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# **Advances in Genetics, Genomics and Control of Rice Blast Disease**



Springer

# Advances In Genetics Genomics And Control Of Rice Blast Disease

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## **Advances In Genetics Genomics And Control Of Rice Blast Disease:**

Advances in Genetics, Genomics and Control of Rice Blast Disease Xiaofan Wang, Barbara Valent, 2009-03-01 Rice blast caused by the fungal pathogen *Magnaporthe grisea* is one of the most destructive rice diseases worldwide and destroys enough rice to feed more than 60 million people annually Due to high variability of the fungal population in the field frequent loss of resistance of newly released rice cultivars is a major restraint in sustainable rice production In the last few years significant progress has been made in understanding the defense mechanism of rice and pathogenicity of the fungus The rice blast system has become a model pathosystem for understanding the molecular basis of plant fungal interactions due to the availability of both genomes of rice and *M. grisea* and a large collection of genetic resources This book provides a complete review of the recent progress and achievements on genetic genomic and disease control of the disease Most of the chapters were presented at the 4th International Rice Blast Conference held on October 9-14 2007 in Changsha China This book is a valuable reference not only for plant pathologists and breeders working on rice blast but also for those working on other pathosystems in crop plants

Protecting Rice Grains in the Post-Genomic Era Yulin Jia, 2019-10-02 This book focuses on recent advances in genetic resources host pathogen interactions assay methods mechanisms of pathogenesis and disease resistance Environmentally benign crop protection methods for major rice diseases such as rice blast sheath blight bacterial blight and newly emerged rice diseases such as false smut and bacterial panicle blight disease are included The content also contains recent rice breeding methods for higher yield and improved disease resistance rice processing delicious rice recipes and food safety The book includes a comprehensive understanding of *Bacillus thuringiensis* toxin and its application for crop protection Holistically the book demonstrates successful applications of genomics physiology chemistry genetics pathology soil science and food technology to sustainably protect rice crops for global food safety

Advances in Breeding for Wheat Disease Resistance Peter Bulli, Christina Cowger, Marco Maccaferri, Feng Chen, Morten Lillemo, 2022-11-03

**Blast Disease of Cereal Crops** S. Chandra Nayaka, Rajashekara Hosahatti, Ganesan Prakash, C. Tara Satyavathi, Rajan Sharma, 2021-04-21 Blast is an important foliar disease that infects the majority of cereal crops like rice finger millet pearl millet foxtail millet and wheat and thus resulting in a huge economic impact The pathogen is responsible for causing epidemics in many crops and commonly shifts to new hosts *Magnaporthe* spp is the most prominent cause of blast disease on a broad host range of grasses including rice as well as other species of Poaceae family To date 137 members of Poaceae hosting this fungus have been described in Fungal Databases This book provides information on all blast diseases of different cereal crops The pathogen evolves quickly due to its high variability and thus can quickly adapt to new cultivars and cause an epidemic in a given crop Some of the topics covered here include historical perspectives pathogen evolution host range shift cross infectivity and pathogen isolation use of chemicals fungicides genetics and genomics and management of blast disease in different cereal crops with adoption of suitable methodologies In the past two decades there have been significant

developments in genomics and proteomics approaches and there has been substantial and rapid progress in the cloning and mapping of R genes for blast resistance as well as in comparative genomics analysis for resolving delineation of Magnaporthe species that infect both cereals and grass species Blast disease resistance follows a typical gene for gene hypothesis Identification of new Avr genes and effector molecules from Magnaporthe spp can be useful to understand the molecular mechanisms involved in the fast evolution of different strains of this fungal genus Advances in these areas may help to reduce the occurrence of blast disease by the identification of potential R genes for effective deployment Additionally this book highlights the importance of blast disease that infects different cereal hosts in the context of climate change and genomics approaches that may potentially help in understanding and applying new concepts and technologies that can make real impact in sustainable management of blast disease in different cereal crops

**Plant Breeding Reviews, Volume 38** Jules Janick, 2014-11-17 Plant Breeding Reviews presents state of the art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods Many of the crops widely grown today stem from a very narrow genetic base understanding and preserving crop genetic resources is vital to the security of food systems worldwide The emphasis of the series is on methodology a fundamental understanding of crop genetics and applications to major crops It is a serial title that appears in the form of one or two volumes per year

