

# Encyclopedia Of Plant Diseases In Agriculture And Horticulture

Encyclopedia of Infectious Diseases  
 Desk Encyclopedia of Plant and Fungal Virology  
 Recent Advances in the Diagnosis and Management of Plant Diseases  
 Encyclopedia of Food Microbiology  
 Pests and Diseases  
 An Illustrated Encyclopedia  
 Wyman's Gardening Encyclopedia  
 Plant Disease: An Advanced Treatise  
 The CABI Encyclopedia of Forest Trees  
 Biotechnology and Plant Disease Management  
 Encyclopedia of Insects  
 Plant Pathology at a Glance (Encyclopedia of Plant Pathology)  
 Dirr's Hardy Trees and Shrubs  
 Encyclopedia of Epidemiology  
 Encyclopedia of Plant Diseases in Agriculture & Horticulture  
 Encyclopedia of Plant and Crop Science (Print)  
 Encyclopedia of Plants and Flowers  
 How Plants Suffer from Disease  
 Encyclopedia of Virology  
 Encyclopedia of Plants & Flowers  
 Encyclopedia of Plant and Crop Science (Print)  
 Phytopathogenic Bacteria and Plant Diseases  
 Dirr's Encyclopedia of Trees and Shrubs  
 The Fertilizer Encyclopedia  
 Plant Diseases and Vectors: Ecology and Epidemiology  
 Encyclopedia of Global Health  
 Encyclopedia of Plant Disease  
 Under the aegis of an International Plant Disease Epidemiology Workshop held at Landernau, France, 10-15th April, 2005  
 Encyclopedia of Virology  
 Natural Disease Control  
 Plant Disease Epidemiology: Facing Challenges of the 21st Century  
 Concise Encyclopedia of Plant Pathology  
 Desk Encyclopedia of Microbiology  
 Encyclopedia of Plant Diseases: Management of plant disease  
 Volume 2: Epidemiology and Management  
 Plant Sciences Reviews 2011  
 Cytology, Histology and Histochemistry of Fruit Tree Diseases  
 Plant Virus and Viroid Diseases in the Tropics  
 Encyclopedia of Food Security and Sustainability

*Encyclopedia Of Plant Diseases In Agriculture And Horticulture*

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## CARLA RILEY

*Encyclopedia of Infectious Diseases* Springer Science & Business Media

The field of Phytobacteriology is rapidly advancing and changing, because of recent advances in genomics and molecular plant pathology, but also due to the global spread of bacterial plant diseases and the emergence of new bacterial diseases. So, there is a need to integrate understanding of bacterial taxonomy, genomics, and basic plant pathology that reflects state-of-the-art knowledge about plant-disease mechanisms. This book describes seventy specific bacterial plant diseases and presents up-to-date classification of plant pathogenic bacteria. It would be of great help for scientists and researchers in conducting research on ongoing projects or formulation of new research projects. The book will also serve as a text book for advanced undergraduate and postgraduate students of disciplines of Phytobacteriology and Plant Pathology. Contains latest and updated information of plant pathogenic bacteria till December 2018 Describes seventy specific bacterial diseases Presents classification of the bacteria and associated nomenclature based on Bergey's Manual Systematic Bacteriology and International Journal of Systematic and Evolutionary Microbiology Discusses practical and thoroughly tested disease management strategies that would help in controlling enormous losses caused by these plant diseases Reviews role of Type I-VI secretion systems and peptide- or protein-containing toxins produced by bacterial plant pathogens Briefs about plants and plant products that act as carriers of human enteric bacterial pathogens, like emphasizing role of seed sprouts as a common vehicle in causing food-borne illness Dr B. S. Thind was ex-Professor-cum-Head, Department of Plant Pathology, Punjab Agricultural University Ludhiana, India. He has 34 years of experience in teaching, research, and transfer of technology. He has conducted research investigations on bacterial blight of rice, bacterial stalk rot of maize, bacterial blight of cowpea, bacterial leaf spot of green gram, bacterial leaf spot of chillies and bacterial soft rot of potatoes. He also acted as Principal Investigator of two ICAR-funded research schemes entitled, "Detection and control of phytopathogenic bacteria from cowpea and mungbean seeds from 1981 to 1986 and "Perpetuation, variability, and control of *Xanthomonas oryzae* pv. *oryzae*, the causal agent of bacterial blight of rice" from 1989 to 1993, and also of a DST funded research scheme "Biological control of bacterial blight, sheath blight, sheath rot, and brown leaf spot of rice" from 1999 to 2002. He also authored a manual entitled, "Plant Bacteriology" and a text book entitled, "Phytopathogenic Prokaryotes and Plant Diseases" published by Scientific Publishers (India). He is Life member of Indian Phytopathological Society, Indian Society of Plant Pathologists, Indian Society of Mycology and Plant Pathology, and Indian Science Congress Association.

