

New and Notable titles in Rice and Crop Science 2011

RICE PRODUCTION TECHNOLOGY IN CHINA

edited by **Defeng Zhu** (*China National Rice Research Institute, China*)

Rice is a major staple food in China. Therefore, food security means rice security. With the development of the economy, labor transfer and use of new-bred rice varieties, rice cropping systems have been modified for adaptation and new rice production technologies have been innovated with efficient use of input and labor savings to improve rice yield and quality.

This important work describes rice zones, the shift of rice-based cropping systems and evolution of rice production technologies in different rice zones and compiles a large amount of unpublished data and reports. It also reviews emerging knowledge-intensive and widely applied technologies for rice production, as well as decision aids and innovative approaches for improved nutrient and water management in rice.

The scope is thus broad enough to be relevant to any professional in the rice production industry. Students seeking a comprehensive review of the state-of-the-art will also find this volume convenient and complementary to their studies.

Readership: Rice scientists, agronomists, agriculturists, rice breeders, crop consultants, extension workers, and agriculture students.

300pp	May 2012	
978-981-4324-00-7	US\$98	£61
978-981-4324-01-4(ebook)	US\$127	

HYBRID RICE SEED PRODUCTION

Theories and Techniques

edited by **Shihua Cheng, Liyong Cao & Haipeng Zhou** (*China National Rice Research Institute, China*)

Extensive research has established that hybrid rice has more than 20% yield advantage over improved inbred varieties. Increasing seed production yields guarantees the quantity and quality of hybrid rice seed required for hybrid rice production in China, hence decreasing the costs for hybrid rice seed production and eventually facilitating the fast and stable development of hybrid rice production in China.

Due to the complexity of hybrid rice seed production as well as the undeveloped theoretic basis, very few monographs on hybrid rice seed production have been published. This timely book elaborates the principles, practice and experience of hybrid rice seed production in China, covering the current status and progress of utilization of rice heterosis and techniques for three-line, two-line hybrid rice seed production, etc.

Readership: Agronomists, agriculturists, rice breeders, geneticists, technicians involved in rice research, and students majoring in agronomy/agriculture.

250pp	Apr 2012	
978-981-4295-34-5	US\$93	£64
978-981-4295-35-2(ebook)	US\$121	

IN SEARCH OF BIOHAPPINESS

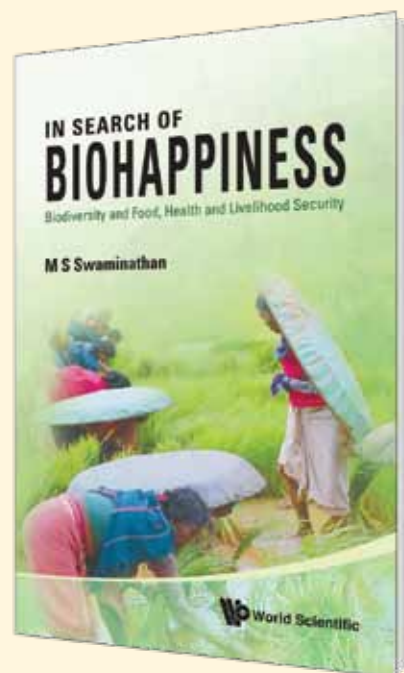
Biodiversity and Food, Health and Livelihood Security

by **M S Swaminathan** (*M S Swaminathan Research Foundation, India*)

This book describes how an era of biohappiness, based on the conservation and sustainable and equitable use of biodiversity, can be launched. It deals with all aspects of conservation such as *in situ*, *ex situ* and community conservation, and also covers conservation issues relating to mangroves and other coastal bioresources, whose importance has grown with the emerging possibility of sea-level rise from global warming. The book includes concrete examples of how local tribal families have taken to the establishment of gene, seed, grain and water banks in villages, thus linking conservation, cultivation, consumption and commerce in a mutually-reinforcing manner.

Readership: Environmentalists and those in the general public interested in the environment and its various aspects such as sustainability, climate change and conservation.

184pp	Mar 2011	
978-981-4329-32-3	US\$88	£55
978-981-4329-33-0(ebook)	US\$114	



New and Notable titles in Rice and Crop Science 2011

:: Bestseller

Rice Genetics Collection - Vol. 1
RICE GENETICS I (In 2 Parts)
 edited by **Stephen J Banta** (*International Rice Research Institute, Philippines*)

Rice Genetics I contains 77 chapters from various contributors on topics dealing with rice genetic research, including systematics and evolution; varietal diversity and reproductive barriers; karyotype, polyploids, and trisomics; linkage maps; genetics of morphological and physiological traits; cytoplasmic male sterility and fertility restoration; mutagenesis; tissue and cell culture; and genetic engineering.

Readership: Rice scientists/researchers, crop science specialists, and agriculture professionals and students.

