



PHOTOBIOLOGY OF HIGHER PLANTS

Maurice S. McDonald

 WILEY

Photobiology Of Higher Plants

Christine Foyer



Photobiology Of Higher Plants:

Photobiology of Higher Plants Maurice S. McDonald, 2003-06-09 The Photobiology of Higher Plants offers a comprehensive balanced coverage of both photosynthesis including physiology and global aspects and photomorphogenesis in plants An accessible student friendly approach to the subject is taken providing the reader with a useful historical perspective and showing how this fascinating subject has evolved All aspects of plant biochemistry and plant physiology are included with the fundamentals of the subject rigorously covered Each chapter includes numerous references to provide a useful starting point for those wishing to learn more about the subject Provides combined coverage of both photosynthesis and photomorphogenesis in plants Includes an extensive glossary designed to provide easy access to key terms Aimed at students in Botany Plant Science Agriculture and Forestry A useful reference for postgraduates and researchers working in the field

Concepts in Photobiology G.S. Singhal, G. Renger, S.K. Sopory, K.D. Irrgang, Govindjee, 2012-12-06 Photobiology is an important area of biological research since a very large number of living processes are either dependent on or governed by light that we receive from the Sun Among various subjects photosynthesis is one of the most important and thus a popular topic in both molecular and organismic biology and one which has made a considerable impact throughout the world since almost all life on Earth depends upon it as a source of food fuel and oxygen However for growth of plants light is equally essential and research on photomorphogenesis has revealed exciting new developments with the application of newer molecular biological approaches The present book brings together and integrates various aspects of photosynthesis biology of pigments light regulation of chloroplast development nuclear and chloroplast gene expression light signal transduction other photomorphogenetic processes and some photoecological aspects under one cover The chapters cover biochemical and molecular discussions of most of the above topics in a comprehensive manner and include a wide range of hot topics that are currently under investigation in the field of photobiology of cyanobacteria algae and plants The authors of this book are selected international authorities in their fields from USA Europe Australia and Asia The book is designed primarily to be used as a text book by graduates and post graduates It is however also intended to be a resource book for new researchers in plant photobiology Several introductory chapters are designed as suitable reading for undergraduate courses in integrative and molecular biology biochemistry and biophysics

Physicochemical and Environmental Plant Physiology Park S. Nobel, 2005-01-24 Physiology which is the study of the function of cells organs and organisms derives from the Latin physiologia which in turn comes from the Greek physi or physio a prefix meaning natural and logos meaning reason or thought Thus physiology suggests natural science and is now a branch of biology dealing with processes and activities that are characteristic of living things Physicochemical relates to physical and chemical properties and Environmental refers to topics such as solar irradiation and wind Plant indicates the main focus of this book but the approach equations developed and appendices apply equally well to animals and other organisms We will specifically consider water relations solute

transport photosynthesis transpiration respiration and environmental interactions A physiologist endeavors to understand such topics in physical and chemical terms accurate models can then be constructed and responses to the internal and the external environment can be predicted Elementary chemistry physics and mathematics are used to develop concepts that are key to understanding biology the intent is to provide a rigorous development not a compendium of facts References provide further details although in some cases the enunciated principles carry the reader to the forefront of current research Calculations are used to indicate the physiological consequences of the various equations and problems at the end of chapters provide further such exercises Solutions to all of the problems are provided and the appendixes have a large list of values for constants and conversion factors at various temperatures

Mechanisms of Environmental Stress Resistance in Plants Amarjit S. Basra, Ranjit K. Basra, 2022-02-26 Plant growth and productivity are limited in many areas of the world by a wide variety of environmental stresses This book discusses progress made toward the major goal of uncovering the plant resistance mechanisms to biotic and abiotic stresses the purpose being to utilise this knowledge in genetic modification of plants for achieving improved stress resistance This volume achieves a new synthesis in considering the mechanisms of resistance at various levels of organisation from individual cells and tissues through whole plants to communities Chapters are written by internationally acknowledged experts who have a wealth of research and teaching experience With comprehensive and up to date coverage this book analyses many outstanding problems and poses important questions for future research

Photophysiology Arthur C. Giese, 2013-10-22 Photophysiology Current Topics in Photobiology and Photochemistry Volume VIII is a collection of papers that discusses the photobiological phenomena of plants This collection presents comparative studies on photosynthesis blending at the molecular cellular and plant levels Some papers also analyze the photosynthesis in the green algae by using genetic methods as well as the physical separation of photosynthetic system I from system II One paper discusses the role of cation fluxes in chloroplast activity including the measurement of ion fluxes in organelle suspensions Another paper investigates the inter relationships of photosynthesis and nitrogen fixation in a photosynthetic bacteria One paper reviews the electrical activities of individual cells and describes the techniques of recording evoked potentials or the minute electrical signals produced from sensory stimuli that are recordable from electrodes attached on the human scalp One paper considers the inhibitory effects of blue light and near ultraviolet radiation on the growth and respiration of some organisms Bio chemists photobiologists photochemists and researchers involved in plant biology and photophysiology will find this volume highly informative and challenging