Biodiversity and Crop Improvement Shabir Hussain Wani, 2015-05-31 Plant breeding during its evolution has been utilizing biodiversity for producing better crops Nowadays everyone is concerned about saving the biodiversity Intensive agricultural practices climate change and Industrialization are having a straight impact on biodiversity Use of single new improved varieties of crops for large areas is a big threat for crop biodiversity Modern breeding approaches are also suggesting going back towards the land races and farmer s varieties for gene hunting for resistance to various biotic and abiotic stresses This book includes the description about biodiversity and crop improvement It also addresses the utilization of plant genetic resources and crop wild relatives for crop improvement through application of traditional plant breeding techniques as well as molecular and genomic approaches Through this multi authored book an effort has been made to assimilate the most topical results about biodiversity and crop improvement with contemporary plant breeding approaches Eleven chapters written by leading scientists involved in crop Improvement research worldwide provide sufficient coverage of the major factors impacting utilization of biodiversity for crop improvement

**Fungal Diseases of Rice and Their Management** Deepti Srivastava, Md. Shamim, Malik Mobeen Ahmad, R. S. Upadhyay, 2024-01-09 Rice is a widely consumed crop around the world that has tremendous importance and is cultivated almost everywhere except Antarctica However various biotic and abiotic stresses have a negative effect on rice cultivation seriously reducing its yield This volume examines the bacterial and fungal pathogens that cause rice diseases and explores how to manage these diseases It covers the economic and environmental impact of rice fungal diseases on global food security and proceeds to delve into diagnostic methods for rice fungal pathogen detection and discusses current

strategic and applied biotechnological methods for the effective management of rice fungal diseases      **Frontier Discoveries and Innovations in Interdisciplinary Microbiology** Pratyosh Shukla, 2015-11-16 This excellent book covers wide ranging topics in interdisciplinary microbiology addressing various research aspects and highlighting advanced discoveries and innovations It presents the fascinating topic of modern biotechnology including agricultural microbiology microalgae biotechnology bio energy bioinformatics and metagenomics environmental microbiology enzyme technology and marine biology It presents the most up to date areas of microbiology with an emphasis on shedding light on biotechnological advancements and integrating these interdisciplinary microbiology research topics into other biotechnology sub disciplines The book raises awareness of the industrial relevance of microbiology which is key component of this unique collection The topics include production of antioxidant glutathione enzyme engineering methods probiotic microbiology and features of microbial xylanases It also covers some other remarkable aspects of microbiology like potential health hazards in recreational water and fullerene nanocomposites which are vital for biotechnological interventions This book will be valuable resource for senior undergraduate and graduate students researchers and other interested professionals or groups working in the interdisciplinary areas of microbiology and biotechnology      **Plant Diseases and Food Security in the 21st Century** Peter Scott, Richard Strange, Lise Korsten, Maria Lodovica Gullino, 2021-05-22 Of the global population of more than 7 billion people some 800 million do not have enough to eat today By 2050 the population is expected to exceed 9 billion It has been estimated that some 15% of food production is lost to plant diseases in developing countries losses may be much higher Historically plant diseases have had catastrophic impact on food production For example potato blight caused the Irish famine in 1845 brown spot of rice caused the Great Bengal Famine of 1943 southern corn leaf blight caused a devastating epidemic on the US corn crop in 1970 Food security is threatened by an ongoing sequence of plant diseases some persistent for decades or centuries others more opportunistic Wheat blast and banana xanthomonas wilt are two contrasting examples of many that currently threaten food production Other emerging diseases will follow The proposed title aims to provide a synthesis of expert knowledge to address this central challenge to food security for the 21st century Chapters 5 and 11 are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)      *Mutagenesis: exploring novel genes and pathways* N.B. Tomlekova, M.I. Kozgar, M.R. Wani, 2023-08-07 Current successes in omics research have accelerated the production of high quality foods Various mutation methodologies have been developed to achieve this progress showing the importance of mutagenesis for food security Mutagenesis exploring novel genes and pathways describes the latest achievements in induced mutagenesis with a particular focus on the development of crops The book details experimental studies on functions of particular genes of interest the mechanisms involved in physiological processes and occurring chemical reactions Also the creation of new mutants and lines by use of genomic data banks is discussed The book will be of mutual interest to end users in modern breeding programs as well as to