Set	952pp	Apr 2008
978-981-281-865-2(pbk)	US\$140	£92
978-981-281-426-5(ebook)	US\$182	



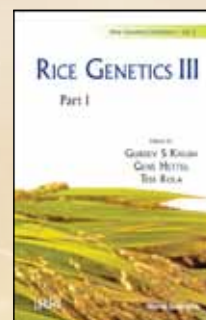
:: Bestseller

Rice Genetics Collection - Vol. 3
RICE GENETICS III (In 2 Parts)
 edited by **Gurdev S Khush, Gene Hettel & Tess Rola** (*International Rice Research Institute, Philippines*)

Rice Genetics III contains 138 chapters from various contributors on topics dealing with rice genetic research, including varietal differentiation and evolution; genetics of morphological and physiological traits and disease resistance; cytogenetics; molecular genetics of cytoplasmic male sterility; transformation; genetic diversity in pathogen populations; and rice research priorities.

Readership: Rice scientists/researchers, crop science specialists, and agriculture professionals and students.

Set	1028pp	Apr 2008
978-981-281-867-6(pbk)	US\$238	£157
978-981-281-428-9(ebook)	US\$309	



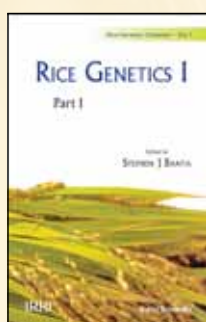
:: Bestseller

Rice Genetics Collection - Vol. 1
RICE GENETICS I (In 2 Parts)
 edited by **Stephen J Banta** (*International Rice Research Institute, Philippines*)

Rice Genetics I contains 77 chapters from various contributors on topics dealing with rice genetic research, including systematics and evolution; varietal diversity and reproductive barriers; karyotype, polyploids, and trisomics; linkage maps; genetics of morphological and physiological traits; cytoplasmic male sterility and fertility restoration; mutagenesis; tissue and cell culture; and genetic engineering.

Readership: Rice scientists/researchers, crop science specialists, and agriculture professionals and students.

Set	952pp	Apr 2008
978-981-281-865-2(pbk)	US\$221	£146
978-981-281-426-5(ebook)	US\$287	



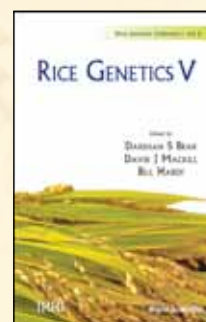
:: Bestseller

Rice Genetics Collection - Vol. 5
RICE GENETICS V
 edited by **Darshan S Brar, David J Mackill & Bill Hardy** (*International Rice Research Institute, Philippines*)

Rice Genetics V contains 23 chapters from various contributors on topics dealing with rice genetic research, including rice as a model genome for cereal research, structural genomics and resources, developmental biology and gene regulation, applied genetics, and functional genomics and rice improvement.

Readership: Rice researchers, crop science specialists, agriculture professionals and students.

368pp	Jun 2007	
978-981-270-772-7	US\$140	£92
978-981-4271-65-3(pbk)	US\$97	£64
978-981-270-881-6(ebook)	US\$126	



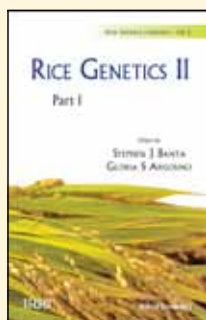
:: Bestseller

Rice Genetics Collection - Vol. 2
RICE GENETICS II (In 2 Parts)
 edited by **Stephen J Banta & Gloria S Argosino** (*International Rice Research Institute, Philippines*)

Rice Genetics II contains 65 chapters from various contributors on topics dealing with rice genetic research, including varietal differentiation and evolution; genetic markers, linkage groups, and aneuploids; tissue and cell culture; molecular genetics of cytoplasmic and nuclear genomes, rice proteins, and disease resistance; RFLP analysis of rice genomes; and transformation techniques.

Readership: Rice scientists/researchers, crop science specialists, and agriculture professionals and students.

Set	872pp	Apr 2008
978-981-281-866-9(pbk)	US\$205	£135
978-981-281-427-2(ebook)	US\$267	



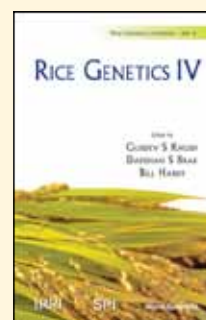
:: Bestseller

Rice Genetics Collection - Vol. 4
RICE GENETICS IV
 edited by **Gurdev S Khush, Darshan S Brar & Bill Hardy** (*International Rice Research Institute, Philippines*)

Rice Genetics IV contains 31 chapters from various contributors on topics dealing with rice genetic research, including molecular markers, genetic diversity, and evolution; structural and functional genomics; gene isolation and function; and transformation.

Readership: Rice scientists/researchers, crop science specialists, and agriculture professionals and students.

