

Read Book Fungicide Resistance In Crop Pathogens How Can It Be Managed Pdf For Free

Fungicide Resistance in Crop Protection Disease Resistance in Plants Insect Resistance in Crop Plants Disease Resistance in Crop Plants Return to Resistance Durable Resistance in Crops Plant Resistance to Herbivores and Pathogens Herbicide Resistance in Plants Fungicide Resistance in Plant Pathogens Plant Pathogen Resistance Biotechnology Durable Resistance in Crops Disease Resistance in Wheat Induced Resistance for Plant Defence Plant Resistance to Viruses Host Plant Resistance to Insects Principles of Host-plant Resistance to Insect Pests Plant Resistance to Arthropods Plant Resistance to Insects Breeding Crops with Resistance to Diseases and Pests Glyphosate Resistance in Crops and Weeds Fungicide resistance in crop pathogens: how can it be managed? Drought Resistance in Crops with Emphasis on Rice Herbicide Resistance in Weeds and Crops Mechanisms of Resistance to Plant Diseases Global Pesticide Resistance in Arthropods Pest Resistance to Pesticides and Crop Loss Assessment-2 Genetics and Breeding for Crop Quality and Resistance Pest Resistance to Pesticides and Crop Loss Assessment Drought Injury and Resistance in Crops Breeding for Durable Disease and Pest Resistance Plant Breeding for Pest and Disease Resistance Pesticide Resistance Appropriate Oversight for Plants with Inherited Traits for Resistance to Pests Breeding for Resistance to Diseases and Insect Pests Induced Resistance for Plant Defense Breeding for Resistance to Diseases and Insect Pests Molecular Biology in Plant Pathogenesis and Disease Management: Natural and Engineered Resistance to Plant Viruses Induced Mutations for Disease Resistance in Crop Plants Global Plant Genetic Resources for Insect-Resistant Crops

Natural and Engineered Resistance to Plant Viruses Feb 20 2020 Viral hemorrhagic fevers (VHFs) are a group of illnesses that are caused by several distinct families of viruses. While some types of hemorrhagic fever viruses can cause relatively mild illnesses, many of these viruses cause severe life-threatening disease. Some examples include: Lassa fever, Marburg virus, Ebola virus, Bolivian hemorrhagic fever, Korean hemorrhagic fever, Crimean-Congo hemorrhagic fever and Dengue hemorrhagic fever. No current treatment can cure viral hemorrhagic fevers, and immunizations exist for only two (yellow fever and Argentine hemorrhagic fever) of the many VHFs. Researchers are working to develop other vaccines, but in the meantime, the best approach is prevention. This volume will provide a review of what is known to date on these virus families as well as highlighting recent advances and future needs. Key features: * Provides comprehensive overview of what is known to date, recent advances and future needs * Examines transmission and risk factors * Highlights what has been done to help in outbreak control * Discusses the need for vaccines and antivirals

Fungicide Resistance in Plant Pathogens Aug 20 2022 This volume offers a comprehensive coverage of the general principles and recent advances in fungicide resistance. It describes the development, mechanisms, monitoring, and management of resistance and covers the most important group of fungicides that have caused resistance on various crops. An historical review of fungicide resistance over the past 40 years sets the scene for up-to-date basic information on mode of action, as well as the genetics, mechanisms, and evolution of resistance. Monitoring for resistance, including the latest developments in molecular diagnostics, moves readers into the practical aspects of resistance management, which is dealt with through a series of case studies outlining fungicide-use strategies on several key crops. The chapters reflect the experience of authors internationally recognised for their significant contributions to fungicide resistance research. The majority of crop diseases are caused by fungal pathogens, and disease control relies heavily on chemically synthesized fungicides. However, modern fungicides often encounter the problem of resistance development in target pathogens. Thus pathogen resistance to fungicides is an important factor that causes loss of yield and quality of crops. It often threatens biosecurity through the decrease of fungicide efficacy in the fields. To manage fungicide resistance successfully will require the promotion of integrated disease management, involving not just chemical fungicides, but also host plant resistance, agronomic factors, and reliable biological control agents where these are available. Well referenced throughout, the book offers a comprehensive account of resistance, which will be useful as a source of material for lecturers and for both industrial and academic scientists involved in fungicide resistance research. It is also a valuable sourcebook for students.