scientific research     Plant-Microbe-Insect Interactions in Ecosystem Management and Agricultural Praxis Gero Benckiser, Krishnamurthy Kumar, Anton Hartmann, Bernd Honermeier, 2019-04-03 Nature's high biomass productivity is based on biological N<sub>2</sub> fixation BNF and biodiversity Benckiser 1997 Benckiser and Schnell 2007 Although N<sub>2</sub> makes up almost 80% of the atmosphere's volume living organisms need it in only small quantities presumably due to the paucity of natural ways of transforming this recalcitrant dinitrogen into reactive compounds N shortage is commonly the most important limiting factor in crop production The synthesis of ammonium from nitrogen and hydrogen the Haber Bosch H<sub>2</sub> B process invented more than 100 years ago became the holy grail of synthetic inorganic chemistry and removed the most ubiquitous limit on crop yields H<sub>2</sub> B opened the way for the development and adoption of high yielding cultivars for monoculturing by organic and precision farming With N over fertilization and pesticide application monoculturing farmers could approach Nature's high biomass productivity by causing side effects the scientific world is investigating This eBook presents the complexity the scientific world is facing in understanding the soil microbe plant animal cooperation the millions of taxonomically phylogenetically and metabolically diverse above below ground species involved in shaping the ever changing biogeochemical process patterns being of great significance for food production networks and yield stability Because ecosystem management and agricultural praxis are still largely conducted in isolation the aim of this Frontiers eBook is to gather and interconnect plant microbe insect interaction research of various disciplines studied with a broad spectrum of modern physical chemical biochemical and molecular biological agronomical techniques The goal of this Research Topic was to gain a better understanding of microbe plant insect compositions functioning interactions health fitness and productivity

**Seed-Borne Diseases of Agricultural Crops: Detection, Diagnosis & Management** Ravindra Kumar, Anuja Gupta, 2020-05-18 The global population is increasing rapidly and feeding the ever increasing population poses a serious challenge for agriculturalists around the world Seed is a basic and critical input in agriculture to ensure global food security Roughly 90 percent of the crops grown all over the world are propagated by seed However seed can also harbour and spread pathogens e.g. fungi bacteria nematodes viruses etc which cause devastating diseases Seed borne pathogens represent a major threat to crop establishment and yield Hence timely detection and diagnosis is a prerequisite for their effective management The book Seed Borne Diseases of Agricultural Crops Detection Diagnosis Management addresses key issues related to seed borne transmitted diseases in various agricultural crops Divided into 30 chapters it offers a comprehensive compilation of papers concerning the history of seed pathology importance of seed borne diseases seed borne diseases and quarantine seed health testing and certification detection and diagnosis of seed borne diseases and their phytopathogens host parasite interactions during development of seed borne diseases diversity of seed borne pathogens seed borne diseases in major agricultural crops non parasitic seed disorders mechanisms of seed transmission and seed infection storage fungi and mycotoxins impact of seed borne diseases on human and animal health and management options for seed borne diseases

We wish to thank all of the eminent researchers who contributed valuable chapters to our book which will be immensely useful for students researchers academics and all those involved in various agro industries

*New Frontiers in Stress Management for Durable Agriculture* Amitava Rakshit, Harikesh Bahadur Singh, Anand Kumar Singh, Uma Shankar Singh, Leonardo Fraceto, 2020-03-23 Using accessible farming practices to meet the growing demands on agriculture is likely to result in more intense competition for natural resources increased greenhouse gas emissions and further deforestation and land degradation which will in turn produce additional stress in the soil water plant animal continuum Stress refers to any unfavorable force or condition that inhibits customary functioning in plants Concurrent manifestations of different stresses biotic and abiotic are very frequent in the environment of plants which consequently reduces yield Better understanding stress not only changes our perspective on the current environment but can also bring a wealth of benefits like improving sustainable agriculture and human beings living standards Innovative systems are called for that protect and enhance the natural resource base while increasing productivity via holistic approaches such as agroecology agro forestry climate smart agriculture and conservation agriculture which also incorporate indigenous and traditional knowledge The book *New Frontiers in Stress Management for Durable Agriculture* details the current state of knowledge and highlights scientific advances concerning novel aspects of plant biology research on stress biotic and abiotic stress responses as well as emergent amelioration and reclamation technologies to restore normal functioning in agroecology

**Genome Editing Technologies for Crop Improvement** Kaijun Zhao, Rukmini Mishra, Raj Kumar Joshi, 2022-08-01 This book compiles the relevant information related to genome editing tools and their roles in crop improvement The book contains a brief introduction about various genome editing tools and their application in major crops It discusses the genome editing approaches and the strategies used for genome editing in different crops Some of the chapters cover the detailed methodology of sgRNA design vector construction and transformation in different crops followed by data analysis A few chapters focus on the applications of genome editing tools towards crop improvement This book will be of particular interest to plant biologists working in the field of genome editing and crop breeders It will provide valuable information and useful material for our readers experimental work

*Rice Production Worldwide* Bhagirath S. Chauhan, Khawar Jabran, Gulshan Mahajan, 2017-02-16 This book addresses aspects of rice production in rice growing areas of the world including origin history role in global food security cropping systems management practices production systems cultivars as well as fertilizer and pest management As one of the three most important grain crops that helps to fulfill food needs all across the globe rice plays a key role in the current and future food security of the world Currently no book covers all aspects of rice production in the rice growing areas of world This book fills that gap by highlighting the diverse production and management practices as well as the various rice genotypes in the salient rice producing areas in Asia Europe Africa the Americas and Australia Further this text highlights harvesting threshing processing yields and rice products and future research needs

