

A Novel Photosynthetic Biohybrid System for Microenvironment Regulation of Diabetes Retinopathy through Continuous Oxygen Supply and Nanozyme Cascade Reaction

Liyang Zhou, Kaiyue Lan, Xiaomin Huang, Yuyan Huang, Yingying Jin, Si Lu, Yishun Guo, Lili Su, Yaou Peng, Zhennv Deng, Jianhua Yang, Siyuan Qian, Wanqing Lou, Xiaoying Chu, Hanwen Guo, and Bailiang Wang*

According to International Diabetes Federation Diabetes Atlas statistics, diabetic retinopathy (DR) is the leading cause of vision loss in blinding diseases. The underlying cause of retinal vasculopathy progression in diabetic patients is hyperglycemia and hypoxia features in microvascular region. Hence, cyanobacteria are used as carriers to load both gold nanoparticles (Au NPs) with glucose oxidase-like activity and iridium nanoparticles (Ir NPs) with catalase-like activity, respectively (Cyano@Au@Ir). The Au NPs nanozyme first degrades glucose into hydrogen peroxide, which is further decomposed into H_2O and O_2 by the Ir NPs to complete the cascade hypoglycemic reaction. Based on the unique light transmittance of eyeball and the accumulation of light in the retinal area, the sustainable O_2 production by Cyano greatly alleviates the hypoxia of microenvironment, leading to the decrease of angiogenic growth factor and hypoxia-inducible factor expressions. Simultaneously, the highly expressed peroxide in the DR microenvironment can also be eliminated by Ir NPs for anti-inflammatory property. Furthermore, it is demonstrated in DR animal model that Cyano@Au@Ir significantly reduces neovascular progression and vascular leakage. This novel treatment mode fundamentally degrades blood glucose, continuously supplies O_2 , and scavenges free radicals for comprehensive microenvironment regulation, providing inspirations for solving fundus complications of DR.

1. Introduction

Diabetes is one of the most common and intractable chronic metabolic diseases. By 2021, 537 million people worldwide suffer from diabetes, and one person will die from it every 5 s.^[1] Acute complications of diabetes include diabetic ketoacidosis, hyperglycemia, hyperosmolality, lactic acidosis, etc. The pathogenesis is mainly due to severe lack of insulin activity and inappropriate elevation of glucocorticoid, resulting in hyperglycemia, which leads to disturbance of glucose, fat, and protein metabolism, and imbalance of water, electrolyte, and acid-base balance in the body. Chronic complications mainly including macrovascular and microvascular diseases, as well as neuropathy, are the main cause of disability and death in diabetes. Among them, diabetic retinopathy (DR) is one of the main microvascular complications, leading to a blindness rate up to 30%. Epidemiological surveys show that about 75–80% of diabetic patients who neglect blood glucose organization will develop DR within 15 years. As for the pathogenesis

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Regulations Of Photosynthesis

Gurbachan S. Miglani



Regulations Of Photosynthesis:

Regulation of Photosynthesis Eva-Mari Aro,B. Andersson,2006-04-11 This book covers the expression of photosynthesis related genes including regulation both at transcriptional and translational levels It reviews biogenesis turnover and senescence of thylakoid pigment protein complexes and highlights some crucial regulatory steps in carbon metabolism

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Handbook of Photosynthesis Mohammad Pessarakli,2005-03-29 Quite naturally photosynthesis has achieved massive amounts of attention in recent years Aside from being the most spectacular physiological process in plant growth it is actually the key to our dealing with the potentially cataclysmic accumulation of carbon dioxide in the earth s atmosphere Unfortunately while information is plentiful all this attention has resulted in a scattered database on photosynthesis with no contemporary starting point at least until now With the second edition of the Handbook of Photosynthesis Mohammad Pessarakli once again fills the need for an authoritative and balanced resource by assembling a team of experts from across the globe Together they have created a comprehensive reference that in a single volume includes important background information as well as the most recent research findings on photosynthesis Completely Revised with Several New Chapters The handbook a completely updated reworking of the critically acclaimed first edition details all of the photosynthetic factors and processes under both normal and stressful conditions covering lower and higher plants as well as related biochemistry and plant molecular biology Divided into fourteen sections for ease of reference with nearly 8000 bibliographic citations the handbook contains authoritative contributions from over 80 scientists It includes approximately 500 drawings photographs tables and equations all designed to reinforce and clarify important text material Regulation of Photosynthesis Eva-Mari Aro,B. Andersson,2001-07-31 This book covers the expression of photosynthesis related genes including regulation both at