[Desk Encyclopedia of Plant and Fungal Virology](#) CABI

Plant resistance to pathogens is one of the most important strategies of disease control. Knowledge of resistance mechanisms, and of how to exploit them, has made a significant contribution to agricultural productivity. However, the continuous evolution of new variants of pathogen, and additional control problems posed by new crops and agricultural methods, creates a need for a corresponding increase in our understanding of resistance and ability to utilize it. The study of resistance mechanisms also has attractions from a purely academic point of view. First there is the breadth of the problem, which can be approached at the genetical, molecular, cellular, whole plant or population level. Often there is the possibility of productive exchange of ideas between different disciplines. Then there is the fact that despite recent advances, many of the mechanisms involved have still to be fully elucidated. Finally, and compared with workers in other areas of biology, the student of resistance is twice blessed in having as his subject the interaction of two or more organisms, with the intriguing problems of recognition, specificity and co-evolution which this raises. [Recent Advances in the Diagnosis and Management of Plant Diseases](#) Springer Science & Business

## Media

Plant disease management remains an important component of plant pathology and is more complex today than ever before including new innovation in diagnostic kits, the discovery of new modes of action of chemicals with low environmental impact, biological control agents with reliable and persistent activity, as well as the development of new plant varieties with durable disease resistance. This book is a collection of invited lectures given at the 9th International Congress of Plant Pathology (ICPP 2008), held in Torino, August 24-29, 2008 and is part of a series of volumes on Plant Pathology in the 21st Century. It focuses on new developments of disease management and provides an updated overview of the state of the art given by world experts in the different fields of disease management. The different chapters deal with basic aspects of disease management, mechanisms of action of biological control agents, innovation in fungicide application, exploitation of natural compounds and resistance strategies. Moreover, the management of soil-borne diseases and disease management in organic farming are covered.

[Encyclopedia of Food Microbiology](#) CABI

& Quot;Plant Sciences Reviews 2011" provides scientists and students in the field with timely analysis on key topics in current research. Originally published online in CAB Reviews, this volume makes available in printed form the reviews in plant sciences published during 2011.

[Pests and Diseases](#) John Wiley & Sons

[Encyclopedia of Agriculture and Food Systems](#), Second Edition addresses important issues by examining topics of global agriculture and food systems that are key to understanding the challenges we face. Questions it addresses include: Will we be able to produce enough food to meet the increasing dietary needs and wants of the additional two billion people expected to inhabit our planet by 2050? Will we be able to meet the need for so much more food while simultaneously reducing adverse environmental effects of today's agriculture practices? Will we be able to produce the additional food using less land and water than we use now? These are among the most important challenges that face our planet in the coming decades. The broad themes of food systems and people, agriculture and the environment, the science of agriculture, agricultural products, and agricultural production systems are covered in more than 200 separate chapters of this work. The book provides information that serves as the foundation for discussion of the food and environment challenges of the world. An international group of highly respected authors addresses these issues from a global perspective and provides the background, references, and linkages for further exploration of each of topics of this comprehensive work. Addresses important challenges of sustainability and efficiency from a global perspective. Takes a detailed look at the important issues affecting the agricultural and food industries today. Full colour throughout.

[An Illustrated Encyclopedia](#) Elsevier

This bestselling encyclopedia, illustrated with brilliant photographs, describes the best woody plants adapted to cooler climates, showing both habit and details of more than 500 species, and including some 700 additional cultivars and varieties. Brief cultural information is supplied for each plant, as well as Dirr's perceptive comments and opinions.

[Wyman's Gardening Encyclopedia](#) Academic Press

Home gardeners can diagnose plant diseases correctly and treat them effectively using the least toxic methods available with the information provided in this comprehensive book. The ecologically minded gardener will understand the complex nature of plant pathogens and learn to identify symptoms of diseases and disorders. Information about the most common and devastating plant diseases that afflict trees, turf grasses, vegetables, and ornamental plants is given. Although a preventive approach is stressed, should diseases get a foothold, this book contains a thorough discussion of the range of the least toxic disease controls. Many of the remedies can be mixed from readily available ingredients and, when used responsibly, will protect the gardener and the environment.

**Plant Disease: An Advanced Treatise** Timber Press

V.1. A-C. v.2. D-L. v.3. M-R. v.4. S-Z, Index.

**The CABI Encyclopedia of Forest Trees** Springer Science & Business Media

The Encyclopedia of Epidemiology presents state-of-the-art information from the field of epidemiology in a less technical and accessible style and format. With more than 600 entries, no single reference provides as comprehensive a resource in as focused and appropriate manner. The entries cover every major facet of epidemiology, from risk ratios to case-control studies to mediating and moderating variables, and much more. Relevant topics from related fields such as biostatistics and health economics are also included.