Advances in Botanical Research, 1996-02-26 Harmonious integrated functioning of the whole plant system requires that its various cells tissues and organs should be able to communicate with each other transferring a range of information on environmental conditions physiological and microbial stresses etc In this volume of Advances in Botanical Research incorporating Advances in Plant Pathology three articles are concerned with different aspects of plant signalling McDonald and Davis consider how shoot

systems respond to drying and N deficient soil in terms of their stomatal behaviour and growth via the transmission of root derived chemical signals Malone considers the major hypotheses that have been proposed with particular attention being given to hydraulic pressure signals and the hydraulic dispersal of chemical signals At a different intracellular level of communication a wide variety of second messengers couple extracellular stimuli to a characteristic physiological response Webb et al Consider progress made in establishing similar roles for calcium in plant signalling in the context of the mammalian paradigms The effects of UV B radiation on plants have been extensively investigated in recent years Jordan considers progress in understanding the chain of events from perception of UV B to signal transduction and consequent changes in gene expression and regulation Smith and Smith assess the various hypotheses erected over the years to explain structure and function of the host parasite interface formed by vesicular arbuscular VA mycorrhizas an important and widespread mutualistic symbioses of a wide range of higher and some lower plants

UV-B Radiation Vijay Pratap Singh, Samiksha Singh, Sheo Mohan Prasad, Parul Parihar, 2017-05-01 Ultraviolet B UV B is electromagnetic radiation coming from the sun with a medium wavelength which is mostly absorbed by the ozone layer The biological effects of UV B are greater than simple heating effects and many practical applications of UV B radiation derive from its interactions with organic molecules It is considered particularly harmful to the environment and living things but what have scientific studies actually shown UV B Radiation From Environmental Stressor to Regulator of Plant Growth presents a comprehensive overview of the origins current state and future horizons of scientific research on ultraviolet B radiation and its perception in plants Chapters explore all facets of UV B research including the basics of how UV B's shorter wavelength radiation from the sun reaches the Earth's surface along with its impact on the environment's biotic components and on human biological systems Chapters also address the dramatic shift in UV B research in recent years reflecting emerging technologies showing how historic research which focused exclusively on the harmful environmental effects of UV B radiation has now given way to studies on potential benefits to humans Topics include UV B and its climatology UV B and terrestrial ecosystems Plant responses to UV B stress UV B avoidance mechanisms UV B and production of secondary metabolites Discovery of UVR8 Timely and important UV B Radiation From Environmental Stressor to Regulator of Plant Growth is an invaluable resource for environmentalists researchers and students who are into the state of the art research being done on exposure to UV B radiation

Topics in Photobiology, 1983 **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

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

General Concepts in Integrated Pest and Disease Management A. Ciancio, K.G. Mukerji, 2007-07-20 The proposal for this series originated during a short term visit of Professor Mukerji to the Plant Protection Institute of CNR at Bari Italy in November 2005 Both editors agreed on the need to produce a volume focusing on recent advances and achievements which changed the practice of crop protection in the last decade The opera rapidly evolved towards a long term editorial endeavour yielding a multidisciplinary series of five volumes In view of environmental and health concerns a determined effort is currently made in

almost any agroecosystem in the world to reduce and rationalize the use of chemicals pesticides fungicides nematocides etc and to manage pests pathogens more effectively This consciousness is not only related to the need of nourishing a still growing world population but also derives from the impact of side effects of farming like soil water and environmental contamination calling for a responsible conservation of renewable resources There are increasing expectations at the producers and consumers levels concerning low inputs agriculture and residues free food Disciplines like IPM IDM integrated pest management integrated disease management are now central to the science and technology of crop protection In the classical version of IPM IDM a pesticide fungicide is applied only when the pathogen population reaches a level that would lead to economic losses in the crop In other words classical IPM IDM concentrates on reducing the numbers of noxious organisms through the application of agrochemicals

UV Radiation in Global Climate Change Wei

Gao, Daniel L. Schmoldt, James R. Slusser, 2010-09-08 Numerous studies report that ultraviolet UV radiation is harmful to living organisms and detrimental to human health Growing concerns regarding the increased levels of UV B radiation that reach the earth's surface have led to the development of ground and space based measurement programs Further study is needed on the measurement modeling and effects of UV radiation The chapters of this book describe the research conducted across the globe over the past three decades in the areas of 1 current and predicted levels of UV radiation and its associated impact on ecosystems and human health as well as economic and social implications 2 new developments in UV instrumentation advances in calibration ground and satellite based measurement methods modeling efforts and their applications and 3 the effects of global climate change on UV radiation Dr Wei Gao is a Senior Research Scientist and the Director of the USDA UV B Monitoring and Research Program Natural Resource Ecology Laboratory Colorado State University Dr Gao is a SPIE fellow and serves as the Editor in Chief for the Journal of Applied Remote Sensing Dr Daniel L. Schmoldt is the National Program Leader for instrumentation and sensors at the National Institute of Food and Agriculture NIFA of the U S Department of Agriculture Dr Schmoldt served as joint Editor in Chief of the journal Computers Electronics in Agriculture from 1997 to 2004 Dr James R. Slusser retired in 2007 from the USDA UV B Monitoring and Research Program at Colorado State University He was active in the Society of Photo Optical Instrumentation Engineers the American Geophysical Union and the American Meteorological Society Dr Slusser is currently pursuing his interests in solar energy and atmospheric transmission