Breeding for Resistance to Diseases and Insect Pests Jun 25 2020 Aandacht voor de principes van ziekte- en plaagresistentie en resistentieveredeling, verduidelijkt aan de hand van vele voorbeelden van gewassen en parasieten

Mechanisms of Resistance to Plant Diseases May 05 2021

Plant Resistance to Herbivores and Pathogens Oct 22 2022 Part 1. Analysis and Inheritance of Resistance Variation Chapters by George G. Kennedy and James D. Barbour; John A. Barrett; Ellen L. Simms and Mark A. Rausher; and Mary R. Berenbaum and Arthur R. Zangerl Part 2. Evolutionary Responses to Plant Resistance by Herbivores and Pathogens Chapters by Lawrence Wilhoit; Diana Pilson; Arthur E. Weis; and James Groth and Barbara Christ Part 3. Population and Community Responses to Plant Resistance Variation Chapters by Richard Karban; A. Joseph Pollard; Robert S. Fritz; and J. Daniel Hare Part 4. Evolution of Plant Resistance Robert J. Marquis; Helen M. Alexander; Matthew A. Parker; Arthur R. Zangerl and Fahkri A. Bazzaz; Ellen L. Simms; and Janis Antonovics References Copyright © Libri GmbH. All rights reserved.

Fungicide Resistance in Crop Protection Apr 28 2023 Pathogen resistance to fungicides has become a challenging problem in the managing of crop diseases and has threatened the performance of some highly potent commercial fungicides. Worldwide, resistance to more than one hundred different active ingredients has been reported. This book compiles information on fungicide resistance over the past three decades on the status, development, and processes involved in the build-up of resistance in pathogens to different groups of fungicides, while also suggesting various measures for managing this problem.

Disease Resistance in Wheat May 17 2022 Disease resistance is one of the major factors that can be improved to sustain yield potential in cultivated crops. This book looks at disease resistance in wheat, concentrating on all the economically important diseases - their economic impact and geographical spread, breeding for resistance, pathogen variability, resistance mechanisms and recent advances made on resistance genes. Newer strategies for identifying resistance genes and identify resistance mechanisms are discussed, including cloning, gene transfer and the use of genetically modified plants. It is suitable for researchers and stu.

Plant Resistance to Insects Nov 11 2021 What is plant resistance to insects? How is plant resistance to insects obtained? How can plant resistance to insects be utilized?

Global Pesticide Resistance in Arthropods Apr 04 2021 Pesticide resistance has had a substantial impact on crop production and has been an important driver of change in modern agriculture, animal production and human health. Due to increased selection pressure, this resistance can be linked to export/import health and phytosanitary standards, invasive species eradication projects and global pandemics. However, the development of new biological and chemical products and the use of integrated pest management strategies have been successful in reducing pesticide resistance. Focusing specifically on arthropods, this book provides a comprehensive review of relevant issues in pesticide resistance. Detailed listings and references to all documented reports of resistance from around the world are included as well as discussions on the mechanisms and evolution of resistance and management techniques.

Plant Resistance to Viruses Mar 15 2022 Concern about the environmental consequences of the widespread use of pesticides has increased, and evidence of pesticide-resistant virus vectors have continued to emerge. This volume presents a timely survey of the mechanisms of plant resistance and examines current developments in breeding for resistance, with particular emphasis on advances in genetic engineering which allow for

the incorporation of viral genetic material into plants. Discusses the mechanisms of innate resistance in strains of tobacco, tomato, and cowpea; various aspects of induced resistance, including the characterization and roles of the pathogenesis-related proteins; antiviral substances and their comparison with interferon; and cross-protection between plant virus strains. Also presents several papers which evaluate the status of genetic engineering as it relates to breeding resistant plants. Among these are discussions of the potential use of plant viruses as gene vectors, gene coding for viral coat protein, satellite RNA, and antisense RNA, and practical issues such as the durability of resistant crop plants in the field.