**Biotechnology and Plant Disease Management** CRC Press

Provides advice on garden planning, cultivation, gardening techniques, and garden maintenance

**Encyclopedia of Insects** Timber Press (OR)

Awarded Best Reference by the New York Public Library (2004), Outstanding Academic Title by CHOICE (2003), and AAP/PSP 2003 Best Single Volume Reference/Sciences by Association of American Publishers' Professional Scholarly Publishing Division, the first edition of Encyclopedia of Insects was acclaimed as the most comprehensive work devoted to insects. Covering all aspects of insect anatomy, physiology, evolution, behavior, reproduction, ecology, and disease, as well as issues of exploitation, conservation, and management, this book sets the standard in entomology. The second edition of this reference will continue the tradition by providing the most comprehensive, useful, and up-to-date resource for professionals. Expanded sections in forensic entomology, biotechnology and Drosophila, reflect the full update of over 300 topics. Articles contributed by over 260 high profile and internationally recognized entomologists provide definitive facts regarding all insects from ants, beetles, and butterflies to yellow jackets, zoraptera, and zygentoma. \* 66% NEW and revised content by over 200 international experts \* New chapters on Bedbugs, Ekbom Syndrome, Human History, Genomics, Vinegaroons \* Expanded sections on insect-human interactions, genomics, biotechnology, and ecology \* Each of the 273 articles updated to reflect the advances which have taken place in entomology research since the previous edition \* Features 1,000 full-color photographs, figures and tables \* A full glossary, 1,700 cross-references, 3,000 bibliographic entries, and online access save research time \* Updated with online access

**Plant Pathology at a Glance (Encyclopedia of Plant Pathology)** Routledge

As the global climate changes, plant disease epidemiology faces important questions: Will climate change render plant diseases more harmful to man-made ecosystems, or less? Can sustainable systems be developed in time to spare and enhance shrinking resources? How will changes in host plant diversity affect genetic disease resistance? This book provides an overview of current research in plant disease epidemiology from researchers at the cutting edge of this important discipline.

**Dirr's Hardy Trees and Shrubs** Academic Press

Encyclopedia of Virology, Fourth Edition, builds on the solid foundation laid by the previous editions, expanding its reach with new and timely topics. In five volumes, the work provides comprehensive coverage of the whole virosphere, making this a unique resource. Content explores viruses present in the environment and the pathogenic viruses of humans, animals, plants and microorganisms. Key areas and concepts concerning virus classification, structure, epidemiology, pathogenesis, diagnosis, treatment and prevention are discussed, guiding the reader through chapters that are presented at an accessible level, and include further readings for those needing more specific information. More than ever now, with the Covid19 pandemic, we are seeing the huge impact viruses have on our life and society. This encyclopedia is a must-have resource for scientists and practitioners, and a great source of information for the wider public. Offers students and researchers a one-stop shop for information on virology not easily available elsewhere Fills a critical gap of information in a field that has seen significant progress in recent years Authored and edited by recognized experts in the field, with a range of different expertise, thus ensuring a high-quality standard

Elsevier

Fertilizers are key for meeting the world's demands for food, fiber, and fuel. Featuring nearly 4,500 terms of interest to all scientists and researchers dealing with fertilizers, The Fertilizer Encyclopedia compiles a wealth of information on the chemical composition of fertilizers, and includes information on everything from manufacturing and applications to economical and environmental considerations. It covers behavior in soil, chemical and physical characteristics, physiological role in plant growth and soil fertility, and more. This is the definitive, up-to-date reference on fertilizers. This book is not available for purchase from Wiley in the country of India. Customers in India should visit Vasudha Research & Publications Pvt. Ltd. at [www.fertilizer-encyclopedia.com](http://www.fertilizer-encyclopedia.com)

**Encyclopedia of Epidemiology** Elsevier

3500 photographs. Over 380 genera. More than 3700 species and cultivars. Dirr's Encyclopedia of Trees and Shrubs is the most comprehensive visual reference to more than 3700 species and cultivars. From majestic evergreens to delicate vines and flowering shrubs, Dirr features thousands of plants and all the essential details for identification, planting, and care. Color photographs show each tree's habit in winter, distinctive bark patterns, fall color, and more. Dirr's Encyclopedia of Trees and Shrubs is a critical addition to any garden library.