***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

A Molecular Approach To Primary Metabolism In Higher Plants Christine Foyer, 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 assimilation and carbon partitioning the second looking at compartmentation transport and whole plant interactions and the third to related metabolism to provide a comprehensive and up to date account of this subject

Reactive Oxygen, Nitrogen and Sulfur Species in Plants Mirza Hasanuzzaman, Vasileios Fotopoulos, Kamrun Nahar, Masayuki Fujita, 2019-07-02 Presents a multidisciplinary analysis of the integration among reactive oxygen species ROS reactive nitrogen species RNS and reactive sulfur species RSS Since plants are the main source of our food the improvement of their productivity is the most important task for plant biologists In this book leading experts accumulate the recent development in the research on oxidative stress and approaches to enhance antioxidant defense system in crop plants They discuss both the plant responses to oxidative stress and mechanisms of abiotic stress tolerance and cover all of the recent approaches towards understanding oxidative stress in plants providing comprehensive information about the topics It also discusses how reactive nitrogen species and reactive sulfur species regulate plant physiology and plant tolerance to environmental stresses **Reactive Oxygen Nitrogen and Sulfur Species in Plants Production Metabolism Signaling and Defense Mechanisms** covers everything readers need to know in four comprehensive sections It starts by looking at reactive oxygen species metabolism and antioxidant defense Next it covers reactive nitrogen species metabolism and signaling before going on to reactive sulfur species metabolism and signaling The book finishes with a section that looks at crosstalk among reactive oxygen nitrogen and sulfur species based on current research done by experts Presents the newest method for understanding oxidative stress in plants Covers both the plant responses to oxidative stress and mechanisms of abiotic stress tolerance Details the integration among reactive oxygen species ROS reactive nitrogen species RNS and reactive sulfur species RSS Written by

140 experts in the field of plant stress physiology crop improvement and genetic engineering Providing a comprehensive collection of up to date knowledge spanning from biosynthesis and metabolism to signaling pathways implicated in the involvement of RONSS to plant defense mechanisms Reactive Oxygen Nitrogen and Sulfur Species in Plants Production Metabolism Signaling and Defense Mechanisms is an excellent book for plant breeders molecular biologists and plant physiologists as well as a guide for students in the field of Plant Science **Stratopheric [i.e. Stratospheric] Ozone Depletion** J. Rozema,1999 **Photochemical and Photobiological Reviews** Kendric C. Smith,2012-12-06 The goals of the science of photobiology can be divided into four categories to develop I ways to optimize the beneficial effects of light on man and his environment 2 methods to protect organisms including man from the detrimental effects of light 3 photochemical tools for use in studies of life processes and 4 photochemical therapies in medicine To achieve these goals will require the knowledgeable collaboration of biologists chemists engineers mathematicians physicians and physicists because photobiology is a truly multidisciplinary science While a multidis ciplinary science is more intellectually demanding it also has a greater potential for unexpected breakthroughs that can occur when data from several areas of science are integrated into new concepts for theoretical or practical use Photochemical and Photobiological Reviews continues to provide in depth coverage of the many specialty areas of photobiology It is hoped that these reviews will provide an important service to the younger scientists in the field and to senior scientists in related fields because they provide a ready access to the recent literature in the field and more importantly they frequently offer a critical evaluation of the direction that the field is taking or suggest a redirection when appropriate Since it is important that this review series remain responsive to the needs of photochemists and photobiologists the Editor would value com ments and suggestions from its readers *Nitrogen Assimilation by Plants* J F Morot-Gaudry,2001-01-01 This publication contains the most important information acquired over the last twenty years in the area of nitrogen metabolism and envisages new strategies to improve plant species of agronomic value by devising new techniques for growing them **Plants and UV-B** Peter Lumsden,1997-08-14 A comprehensive review of this important aspect of environmental change Manipulation of Flowering J. G. Atherton,2013-09-17 Manipulation of Flowering presents the edited proceedings of the 45th University of Nottingham Easter School in Agricultural Science held at Sutton Bonington in England on April 7 10 1986 This book is organized into eight sections The first main section examines the measurement and prediction of flowering and analyzes how best to measure flowering when the aim is either to assist physiological interpretations or construct predictive models The following sections explore juvenility the nature of determination in meristems vernalization photoperiodic induction and flower evocation and initiation and development to anthesis Each of the main sections provides an analysis of the flowering problems and a critical view of how to achieve a better understanding and use of the physiology of flowering This book will be of interest to crop researchers plant physiologists geneticists and others interested in understanding flowering manipulation

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Photobiology Of Higher Plants Introduction

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