness of their nutritive value and inconvenience of their preparation This book covers both chemistry and novel technology for millet processing and development It summarizes the latest information on millets their nutritional and health benefits historical perspective utilization R D efforts present status and the importance being given by policy makers for promoting millets for sustainable agriculture and healthy society The book is compiled by various experts keeping in view syllabi of different research institutions researchers students as well requirement of the industry It will serve as instructional material for researchers in food science microbiology process engineering biochemistry biotechnology and

reference material for those working in industry and R D labs **Environmental Adaptations and Stress Tolerance of Plants** in the Era of Climate Change Parvaiz Ahmad, M.N.V. Prasad, 2011-12-02 Climate change is a complex phenomenon with a wide range of impacts on the environment Biotic and abiotic stress are a result of climate change Abiotic stress is caused by primary and secondary stresses which are an impediment to plant productivity Prolonged exposure to these stresses results in altered metabolism and damage to biomolecules Plants evolve defense mechanisms to withstand these stresses e q synthesis of osmolytes osmoprotectants and antioxidants Stress responsive genes and gene products including expressed proteins are implicated in conferring tolerance to the plant This volume will provide the reader with a wide spectrum of information including vital references It also provides information as to how phytoconstituents hormones and plant associated microbes help the plants to tolerate the stress This volume also highlights the use of plant resources for ameliorating soil contaminants such as heavy metals Dr Parvaiz is Assistant professor in Botany at A S College Srinagar Jammu and Kashmir India He has completed his post graduation in Botany in 2000 from Jamia Hamdard New Delhi India After his Ph D from the Indian Institute of Technology IIT Delhi India in 2007 he joined the International Centre for Genetic Engineering and Biotechnology New Delhi He has published more than 20 research papers in peer reviewed journals and 4 book chapters He has also edited a volume which is in press with Studium Press Pvt India Ltd New Delhi India Dr Parvaiz is actively engaged in studying the molecular and physio biochemical responses of different plants mulberry pea Indian mustard under environmental stress Prof M N V Prasad is a Professor in the Department of Plant Sciences at the University of Hyderabad India He received B Sc 1973 and M Sc 1975 degrees from Andhra University India and the Ph D degree 1979 in botany from the University of Lucknow India Prasad had published 216 articles in peer reviewed journals and 82 book chapters and conference proceedings in the broad area of environmental botany and heavy metal stress in plants He is the author co author editor or co editor for eight books He is the recipient of Pitamber Pant national Environment Fellowship of 2007 awarded by the Ministry of Environment and Forests Government of India **Plant Stress Physiology and Climate Change** Maria Alexou, 2024-07-19 This book will help students and researchers of Plant Physiology to expand their knowledge on Stress Physiology due to Climate Change Part A summarises plant physiology in a way that most people can understand and even memorise easily Part B brings together various fields of more advanced physiology while explaining some of the newest findings and trends in physiology focusing on drought and heat stress Part B begins by covering oxidative stress in the cell then the impact of stress on leaf stomata the carbon and nitrogen metabolism of plants and subsequently the underestimated role of the plant vasculature The final chapter examines four advanced scientific queries that challenge some accepted viewpoints in Plant Physiology In the end a summary outlines the big picture in Plant Stress Physiology This book guides the reader from basic knowledge to advanced specifics on major topics of Plant Stress Physiology and helps the 

Jaiwal, Rana P. Singh, Om Parkash Dhankher, 2008 This book contains 14 chapters that evaluate the current knowledge state of art and future prospects of plant membrane and vacuolar transporters in relation to plant productivity and quality improvement The role of transporters the mechanisms of uptake accumulation or transport of potassium calcium nitrate ammonium sulfate phosphate iron manganese silicon heavy metals sugars polyols amino acids and secondary metabolites the proteomic analysis of vacuolar membrane and the elemental biofortification of crop plants are emphasized The book is intended for scientists researchers students planners and industrialists working in the area of biotechnology plant agriculture agronomy horticulture plant physiology molecular biology nutritional biology plant sciences and environmental Biofuel Crops Bharat P. Singh, 2013 Providing comprehensive coverage on biofuel crop production and the sciences technological environmental and resource issues associated with a sustainable biofuel industry this book is ideal for researchers and industry personnel Beginning with an introduction to biofuels and the challenges they face the book then includes detailed coverage on crops of current importance or with high future prospects including sections on algae sugar crops and grass oil and forestry species The chapters focus on the genetics breeding cultivation harvesting and handling of Cell Biology of Metals and Nutrients Rüdiger Hell, Ralf-Rainer Mendel, 2010-03-10 Plants are composed of 17 each crop essential and at least 5 beneficial elements and these must be taken up as metal or nutrient ions to allow for growth and cell division Much effort has been devoted to studying the physiology and biochemistry of metals and nutrients in plants The aspect of cell biology however is an emerging new field and much needs to be learned about sensing long distance communication within plants and cellular signal transduction chains in response to environmental stress Cellular malfunction and consequently disease result when any of the key steps in metal and nutrient homeostasis are disrupted Working together leading experts in their respective fields provide a new concept that reaches beyond plant nutrition and plasmalemma transport into cellular physiology Each chapter contains basic information on uptake physiological function deficiency and toxicity syndromes long distance and intracellular transport The discussion is devoted to metals and nutrients where recent progress has been made and highlights the aspects of homeostasis and sensing signaling and regulation drawing parallels to other organisms including humans Finally the book identifies gaps in our current knowledge and lays out future research directions

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