Induced Resistance for Plant Defence Apr 16 2022 Plant diseases worldwide are responsible for billions of dollars worth of crop losses every year. With less agrochemicals being used and less new fungicides coming on the market due to environmental concerns, more effort is now being put into the use of genetic potential of plants for pathogen resistance and the development of induced or acquired resistance as an environmentally safe means of disease control. This comprehensive book examines in depth the development and exploitation of induced resistance. Chapters review current knowledge of the agents that can elicit induced resistance, genomics, signalling cascades, mechanisms of defence to pests and pathogens and molecular tools. Further chapters consider the topical application of inducers for disease control, microbial induction of pathogen resistance, transgenic approaches, pathogen population biology, trade offs associated with induced resistance and integration of induced resistance in crop protection. The book concludes with a consideration of socio-economic drivers determining the use of induced resistance, and the future of induced resistance in crop protection.

Pest Resistance to Pesticides and Crop Loss Assessment-2 Mar 03 2021

Host Plant Resistance to Insects Feb 14 2022 Contributed articles.

Breeding for Durable Disease and Pest Resistance Oct 30 2020

Pesticide Resistance Aug 28 2020 Based on a symposium sponsored by the Board on Agriculture, this comprehensive book explores the problem of pesticide resistance; suggests new approaches to monitor, control, or prevent resistance; and identifies the changes in public policy necessary to protect crops and human health from the ravages of pests. The volume synthesizes the most recent information from a wide range of disciplines, including entomology, genetics, plant pathology, biochemistry, economics, and public policy. It also suggests research avenues that would indicate how to counter future problems. A glossary provides the reader with additional guidance.

Induced Mutations for Disease Resistance in Crop Plants Jan 21 2020

Drought Resistance in Crops with Emphasis on Rice Jul 07 2021

Appropriate Oversight for Plants with Inherited Traits for Resistance to Pests Jul 27 2020 A report from a coalition of 11 scientific societies regarding the EPA's policy on genetically engineered plants and a proposal to regulate "plant-pesticides". Considers that pending federal regulations threaten to stifle the development of alternatives to chemical pesticides. Urges the EPA to reconsider its policy before it becomes final. The Agency wants to expand its federal regulatory powers over the characteristics of plants that help plants resist diseases and pests. Emphasizes that all plants are able to prevent, destroy, repel or mitigate pests or diseases. Illustrated.

Breeding Crops with Resistance to Diseases and Pests Oct 10 2021 'Breeding crops with resistance to diseases and pests' is the most up-to-date textbook on this topic targeted towards students in Plant Sciences. This book describes the most basic elements in plant pathogen interactions and defence strategies in plants. The scientific background is explained as far as it is relevant for breeders to make sensible choices in designing and running their breeding work. A major part of the book presents the options plant breeders have to consider such as what strategy to follow, what aspects to evaluate or measure, and whether it is best to apply mixtures of pathotypes or to test pathotypes one by one. Professionals, notably in the field of Plant Breeding, may also use it as a manual for disease resistance breeding. The book should be of interest to anyone interested in plant defence strategies and the enhancement of resistance in modern cultivars. In order to enliven and illustrate the text, background reading, interesting examples and exceptions, concrete cases of application and further reading are given. Supplementary reading is readily distinguished from the main text by a different typography, so it is clear what material is most relevant and what is meant as examples supporting the main story lines. Most sections are followed by exercises so that students can test whether they understood the material that was presented.