transcriptional and translational levels It reviews biogenesis turnover and senescence of thylakoid pigment protein complexes and highlights some crucial regulatory steps in carbon metabolism **Regulation of Carbon Partitioning in Photosynthetic Tissue** Robert L. Heath,Jack Preiss,1985 **Library of Congress Subject Headings** Library of Congress. Cataloging Policy and Support Office,2009 **Library of Congress Subject Headings** Library of Congress,Library of Congress. Subject Cataloging Division,Library of Congress. Office for Subject Cataloging Policy,2013 Terrestrial Photosynthesis in a Changing Environment Jaume Flexas,Francesco Loreto,Hipólito Medrano,2012-07-19 An integrated guide to photosynthesis in an environmentally dynamic context covering all aspects from basic concepts to methodologies

Library of Congress Subject Headings Library of Congress. Office for Subject Cataloging Policy,1992 **Plant Stress Biology** Arindam Kuila,2020-12-09 This unique book covers the molecular aspects of plant stress and the various industrial applications Chapters cover many important topics in the biology of plant stress including morphological and physiological changes of plants due to accumulation of pollutants the types of stress for enhanced biofuel production from plant biomass plant adaptation due to different types of environmental stresses potential applications of microRNAs to improve abiotic stress tolerance in plants plant resistance to viruses and the molecular aspects photosynthesis under stress conditions plant responses to weeds pests pathogens and agrichemical stress conditions and plant responses under the stress of drought Key features Describes the different types of plant stress Details the current and possible applications of plant stress biology Presents several case studies that include applications of plant stress Explores plant stress biology for applications in biofuel science Plant Stress Biology Progress and Prospects of Genetic Engineering will be useful for researchers in diverse fields as well as for plant biologists environmental biologists faculty and students The book will also be helpful for further advancement of research in the area of plant stress biology **Photosynthesis and Respiratory Cycles during Environmental Stress Response in Plants** Aryadeep Roychoudhury,2022-12-29 This new volume aims to be the single source that discusses in a comprehensive and elaborate way the photosynthetic and respiratory mechanisms in plants under hostile situations and the proper mitigating strategies to continue uninterrupted photosynthesis and respiration under such situations Photosynthesis and respiration are the two main physiological processes for sugar biosynthesis and mobilization for driving all other vital functions This volume delivers a wealth of sound information on these processes for scientists researchers and academicians With chapters from renowned scientists researchers and global leaders this volume focuses on the effect of environmental stressors on photosynthetic pigments photosystems activities of photosynthetic enzymes and protein complexes PSII photochemistry carbon fixation pathways photosynthetic efficiency glycolytic and Krebs cycle pathways and ATP production and electron transport chain of plants The recovery of photosynthesis and respiration through application of phytohormones signaling molecules and other protective agents are also emphasized Genetic engineering to enhance photosynthetic efficiency is highlighted as well *Plant Metabolites and Regulation under Environmental Stress*

