



## Review

# Recent Advances in Mechanisms Underlying Defense Responses of Horticultural Crops to *Botrytis cinerea*

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**Abstract:** Horticultural crops are a crucial component of agriculture worldwide and have great economic value. The notorious plant fungal pathogen *Botrytis cinerea* can cause gray mold disease in over 200 horticultural crops, leading to severe economic losses. Investigating the mechanisms underlying plant defense responses to pathogens is crucial for developing new strategies for effectively controlling plant diseases, and much progress has occurred in the mechanisms underlying defense responses of horticultural crops to *B. cinerea* mainly due to the completion of genome sequencing and the establishment of efficient tools for functional genomics. In this review, recent progress in mechanisms underlying defense responses and natural products that can enhance the resistance of horticultural crops to *B. cinerea* are summarized, and future research directions are also discussed.

**Keywords:** *Botrytis cinerea*; plant defense responses; pattern-triggered immunity; hormone; disease control

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## 1. Introduction

Horticultural crops include fruits, vegetables, and ornamental plants, containing enormous nutritional and ornamental value. Production and consumption of horticultural products are developing rapidly, thereby attracting much attention [1]. However, horticultural crops are seriously threatened by various pathogens in the field, transport, storage, and even market [2]. *B. cinerea*, the second most important fungal plant pathogen, can cause gray mold disease in over 200 horticultural crops, such as tomato, strawberry, grape, and rose, resulting in severe economic losses [3,4]. Health or environmental risks derived from synthetic fungicides and fungicide resistance are increasingly concerning [5,6]. Thus, it is imperative to develop new strategies for effectively controlling gray mold disease.

During pathogen–plant interactions, plants have evolved unique disease resistance mechanisms and strategies to deal with pathogens to reduce the damage [7]. With the development of genome sequencing [8], and the establishment of efficient tools for functional genomics [9], there have been numerous important advances in our understanding of the molecular biology of members in plant defense response to pathogens. Pattern-triggered immunity (PTI) is a key component of plant immune responses to *B. cinerea* [10], and components in plant PTI signaling, transcription factors, and proteins in hormone synthesis and signaling were proven to be important regulators against *B. cinerea* infection [11]. This article reviews the research progress on defense response mechanisms of horticultural crops and natural products that enhance resistance to *B. cinerea* in recent years, and prospects for future research directions.

# Recent Advances In Botrytis Research

**J.W. Kronstad**



## **Recent Advances In Botrytis Research:**

**Recent Advances in the Diagnosis and Management of Plant Diseases** L.P. Awasthi, 2015-11-19 This book is a compilation of the most challenging and significant chapters on the diagnosis and management of important bacterial fungal viral viroid phytoplasma non parasitic diseases and various physiological disorders in various crops The chapters have been contributed by eminent plant pathologists having wide experience of teaching and research on various crops with different types of diseases which cause great economic losses The book would be very useful for students teachers and researchers of plant pathology This book highlights recent advances made in the development of new types of resistance in host plants and alternative strategies for managing plant diseases to improve food quality and reduce the negative public health impact associated with plant diseases Having entered into 21st century advancements in the Diagnosis of Plant Pathogens and Plant Disease Management need to be closely examined and adequately applied so that newer challenges facing plant pathology could be adequately addressed in attaining food security for the growing population Substantial advancements have been made in terms of expanding knowledge base of the biology of plant microbial interactions disease management strategies and application and practice of Plant Pathology Application of molecular biology in Plant Pathology has greatly improved our ability to detect plant pathogens and in increasing our understanding their ecology and epidemiology Similarly new technologies and resources have been evolved for the development of sustainable crop protection systems by different control strategies against various pests and pathogens that are important components of the integrated pest management programme Natural products and chemical compounds discovered as a result of basic research and molecular mechanisms of pathogenesis have led to the development of biorational pesticides Biological control has been found to be the most significant approach to plant health management during the twentieth century and promises using modern biotechnology to be even more significant in the twenty first century Advances in Plant Physiology (Vol. 7) A. Hemantaranjan, 2005-07-01 The publication of Volume 7 of the International Treatise Series on Advances in Plant Physiology has been feasible exclusively and unquestionably due to commendable contributions from World Scientists of distinction in explicit fields within eight years the treatise series has been instituted in the spirits and compassion of illustrious readers all through the world The proficient International and National Co ordinators have all along unified their views for the expediency of readers assisting them to speed up important research work in the field of Plant and Crop Physiology Biochemistry Plant Molecular Biology in spite of handiness of quick accessibility of vast literature from internet this treatise series in the field of life sciences has been realized over and above to be like a true guide friend and philosopher everlastingly enlightening the most hidden perceptible nerves of an individual worker which is beyond the competence of mere web services The volume 8 is absolutely another one of its kinds for incorporation of most timely and important worthy reviews of diverse objectives contributed by forty four well informed admirable and documented scientists stalwarts of which twenty three participated