Induced Resistance for Plant Defense May 25 2020 Induced resistance offers the prospect of broad spectrum, long-lasting and potentially environmentally-benign disease and pest control in plants. Induced Resistance for Plant Defense 2e provides a comprehensive account of the subject, encompassing the underlying science and methodology, as well as research on application of the phenomenon in practice. The second edition of this important book includes updated coverage of cellular aspects of induced resistance, including signalling and defenses, costs and trade-offs associated with the expression of induced resistance, research aimed at integrating induced resistance into crop protection practice, and induced resistance from a commercial perspective. Current thinking on how beneficial microbes induce resistance in plants has been included in the second edition. The 14 chapters in this book have been written by internationally-respected researchers and edited by three editors with considerable experience of working on induced resistance. Like its predecessor, the second edition of Induced Resistance for Plant Defense will be of great interest to plant pathologists, plant cell and molecular biologists, agricultural scientists, crop protection specialists, and personnel in the agrochemical industry. All libraries in universities and research establishments where biological, agricultural, horticultural and forest sciences are studied and taught should have copies of this book on their shelves.

Pest Resistance to Pesticides and Crop Loss Assessment Jan 01 2021

Durable Resistance in Crops Jun 18 2022

Durable Resistance in Crops Nov 23 2022 Plant diseases and pests are a major constraint to agricultural production despite the various measures used to control them. Chemical control, although often effective, may pose environmental hazards and is relatively expensive, especially in developing countries where it may be completely uneconomic. Control through genetically mediated resistance to diseases and pests, is both cheap and environmentally safe and at present most diseases and pests on staple food crops are controlled through some form of resistance. One of the basic problems in the use of resistance is its frequent lack of durability; very often a type of resistance is used that 'breaks down' after a certain period. The temporary nature of this resistance, due to the development of new strains of pest or pathogen able to overcome it, has seriously hindered the improvement of the yield potential of many crops as a continuing effort is needed to replace old cultivars whose resistance has failed, with new ones. Following Vanderplank's now classical publications (1963, 1968) which differentiated horizontal and vertical resistance, studies on several host-parasite systems have shown that different types of resistance can be distinguished genetically and epidemiologically, and on the ability of the pests or pathogens to adapt to them. A knowledge of how resistance operates at the population level has also opened up possibilities of 'managing' relatively simple resistance types in such a way that a stable host-pathogen system can be produced with a minimum of crop loss.

Fungicide resistance in crop pathogens: how can it be managed? Aug 08 2021

Disease Resistance in Plants Mar 27 2023 Disease Resistance in Plants, Second Edition, looks at genetic, epidemiologic, biochemical, and biometric principles for developing new cultivars possessing genetic resistance to diseases. It examines the nature of disease resistance and resistance genes, and it highlights the importance of stabilizing selection, sugar, biotrophy, and necrotrophy to obtain the greatest possible yields.

Organized into 17 chapters, this volume begins with an overview of disease resistance in plants and the ways to develop disease-resistant variants. It then discusses unspecific resistance; the resistance gene paradox; susceptibility and resistance within narrow host taxa; phenotypic variation and gene numbers in host plants; discontinuous variation and cytoplasmic inheritance; and experimental difficulties in partitioning variance. The reader is also introduced to epistasis and the structure of virulence in pathogens; the notion of physiological race; how the pathogen adapts to the host; mutation in the pathogen from avirulence to virulence; horizontal and vertical resistance to disease and its epidemiological effects; and the link between protein polymorphism and vertical resistance. In addition, the book discusses genes for susceptibility in the host versus genes for avirulence (or virulence) in the pathogen; sink-induced loss of resistance; high-sugar disease processes and biotrophy; slow rusting of cereal crops; plant resistance against endemic disease; and the accumulation of resistance genes in heterogeneous host populations. This book will be useful to plant pathologists and plant breeders.

Drought Injury and Resistance in Crops Nov 30 2020 Techniques for Measuring Plant Drought Stress1 -- Drought Influence on Germination and Seedling Emergence1 -- Drought Influence on Physiological Processes and Subsequent Growth1 -- Effective Drought Control for Successful Dryland Agriculture1 -- Can We Breed for Drought Resistance?1 -- Front Matter.