Parvaiz Ahmad, Mohammad Abass Ahanger, Vijay Pratap Singh, Durgesh Kumar Tripathi, Pravej Alam, Mohammed Nasser Alyemeni, 2018-03-19 **Plant Metabolites and Regulation Under Environmental Stress** presents the latest research on both primary and secondary metabolites. The book sheds light on the metabolic pathways of primary and secondary metabolites, the role of these metabolites in plants, and the environmental impact on the regulation of these metabolites. Users will find a comprehensive practical reference that aids researchers in their understanding of the role of plant metabolites in stress tolerance. Highlights new advances in the understanding of plant metabolism. Features 17 protocols and methods for analysis of important plant secondary metabolites. Includes sections on environmental adaptations and plant metabolites, plant metabolites and breeding, plant microbiome and metabolites, and plant metabolism under non-stress conditions. Probing Photosynthesis Mohammad Yunus, Uday Pathre, Prasanna Mohanty, 2014-04-21 A thorough understanding of the mechanisms of photosynthesis, regulation of structure and function, and the adaptive strategies of oxygenic photosynthetic organisms is central to any effort directed at improving crop productivity and providing sustainable agriculture. Photosynthesis is the most widely researched topic in plant science. Further probing of its mechanisms, regulation, and adaptation, employing a variety of modern tools and techniques, is imperative to gain a better insight of this very intricate process. Unravelling the cause of stress impairments and stress tolerance in plants would help in ensuring the optimum production of food, fibres, and fuels. Probing Photosynthesis represents the state of the art on photosynthesis and provides details of experimental approaches that have been adopted to understand the complex regulatory and adaptive processes. Its twenty-seven chapters have been divided into four sections: Evolution, structure and function, Biodiversity, metabolism and regulation, Stress and adaptations, and Techniques. With contributions from leading subject experts from Australia, Canada, France, Germany, India, Israel, Japan, Sweden, Switzerland, the UK, and USA, this comprehensive treatise shall interest researchers and students from all disciplines of plant science and provide a useful reference for courses in plant biochemistry, crop physiology, plant biotechnology, and environmental botany. **Physiological Regulation and Homeostasis Among Coral Holobiont Partners** Zhi Zhou, Senjie Lin, Kefu Yu, 2022-05-31 **Photosynthesis Under Fluctuating Light** Michele Grieco, Fiamma Longoni, Stefano Santabarbara, Jeremy Harbinson, 2023-06-27 Photosynthesis is a fundamental process that drives almost all life on Earth and is the motor of agriculture and food production. For several decades, its basic functioning has been investigated mainly at steady state under constant illumination. This approach was necessary to understand the basic mechanisms underlying the light reactions and carbon assimilation. However, this condition does not reflect the natural environment where plants experience changes in both the intensity and spectrum of irradiance in a wide range of time scales, spanning from seconds to several hours. In recent years, it has become clear that the processes allowing the photosynthetic apparatus to adapt to changes in irradiance are of paramount importance to plant fitness and productivity. Therefore, increased research effort has been directed towards studying the regulation of photosynthetic activity under fluctuating light.

ie upon the variation of light intensity or light spectrum This is important for understanding how photosynthetic organisms cope with natural environmental conditions Fluctuating light itself constitutes a potentially stressful condition because depending on the scale of the fluctuation it can transiently generate extreme redox and transthylakoid potentials and forces the photosynthetic machinery to be re adjusted Not surprisingly plants have evolved several mechanisms allowing a prompt response to these normal environmental events In natural environments photosynthetic organisms often have to cope with fluctuating light while experiencing other kinds of stress such as heat nutrient deficiency drought and pathogen attacks Therefore the study of combined stresses is essential for understanding the acclimation to realistic environmental conditions

Advances In Plant Physiology (Vol. 4) A. Hemantaranjan, 2002-07-01 Researches have made tremendous progress in the area of Plant Physiology greatly increasing our understanding of living processes necessary for biotechnological research Different volumes of the treatise Advances in Plant Physiology covers the entire spectrum of Plant Physiology including the Plant Molecular Biology in order to encourage meaningful research in the coming twenty first century The true endeavor in this direction is the result of comprehensive authoritative and timely publication of this valuable treatise provides the reader with the most recent information views and references focused on individual topics through a rich collection of reviews contributed by pioneer workers and of those actively engaged in the studies of various specific areas in different parts of the world with extensive experience established record of eminence and noted authorities In fact this treatise is a treasure for interdisciplinary exchange of information and the approach to topic ranges from theoretical to applied molecular to organismic and single to multivariable systems Apart from fulfilling the need of this treatise for research teams and scientists actively working in the areas of plant physiology biochemistry and plant molecular biology in universities institutes and research laboratories throughout the world it would be extremely a useful book and a voluminous reference material for acquiring advanced knowledge by students in response to innovative courses in Plant Physiology Plant Biochemistry Agronomy Genetics and Plant Breeding Genetic Engineering Microbiology Plant Biotechnology and Botany Over eighteen 18 chapters of Vol 1 extensively elucidate the needful topics of Biological Nitrogen Fixation Plant Cell and Tissue Culture Plant Metabolism certain rare Techniques in Plant Physiology Herbicides Physiology Plant Growth Regulators Physiology of Rooting Tree Physiology Stress Physiology in part and Growth and Development Hopefully Vol II will comprise other important topics

Oxygenic Photosynthesis: The Light Reactions Donald R. Ort, Charles F. Yocum, 1996-08-31 Structure and function of the components of the photosynthetic apparatus and the molecular biology of these components have become the dominant themes in advances in our understanding of the light reactions of oxygenic photosynthesis Oxygenic Photosynthesis The Light Reactions presents our current understanding of these reactions in thylakoid membranes Topics covered include the photosystems the cytochrome b6 f complex plastocyanin ferredoxin FNR light harvesting complexes and the coupling factor Chapters are also devoted to the structure of thylakoid membranes their lipid composition

and their biogenesis Updates on the crystal structures of cytochrome f ATP synthase and photosystem I are presented and a section on molecular biology and evolution of the photosynthetic apparatus is also included The chapters in this book provide a comprehensive overview of photosynthetic reactions in eukaryotic thylakoids The book is intended for a wide audience including graduate students and researchers active in this field as well as those individuals who have interests in plant biochemistry and molecular biology or plant physiology Epigenetics and Biological Processes Gurbachan S.