Supplemented with illustrations and tables this text is essential for students taking courses in agronomy and production systems as well as for agricultural advisers county agents extension specialists and professionals throughout the industry

*Rice Research for Quality Improvement: Genomics and Genetic Engineering* Aryadeep Roychoudhury, 2020-07-29 This book focuses on the conventional breeding approach and on the latest high throughput genomics tools and genetic engineering biotechnological interventions used to improve rice quality It is the first book to exclusively focus on rice as a major food crop and the application of genomics and genetic engineering approaches to achieve enhanced rice quality in terms of tolerance to various abiotic stresses resistance to biotic stresses herbicide resistance nutritional value photosynthetic performance nitrogen use efficiency and grain yield The range of topics is quite broad and exhaustive making the book an essential reference guide for researchers and scientists around the globe who are working in the field of rice genomics and biotechnology In addition it provides a road map for rice quality improvement that plant breeders and agriculturists can actively consult to achieve better crop production

**Biotechnological Potential of Plant-Microbe Interactions in Environmental Decontamination** Ying Ma, Christopher Rensing, 2020-01-21 **New Horizons in Wheat and Barley Research** Prem Lal Kashyap, Vikas Gupta, Om Prakash Gupta, R. Sendhil, K. Gopalareddy, Poonam

Jasrotia, Gyanendra Pratap Singh, 2022-05-06 This book discusses the research progress on pathology entomology nematology and resource management of wheat and barley crops The volume summarizes the research progress and discusses the future perspectives based on current understanding of the existing issues and advancing cutting edge technologies in the field The book aims to help in deciding future research and development agenda by devising better strategies and techniques to cultivate these crops under clean and sustainable environment Through this book an international group of leading wheat and barley researchers unveil the emerging concepts and issues related to biotic stresses and resource management and offers latest glimpses of technological needs and resource optimization in wheat and barley production system Also key topics such as frontier mechanization technologies improved precision farming techniques pluralistic extension and policy interventions for enhancing the resource efficiency and livelihood security of the farmers are explored here This book is of interest to teachers researchers molecular breeders cereal biochemists and biotechnologists policymakers and professionals working in the area of wheat and barley research food and cereal industry Also the book serves as an additional reading material for undergraduate and graduate students of agriculture and food sciences National and international agricultural scientists policy makers will also find this book to be a useful read Volume 1 of New Horizons in Wheat and Barley Research covers global trends breeding and quality enhancement

*Technologies in Plant Biotechnology and Breeding of Field Crops* Kamaluddin, Usha Kiran, M. Z. Abdin, 2022-10-05 This edited book is a comprehensive compilation of principles conventional and molecular approaches used to develop improved varieties and hybrids of major crops in light of their origin evolution taxonomy production and productivity and need by human civilization The book covers breeding prospects of all important



food and commercial crops It highlights the importance of breeding tools and techniques in ensuring food security This book is of interest to teachers researchers agriculture scientists capacity builders and policymakers Also the book serves as additional reading material for undergraduate and graduate students of agriculture soil science and environmental sciences National and international agricultural scientists and policymakers will find this book useful Next-Generation Plant Breeding Approaches for Stress Resilience in Cereal Crops Mallana Gowdra Mallikarjuna,S. Chandra Nayaka,Tanushri Kaul,2022-09-15 This edited book highlights the gravity and efficacy of next generation breeding tools for the enhancement of stress resilience in cereals especially in the context of climate change pests diseases and abiotic stresses The content of the book helps in understanding the application of emerging genetic concepts and neoteric genomic approaches in cereal breeding It collates all the latest information about enhancing the stress resilience in cereal crops for overcoming food security issues Cereals have predominantly been used as a staple food since time immemorial and contribute more than 50% of the caloric requirement of the global population However in cereals the yield losses due to various stresses are very high considering the crop growth stage and stress sensitivity Therefore to feed and nourish the generations in the era of climate change it is imperative to develop stress resilient cereal cultivars This book explores newly developed next generation breeding tools viz genome wide association studies genomic prediction genome editing and accelerated generation advancement methodologies which revealed promising outcomes by enhancing the stress resilience in cereals with yield potential This book is useful for postgraduate students specializing in plant breeding plant stress physiology plant genomics agriculture and agronomy It is of immense value to scientific community involved in teaching research and extension activities related to cereal cultivation

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