### Studies in Plant Science, 7

# Redesigning Rice Photosynthesis to Increase Yield

### J.E. Sheehy, P.L. Mitchell and B. Hardy (Editors)











## Redesigning Rice Photosynthesis To Increase Yield

J. E. Sheehy, Bill Hardy, Peter L. Mitchell

#### **Redesigning Rice Photosynthesis To Increase Yield:**

Redesigning Rice Photosynthesis to Increase Yield B. Hardy, J.E. Sheehy, P.L. Mitchell, 2000-11-07 Increasing rice yields to keep pace with the growing population is the focus of this work Factors controlling yield are discussed from the agronomic to the molecular level Redesigning Rice Photosynthesis to Increase Yield J. E. Sheehy, Bill Hardy, Peter L. Mitchell, 2000

<u>Charting New Pathways to C4 Rice</u> J. E. Sheehy, Peter L. Mitchell, Bill Hardy, 2007 Setting the science C4 rice fron theory to practice Single cell c4 systems The background and how C4 rice can be delivered Setting up the consortium

Redesigning rice photosynthesis to increase yield: proceedings of the Workshop on the Quest to Reduce
Hunger: Redesigning Rice Photosynthesis, held in Los Baños, Philippines, 30 November-3 December 1999 Bill
Hardy, J. E. Sheehy, Peter L. Mitchell, 2000 Increasing Productivity of Intensive Rice Systems Through Site-Specific
Nutrient Management A. Dobermann (Ed), C. Witt, David Charles Dawe, 2004 Rice Science, 2003 Advances in
Agronomy, 2007-01-05 Advances in Agronomy continues to be recognized as a leading reference and a first rate source for
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Improvement of Crop Plants for Industrial End Uses P. Ranalli, 2007-05-16 This book provides concerns useful to promote an increase of the productivity of crops by using functional genomics Fundamental thematics have been addressed metabolic engineering plant breeding tools renewable biomass for energy generation fibres and composites and biopharmaceuticals The gained know how is relevant to identify bottlenecks in the major production chains and to propose actions for moving these issues forward **Complementary Strategies to Raise Wheat Yield Potential**, Wolf Prize In Agriculture Ilan Chet, 2009-05-04 This specially compiled one of a kind volume contains exemplary contributions from Wolf Prize laureates in agriculture There is no higher prize than the Wolf Prize Thus the reader has the opportunity to learn from the very top in various aspects of this field Indeed the book includes a list of publications and the most important papers in plant and animal breeding genetics biochemistry and plant protection biotechnology as well as chemistry and the physics of soils In this volume one can learn about the developments in particular fields in agriculture at the highest level through the scientific activities of its world class contributors The Emerald Planet David Beerling, 2017 The Emerald Planet is the tale of our world's past and future as revealed by plants Over the immensity of geological time plants have been powerful agents of change shaping the climate the planet and affecting the evolutionary path of all life Here David Beerling tells how Rice is Life Scientific Perspectives for the 21st Century ,2005 Water Use Efficiency in Plant Biology Mark Bacon, 2009-02-12 This is the first volume to provide comprehensive coverage of the biology of water use efficiency at molecular cellular whole plant