Miglani,2024-07-08 Epigenetics and Biological Processes deals with epigenetic control of various plant processes such as chromatin modification biomacromolecule interactions cell cycle DNA replication DNA recombination DNA damage response transcription RNA processing and translation initiation host restriction and modification heterochromatin euchromatin centromere functions telomeric maintenance transposon activation transposon silencing transposon reactivation photosynthesis respiration transpiration polyploidisation heterosis homeostasis cytoplasmic male sterility self incompatibility circadian clocks epigenetic imprinting dosage compensation somaclonal variation plant stress response plant microbe interactions disease responsive genes and sustainable green revolution through epigenetics Understanding epigenetics of these plant processes is essential for using science of epigenetics as a tool for crop improvement This book is primarily designed as a textbook for senior upper undergraduate B Sc Agri B Sc Biotechnology and B Tech Biotechnology and graduate level M Sc and Ph D students studying epigenetics in conventional agricultural and medical universities Teachers and researchers in any discipline of life sciences agricultural sciences medicine and biotechnology Abiotic Stress Signaling in Plants: Functional Genomic Intervention Girdhar K. Pandey,Manoj Prasad,Amita Pandey,Maik Boehmer,2016-08-08 Abiotic stresses such as high temperature low temperature drought and salinity limit crop productivity worldwide Understanding plant responses to these stresses is essential for rational engineering of crop plants In Arabidopsis the signal transduction pathways for abiotic stresses light several phytohormones and pathogenesis have been elucidated A significant portion of plant genomes Arabidopsis and rice were mostly studied encodes for proteins involves in signaling such as receptor sensors kinases phosphatases transcription factors and transporters channels Despite decades of physiological and molecular effort knowledge pertaining to how plants sense and transduce low and high temperature low water availability drought water submergence microgravity and salinity signals is still a major question for plant biologist One major constraint hampering our understanding of these signal transduction processes in plants has been the lack or slow pace of application of molecular genomic and genetics knowledge in the form of gene function In the post genomic era one of the major challenges is investigation and understanding of multiple genes and gene families regulating a particular physiological and developmental aspect of plant life cycle One of the important physiological processes is regulation of stress response which leads to adaptation or adjustment in response to adverse stimuli With the holistic understanding of the signaling pathways involving not only one gene family but multiple genes or gene families plant biologist can lay a foundation for designing and generating

future crops which can withstand the higher degree of environmental stresses especially abiotic stresses which are the major cause of crop loss throughout the world without losing crop yield and productivity Therefore in this e Book we intend to incorporate the contribution from leading plant biologists to elucidate several aspects of stress signaling by functional genomics approaches

Improving Stress Resilience in Plants Mohammad Abass Ahanger,Javaid Akthar Bhat,Parvaiz Ahmad,Riffat John,2023-11-23

Improving Stress Resilience in Plants Physiological and Biochemical Basis and Utilization in Breeding addresses the urgent need for improved understanding of major plant stress tolerance mechanisms the identification of the genes and gene products that are key to improving those mechanisms and means of optimizing those genes through molecular approaches With a focus on plant physiological and biochemical attributes at both cellular and whole plant levels this book includes the latest information on crosstalk between the various signaling molecules and quantitative trait locus QTL Further it explores the extension of these mechanisms to breeding approaches confirming overall understanding and inspiring further research Written by a team of global experts and presented in three thematic sections the book provides insights into physical adaptations metabolism and pathways and breeding techniques including CRISPR and conventional approaches to reduce the negative effects of stresses and improve crop yield even under stress conditions

Improving Stress Resilience in Plants Physiological and Biochemical Basis and Utilization in Breeding is ideal for researchers academics and advanced students seeking to improve stress tolerance among crop plants and developing key future strategies for sustainable food production Explores key strategies including signaling molecules and Quantitative Trait Locus QTLs Highlights stress mitigating agents for improved crop yield Provides an integrated and holistic overview enabling and inspiring further research toward improved food security

Regulations Of Photosynthesis Book Review: Unveiling the Power of Words

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