

# 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.<sup>[1]</sup> 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

L. Zhou, K. Lan  
Department of Ophthalmology  
Aier Eye Hospital of Wuhan University  
Wuhan 430000, China

L. Zhou, X. Huang, Y. Huang, Y. Jin, S. Lu, Y. Guo, L. Su, Y. Peng, Z. Deng,  
J. Yang, S. Qian, W. Lou, X. Chu, H. Guo, B. Wang  
National Engineering Research Center of Ophthalmology and Optometry  
Eye Hospital  
Wenzhou Medical University  
Wenzhou 325027, China  
E-mail: blwang@wzmu.edu.cn

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State Key Laboratory of Ophthalmology  
Optometry and Visual Science  
Eye Hospital  
Wenzhou Medical University  
Wenzhou 325027, China

B. Wang  
NMPA Key Laboratory for Clinical Research and Evaluation of Medical  
Devices and Drug for Ophthalmic Diseases  
Eye Hospital  
Wenzhou Medical University  
Wenzhou 325027, China

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# Regulations Of Photosynthesis

**Gabriela Steier, Kiran K. Patel**



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**Carbon Dioxide and Metabolic Regulations** G. Nahas, K.E. Schaeffer, 2013-03-07 Wallace O Fenn 1893 1971 The proceedings of the satellite sym encompass the whole of physiology His con posium of the XXV International Congress tributions over 50 years covered four main of Physiology on C0 and Metabolic eras in the development of physiology 2 Regulations are dedicated to Wallace muscle electrolyte respiratory and hyper Osgood Fenn Dr Fenn had agreed to be baric study honorary conference chairman of this meet The study of muscle contraction started ing but was unable to attend because of the in 1922 when Fenn became the first American to work in A V Hill s laboratory Fenn illness from which he died two months later concluded this work by saying There on September 20 1971 Wallace O Fenn was born of an old is a fairly good quantitative relation between New England family in Lanesboro Massa the heat production of muscles and the work chusetts on August 27 1893 His father was which they perform and a muscle which does dean of the Divinity School at Harvard ork liberates ipso facto an extra supply of University It was at Harvard that Fenn energy which does not appear in an isometric received his A B 1914 and his M S 1916 contraction Fenn 1923 A V Hill referred to this as the Fenn effect and so He then started his Ph D thesis there under the plant physiologist W J V Osterhout it has been known ever since

Physiological Regulation and Homeostasis Among Coral Holobiont Partners Zhi Zhou, Senjie Lin, Kefu Yu, 2022-05-31

*Library of Congress Subject Headings* Library of Congress, Library of Congress. Subject Cataloging Division, Library of Congress. Office for Subject Cataloging Policy, 2013 **Library of Congress Subject Headings** Library of Congress.

Cataloging Policy and Support Office, 2009 **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      **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

**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      **Library of Congress Subject Headings** Library of Congress. Office for Subject Cataloging Policy, 1991      *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

**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

*Regulation of Photosynthesis* Eva-Mari Aro, Bertil Andersson, 2004

**P-Z** Library of Congress. Office for Subject Cataloging Policy, 1990

*Chlamydomonas: Molecular Genetics and Physiology* Michael Hippler, 2017-12-20 This Microbiology Monographs volume covers the current and most recent advances in genomics and genetics biochemistry physiology and molecular biology of *C. reinhardtii* Expert international scientists contribute with reviews on the genome post genomic techniques the genetic toolbox development as

well as new insights in regulation of photosynthesis and acclimation strategies towards environmental stresses and other structural and genetic aspects including applicable aspects in biotechnology and biomedicine Powerful new strategies in functional genomic and genetics combined with biochemical and physiological analyses revealed new insights into Chlamydomonas biology

**Role of Silicon in Plants** Rupesh K. Deshmukh, Jian Feng Ma, Richard R. Bélanger, 2017-12-06

Silicon Si is gaining increased attention in the farming sector because of its beneficial effects observed in several crop species particularly under stress conditions The magnitude of benefits is predominantly observed in plant species that can accumulate Si above a certain threshold Therefore deciphering the molecular mechanisms and genetic factors conferring a plant ability to take up silicon is necessary Along these lines several efforts have been made to identify the specific genes regulating Si uptake and distribution in plant tissues This information finds its usefulness in identifying Si competent species and could eventually lead to improving this ability in low accumulating species The successful exploitation of Si in agriculture depends highly on the understanding of different Si properties including plant available Si from the soil transport within tissues deposition in planta and Si effect on different metabolic and physiological processes In addition a better comprehension of external factors influencing Si uptake and deposition in plant tissue remains important A plant can take up Si efficiently only in the form of silicic acid and most soils despite containing high concentrations of Si are deficient in plant available Si Consequently soil amendment with fertilizers rich in plant available Si is now viewed as an affordable option to protect plants from the biotic and abiotic stresses and achieve more sustainable cropping management worldwide Articles compiled in the present research topic touch upon several aspects of Si properties and functionality in plants The information will be helpful to further our understanding of the role of Si and contribute to exploit the benefits plants derive from it

**Library of Congress Subject Headings: P-Z** Library of Congress. Subject Cataloging Division, 1989 Library of Congress Subject Headings: F-O Library of Congress. Subject Cataloging Division, 1988

**International Farm Animal, Wildlife and Food Safety Law** Gabriela Steier, Kiran K. Patel, 2017-01-09 This volume is an inspiring and breakthrough piece of academic scholarship and the first of its kind featuring a comprehensive reader friendly approach to teach the intricacies of the various aspects of international farm animal wildlife conservation food safety and environmental protection law The selected focus areas are grouped in sections such as agrobiodiversity fishing and aquaculture pollinators and pesticides soil management industrial animal production and transportation and international food trade Farm animal welfare environmental protection biodiversity conservation and food safety are the core of the selected chapters Every chapter provides real world examples to make the complex field easy to understand With its systematic approach this book is devoted to anyone interested in the subject becomes a valuable resource for professionals working in food regulation and provides a solid foundation for courses and master s programs in animal law environmental policy food and agriculture law and regulation of these subjects around the world Through its emphasis on sustainable food production this work offers a

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web if the meaning is not exactly the same the words have very similar meanings in the context when two words are synonyms of one another we call them synonymous words let us take the example of the word jump the words leap bounce hop are all synonymous to jump i e they have the same or very similar meanings