and community levels While several works have included the phenomenon of water use efficiency and others have concentrated on an agronomic framework this book represents the first detailed treatment with a biological focus The volume sets out the definitions applicable to water use efficiency the fundamental physiology and biochemistry governing the efficiency of carbon vs water loss the environmental regulation of this process and the detailed physiological basis by which the plant exerts control over such efficiency It is aimed at researchers and professionals in plant physiology biochemistry molecular biology developmental biology and agriculture It will also inform those involved in formulating research and development policy in this topic around the world Agricultural Sustainability Gurbir Bhullar, Navreet K. Bhullar, 2012-12-31 Collaboratively written by top international experts and established scientists in various fields of agricultural research this book focuses on the state of food production and sustainability the problems with degradation of valuable sources of land water and air and their effects on food crops the increasing demand of food resources and the challenges of food security worldwide The book provides cutting edge scientific tools and methods of research as well as solid background information that is accessible for those who have a strong interest in agricultural research and development and want to learn more on the challenges facing the global agricultural production systems Provides cutting edge scientific tools and available technologies for research Addresses the effects of climate change and the population explosion on food supply and offers solutions to combat them Written by a range of experts covering a broad range of agriculture related disciplines Abiotic Stress in Plants Arun Shanker, B. Venkateswarlu, 2011-09-22 World population is growing at an alarming rate and is anticipated to reach about six billion by the end of year 2050 On the other hand agricultural productivity is not increasing at a required rate to keep up with the food demand The reasons for this are water shortages depleting soil fertility and mainly various abiotic stresses The fast pace at which developments and novel findings that are recently taking place in the cutting edge areas of molecular biology and basic genetics have reinforced and augmented the efficiency of science outputs in dealing with plant abiotic stresses In depth understanding of the stresses and their effects on plants is of paramount importance to evolve effective strategies to counter them This book is broadly dived into sections on the stresses their mechanisms and tolerance genetics and adaptation and focuses on the mechanic aspects in addition to touching some adaptation features The chief objective of the book hence is to deliver state of the art information for comprehending the nature of abiotic stress in plants We attempted here to present a judicious mixture of outlooks in order to interest workers in all areas of plant sciences Biofuel Crops Bharat P. Singh, 2013 Providing comprehensive coverage on biofuel crop production and the 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 each crop Physiology and Biotechnology Integration for Plant Breeding Henry T. Nguyen, Abraham Blum, 2004-01-14 Global demand for wheat rice corn and other essential grains is expected to steadily rise over the next twenty years Meeting this demand by increasing production through increased land use is not very likely and while better crop management may make a marginal difference most agriculture experts agree that this anticipated deficit **Plant Stress Physiology** Akbar Hossain, 2021-01-20 Due to the changing climate food security for the increasing population has raised a great threat globally Therefore it is imperative to find alternate solutions for enhancing agricultural sustainability through plant stress physiology The concept of plant stress physiology has been well established over the past 60 years due to the increasing trends of environmental stress Researchers have found that crop stress physiology has an association with two main areas one is concerned with agronomy the other concerned with plant breeding The contents of the current book emphasize the integration of both breeding and agronomy strategies to ensure agricultural productivity and environmental safety under changing climate **Resources Use Efficiency in Agriculture Sandeep** Kumar, Ram Swaroop Meena, Manoj Kumar Jhariya, 2020-09-18 Achieving zero hunger and food security is a top priority in the United Nations Development Goals UNDGs In an era characterized by high population growth and increasing pressure on agricultural systems efficiency in the use of natural resources has become central to sustainable agricultural practices Fundamentally speaking eco efficiency is about maximizing agricultural outputs in terms of quantity and quality using less land water nutrients energy labor or capital The concept of eco efficiency involves both the ecological and economic aspects of sustainable agriculture It is therefore essential to understand the interaction of ecosystem constituents within the extensive agricultural landscape as well as farmers economic needs This book examines the latest eco efficient practices used in agro systems Drawing upon research and examples from around the world it offers an up to date overview together with insights into directly applicable approaches for poly cropping systems and landscape scale management to improve the stability of agricultural production systems helping achieve food security The book will be of interest to educators researchers climate change scientists capacity builders and policymakers alike It can also be used as additional reading material for undergraduate and graduate courses on agriculture forestry soil science and the environmental sciences

Rice Research Bob Hill, International Rice Research Institute, 2001

This book delves into Redesigning Rice Photosynthesis To Increase Yield. Redesigning Rice Photosynthesis To Increase Yield is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Redesigning Rice Photosynthesis To Increase Yield, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
  - Chapter 1: Introduction to Redesigning Rice Photosynthesis To Increase Yield
  - Chapter 2: Essential Elements of Redesigning Rice Photosynthesis To Increase Yield
  - Chapter 3: Redesigning Rice Photosynthesis To Increase Yield in Everyday Life
  - Chapter 4: Redesigning Rice Photosynthesis To Increase Yield in Specific Contexts
  - $\circ$  Chapter 5: Conclusion
- 2. In chapter 1, the author will provide an overview of Redesigning Rice Photosynthesis To Increase Yield. The first chapter will explore what Redesigning Rice Photosynthesis To Increase Yield is, why Redesigning Rice Photosynthesis To Increase Yield is vital, and how to effectively learn about Redesigning Rice Photosynthesis To Increase Yield.
- 3. In chapter 2, this book will delve into the foundational concepts of Redesigning Rice Photosynthesis To Increase Yield. This chapter will elucidate the essential principles that must be understood to grasp Redesigning Rice Photosynthesis To Increase Yield in its entirety.
- 4. In chapter 3, this book will examine the practical applications of Redesigning Rice Photosynthesis To Increase Yield in daily life. The third chapter will showcase real-world examples of how Redesigning Rice Photosynthesis To Increase Yield can be effectively utilized in everyday scenarios.
- 5. In chapter 4, this book will scrutinize the relevance of Redesigning Rice Photosynthesis To Increase Yield in specific contexts. This chapter will explore how Redesigning Rice Photosynthesis To Increase Yield is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, this book will draw a conclusion about Redesigning Rice Photosynthesis To Increase Yield. This chapter will summarize the key points that have been discussed throughout the book.
  - The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Redesigning Rice Photosynthesis To Increase Yield.

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