from abroad The original writing coming in bounteous journals of international repute covering new technologies and tools in plant science research have been pulled together in affirmative prolific and supportive manner by specialists all over the globe In this volume efforts have been made to fetch together twenty one indispensable review articles duly evaluated by the respective Consulting Editors of international stature from India U K U S A Argentina Australia France Germany Japan Spain Portugal Israel and Morocco and rationally distributed in eight sections Indeed the treatise is wealth for interdisciplinary exchange of information Apart from fulfilling need of this kind of exclusive edition in different volumes for research teams in Molecular Plant Physiology and Biochemistry in traditional and agricultural universities institutes and research laboratories throughout the world it would be extremely a constructive book and a voluminous reference material for acquiring advanced knowledge by post graduate and Ph D scholars in response to the innovative courses in Plant Physiology Plant Biochemistry Plant Molecular Biology Plant Biotechnology Environmental Sciences Plant Pathology Microbiology Soil Science Agricultural Chemistry Agronomy Horticulture and Botany

Recent Advances in Botrytis Research K. Verhoeff,1992 *Diseases of Field Crops: Diagnostics and Management* Vaibhav Kumar Singh,Jameel Akhtar,Krishna Pratap Singh,2024-11-18 This edited book is a compilation of the chapters on the recent advances made in the field of disease management in various field crops It covers host resistance regulatory mechanism as well as non chemical methods and computer based applications in disease management Molecular marker assisted selection proteomic approaches CRISPR Cas mediated technology to improve food quality and minimize negative public health impact associated with crop diseases is also discussed Plant diseases continue to be major challenge to global crop production especially field crops inflicting not only crop yield losses to farmers but also decline quality as well as nutritional value leading threat to global food security According to FAO statistics there is a need of 70% steady increase in agricultural production to fulfil the food requirements of 9 1 billion populations by 2050 and annual global crop losses due to pests and diseases have been estimated to be about 30% Therefore the book aims at bringing out a comprehensive information on field crop diseases plant disease detection and diagnosis monitoring forecasting forewarning and management The book is very useful for students teachers researchers planners administrators and also the end users at national and international level

Fungal Pathology J.W. Kronstad,2000-09-30 The pace of research on fungi has been accelerating over the past decade As a result molecular biochemical and cell biological studies have opened up new areas of investigation for many of the most important fungal pathogens of crop plants Similarly these approaches have provided new information on fungal pathogens of animals and insects and on fungal endophytes The collection of chapters in this book provides an excellent update on recent progress for many of the important plant pathogenic fungi that either cause significant economic problems or that serve as useful experimental organisms for gaining general insights The inclusion of chapters on other fungi will allow readers to make comparisons and draw parallels between a variety of pathogens In this regard this book provides a unique perspective that will be valuable to a wide range of readers from senior undergraduates

to senior investigators      **Aerial Plant Surface Microbiology** Cindy E. Morris, C. Nguyen-The, P.C. Nicot, 2007-09-04  
Informative well constructed and readable The contributors are leaders in their fields and what they have to say is  
worthwhile SGM Quarterly August 1998      **Australian Journal of Agricultural Research** ,2006      **Agricultural  
Applications** F. Kempken, 2013-03-09 In this volume the relevance of fungi for agriculture is discussed in four sections The  
first one Food and Fodder Production concerns the application and potential of mushrooms straw enrichment and food or  
crop spoilage The next section Mycotoxins and Detoxification deals with the biosynthesis of mycotoxins and the use of fungi  
in organopollutant degradation A large section entitled Disease Control Diagnostic and Management covers various aspects  
of biological control fungi insects and weeds diagnostics with emphasis on the example of Magnaporthe grisea and disease  
management with focus on the important fungal pathogens Phoma Fusarium rusts and powdery mildew The last section  
Update on Host Parasite Interactions discusses signal transduction avirulence determinants phytotoxins cell wall degradation  
and the coevolution of pathogenic fungi and grass hosts      *Mitteilungen Klosterneuburg* ,2013      **New Zealand Journal  
of Crop and Horticultural Science** ,1999      **Chemical Abstracts Service Source Index** American Chemical Society.  
Chemical Abstracts Service, 1907 A key source to journal and conference abbreviations in the sciences Although it focuses on  
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Ashok Chandra Shukla, 1999 Contributed articles presented at a National Conference on Environmental Biopollution 1997  
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Ainsworth, Guy Richard Bisby, P. M. Kirk, 2001 This ninth edition features a refined classification of fungal phyla reflecting the  
latest molecular evidence a full integration of anamorphic genera in the classification and a revised synopsis of the proposed  
classification      **Sixth International Symposium on Rubus and Ribes** Kazimierz Smolarz, Krzysztof Zmarlicki, 1993

## **Recent Advances In Botrytis Research** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has are more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Recent Advances In Botrytis Research**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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