500pp	Apr 2008	
978-981-281-868-3(pbk)	US\$118	£78
978-981-281-429-6(ebook)	US\$153	



:: Bestseller

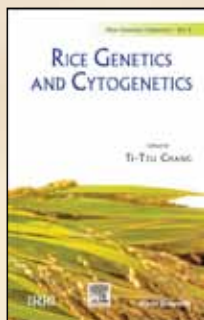
Rice Genetics Collection - Vol. 6

RICE GENETICS AND CYTOGENETICSedited by **Te-Tzu Chang** (*International Rice Research Institute, Philippines*)

This volume contains 27 chapters contributed by participants from the proceedings on topics dealing with rice genetic research, including taxonomy; gene symbolization and nomenclature; chromosome morphology in *Oryza* species; genetic and cytogenetic evidence for species relationships; the nature of intervarietal hybrid sterility in *Oryza sativa*; and inheritance studies, gene markers, and linkage groups.

Readership: Rice scientists/researchers, crop science specialists, and agriculture professionals and students.

296pp	Apr 2008	
978-981-281-869-0(pbk)	US\$82	£54
978-981-281-430-2(ebook)	US\$107	

**Other Related Titles**

ICP Series on Climate Change Impacts, Adaptation, and Mitigation - Vol. 1

HANDBOOK OF CLIMATE CHANGE AND AGROECOSYSTEMS**Impacts, Adaptation, and Mitigation**edited by **Daniel Hillel & Cynthia Rosenzweig** (*Columbia University, USA & Goddard Institute for Space Studies, USA*)

This handbook presents an exposition of current research on the impacts, adaptation, and mitigation of climate change in relation to agroecosystems. As the collective scientific and practical knowledge of the processes and responses involved continues to grow, future volumes in the series will address important aspects of the topic periodically over the coming years.

Readership: Students, academia and researchers in climate change and agricultural sciences.

452pp	Sep 2010	
978-1-84816-655-4	US\$168	£104
978-1-84816-656-1(ebook)	US\$218	

**:: Bestseller**

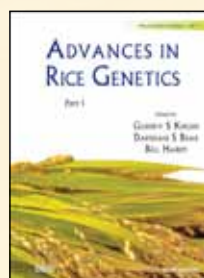
Rice Genetics Collection - Vol. 8

ADVANCES IN RICE GENETICS (In 2 Parts)edited by **Gurdev S Khush, Darshan S Brar & Bill Hardy** (*International Rice Research Institute, Philippines*)

Advances in Rice Genetics is a supplement to *Rice Genetics IV*. It contains 241 short chapters from various contributors on topics dealing with the genetics and breeding of agronomic traits; genetic diversity, evolution, and alien introgression; molecular markers, QTL mapping, and marker-assisted selection; genomics; gene isolation and function; tissue culture and transformation; and genetics of rice pathogens.

Readership: Rice researchers, crop science specialists, agriculture professionals and students.

Set	660pp	Apr 2008
978-981-281-870-6(pbk)	US\$140	£92
978-981-281-431-9(ebook)	US\$182	

**RISK, UNCERTAINTY AND THE AGRICULTURAL FIRM**by **Charles B Moss** (*University of Florida, USA*)

"Great timing! The book provides a comprehensive overview of risk and decision making in agriculture, when it is vitally needed. Thanks to the extras in the book, Moss has managed to keep even the complex risk topics accessible to graduate students."

Richard Gray
University of Saskatchewan

Readership: Applied researchers in the fields of agricultural and resource economics.

308pp	Apr 2010	
978-981-4287-62-3	US\$107	£74
978-981-4287-63-0(ebook)	US\$139	

**:: Bestseller**

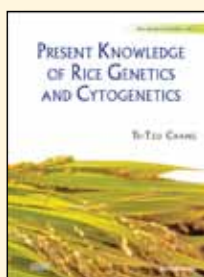
Rice Genetics Collection - Vol. 7

PRESENT KNOWLEDGE OF RICE GENETICS AND CYTOGENETICSby **Te-Tzu Chang** (*International Rice Research Institute, Philippines*)

It contains seven chapters on topics dealing with the *Oryza* species and species relationships; the origin and indigenous center of cultivated rices; cytological and cytogenetical studies, and their evaluation in relation to rice breeding; geographical groups of cultivated rices and intervarietal hybrid sterility in *Oryza sativa*; and areas requiring new or renewed research efforts.

Readership: Rice scientists/researchers, crop science specialists, and agriculture professionals and students.

100pp	Apr 2008	
978-981-281-871-3(pbk)	US\$42	£28
978-981-281-432-6(ebook)	US\$55	



IISc Centenary Lecture Series - Vol. 3

SCIENCE AND SUSTAINABLE FOOD SECURITY**Selected Papers of M S Swaminathan**by **M S Swaminathan** (*M S Swaminathan Research Foundation, India*)

"In this very rich book the father of the Asian green revolution explains his views, experiences and successes and failures. It is a very stimulating book for those who are engaged in the challenges of sustainable development and food security for humankind."

Rudy Rabbinge

University Professor in Wageningen University, Chairman Science Council CCIGAR

Readership: Agricultural scientists, scholars, public policy makers and professionals.

436pp	Dec 2009	
978-981-4282-10-9	US\$125	£83
978-981-4282-11-6(ebook)	US\$163	