**Encyclopedia of Plant Diseases in Agriculture & Horticulture** Springer Science & Business Media

Encyclopedia of Plant and Crop Science is the first-ever single-source reference work to inclusively

cover classic and modern studies in plant biology in conjunction with research, applications, and innovations in crop science and agriculture. From the fundamentals of plant growth and reproduction to developments in agronomy and agricultural science, the encyclopedia's authoritative content nurtures communication between these academically distinct yet intrinsically related fields-offering a spread of clear, descriptive, and concise entries to optimally serve scientists, agriculturalists, policy makers, students, and the general public. ALSO AVAILABLE ONLINE This Taylor & Francis encyclopedia is also available through online subscription, offering a variety of extra benefits for both researchers, students, and librarians, including: Citation tracking and alerts Active reference linking Saved searches and marked lists HTML and PDF format options For more information, visit Taylor and Francis Online or contact us to inquire about subscription options and print/online combination packages. US: (Tel) 1.888.318.2367 / (E-mail) [e-reference@taylorandfrancis.com](mailto:e-reference@taylorandfrancis.com) International: (Tel) +44 (0) 20 7017 6062 / (E-mail) [online.sales@tandf.co.uk](mailto:online.sales@tandf.co.uk)

**Encyclopedia of Plant and Crop Science (Print)** CRC Press

Plant Diseases An Advanced Treatise, Volume III: How Plants Suffer from Disease deals with the mechanism on how individual plants suffer from disease. Organized into 19 chapters, this volume discusses plant growth, the conceptual theory of disease development in plants, and the occurrence of different kinds of impairment in diseased plant system. The opening chapters outline the array of physiological functions that are essential in the growth and development of healthy plants. This text also describes the effect of disease on the capture, transfer, and utilization of energy by plants. The subsequent chapters discuss specific types of dysfunction in plant system, including food flow, water system, mineral nutrition, and growth alteration. Other chapters deal with other plant diseases, such as crown gall, teratoma, dysfunction and shortfalls of symbiont responses, disrupted reproduction, and tissue disintegration. This volume also examines various physical factors of the environment that impose mechanical or other physical stresses on plants. It also discusses the engineering mechanics of growing plants and the effect of various pathogens and microorganisms on plant strength and plant organ structural integrity. Other chapters deal with the effect of disease on cell membrane and permeability and on intermediary plant metabolism. The concluding chapters cover the genetic aspects of diseased plants and the diseases that induce senescence and diseases that senescence induced. This volume is an invaluable source for plant pathologists and researchers, mycologists, virologists, and graduate students.

**Encyclopedia of Plants and Flowers** Brooklyn Botanic Garden

Encyclopedia of Plant Diseases: Management of plant disease Encyclopedia of Plant Diseases in Agriculture & Horticulture Encyclopedia of Plant Disease Plant Pathology at a Glance (Encyclopedia of Plant Pathology) Scientific Publishers

**How Plants Suffer from Disease** Academic Press

Plant-Microbe Interactions, Volume 1 Many plant-microbe interactions have agronomic importance because of either beneficial (e.g., nitrogen fixation or biocontrol) or detrimental (e.g., pathogen esis) effects. Although these systems have been the subjects of scientific research for many years, recently there has been a tremendous increase in our knowledge of them. The increases in this research have followed a similar general increase in plant science research. Classical plant science research disciplines (e.g., agronomy, breeding, plant physiology, systematics, etc.) have been affected by an increased focus on molecular biology. These new technologies, as well as advances in other areas, have the effect of blurring the traditional borders between research disciplines. Another factor influencing the development of this research is the increased attention given to environmental issues. These concerns have been brought about by debate over the release of genetically modified organisms and the general concern over environmental quality. Thus, research areas focused on plant-microbe interactions are presently in a period of great excitement and growth that shows every sign of continuing far into the future. As in most research areas, the rate of advance and breadth of disciplines involved in the study of plant-microbe interactions make it impossible for the average researcher or student to stay abreast of the primary scientific literature.

**Encyclopedia of Virology** John Wiley & Sons

The CABI Encyclopedia of Forest Trees provides an extensive overview of 300 of the world's most important forest trees. Tropical, subtropical, temperate and boreal trees of major economic importance are included, covering tree species used in agroforestry practices around the world. Many of the species covered are considered to be multipurpose trees with uses extending beyond timber alone; the land uses such as watershed protection or provision of windbreaks, and non-wood uses such as the production of medicines, resins, food and forage, are also listed. Comprehensive information is presented on each tree's importance, with a summary of the main characteristics of the species, its potential for agroforestry use and any disadvantages it possesses. The tree's botanical features such as habit, stem form, foliage, inflorescence, flower and fruit characters and phenology are covered in detail with over 70 color plate pictures to aid identification. Also included are specific sections devoted to pests and diseases, distribution and silvicultural characteristics and practices, including seed sowing, nursery care, planting, thinning, and harvesting. In addition to the wealth of information detailed, based on datasheets from CABI's Forestry Compendium, selected references for further reading are provided for each entry, making this book an essential reference work for forestry students, researchers and practitioners.

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