Herbicide Resistance in Weeds and Crops Jun 06 2021 Herbicide Resistance in Weeds and Crops is a collection of papers presented at the 11th Long Ashton International Symposium in September 1989. The said symposium is held to study about the increasing incidence of herbicide-resistant weeds and the consideration of the production of herbicide-resistant crops. The book includes studies that suggest the delay and prevention of herbicide resistance; the gravity of the infestation of different herbicide-resistant weed; the management of herbicide resistance; and the mechanisms of herbicide tolerance. Also covered in the book are the improvement of different herbicides, as well as the prospective development of genetically engineered herbicide-resistant plants. Botanists, biochemists, and farmers would greatly benefit from the text, especially those who would like to explore and study the phenomenon.

Insect Resistance in Crop Plants Feb 26 2023

Glyphosate Resistance in Crops and Weeds Sep 09 2021 New technologies are becoming available for managing glyphosate resistant (GR) weeds and reducing their spread. GR crop technology has revolutionized crop production in the developed world and the benefits are gradually spilling over to the developing world. In order to sustain an effective, environmentally safe herbicide such as glyphosate and the GR crop technology well in to the future, it is imperative that the issue of GR weeds be comprehensively understood. This book provides such an essential, up-to-date source of information on glyphosate resistance for researchers, extension workers, land managers, government personnel, and other decision makers. Provides comprehensive coverage of the intensely studied topic of glyphosate resistant (GR) in crops Details the development of glyphosate resistance and how to detect and manage the problem in crops Helps standardize global approaches to glyphosate resistance Encompasses interdisciplinary approaches in chemistry, weed science, biochemistry, plant physiology, plant biotechnology, genetics, ecology Includes a chapter on economic analysis of GR impact on crops

Breeding for Resistance to Diseases and Insect Pests Apr 23 2020

Disease Resistance in Crop Plants Jan 25 2023 Human population is escalating at an enormous pace and is estimated to reach 9.7 billion by 2050. As a result, there will be an increase in demand for agricultural production by 60–110% between the years 2005 and 2050 at the global level; the number will be even more drastic in the developing world. Pathogens, animals, and weeds are altogether responsible for between 20 to 40 % of global agricultural productivity decrease. As such, managing disease development in plants continues to be a major strategy to ensure adequate food supply for the world. Accordingly, both the public and private sectors are moving to harness the tools and paradigms that promise resistance against pests and diseases. While the next generation of disease resistance research is progressing, maximum disease resistance traits are expected to be polygenic in nature and controlled by selective genes positioned at putative quantitative trait loci (QTLs). It has also been realized that sources of resistance are generally found in wild relatives or cultivars of lesser agronomic significance. However, introgression of disease resistance traits into commercial crop varieties typically involves many generations of backcrossing to transmit a promising genotype. Molecular marker-assisted breeding (MAB) has been found to facilitate the pre-selection of traits even prior to their expression. To date, researchers have utilized disease resistance genes (R-genes) in different crops including cereals, pulses, and oilseeds and other economically important plants, to improve productivity. Interestingly, comparison of different R genes that empower plants to resist an array of pathogens has led to the realization that the proteins encoded by these genes have numerous features in common. The above observation therefore suggests that plants may have co-evolved signal transduction pathways to adopt resistance against a wide range of divergent pathogens. A better understanding of the molecular mechanisms necessary for pathogen identification and a thorough dissection of the cellular responses to biotic stresses will certainly open new vistas for sustainable crop disease management. This book summarizes the recent advances in molecular and genetic techniques that have been successfully applied to impart disease resistance for plants and crops. It integrates the contributions from plant scientists targeting disease resistance mechanisms using molecular, genetic, and genomic approaches. This collection therefore serves as a reference source for scientists, academicians and post graduate students interested in or are actively engaged in dissecting disease resistance in plants using advanced genetic tools.

Return to Resistance Dec 24 2022 Return to Resistance: Breeding crops to reduce pesticide dependence

Global Plant Genetic Resources for Insect-Resistant Crops Dec 20 2019 An excellent reference book for plant breeders and entomologists, *Global Plant Genetic Resources for Insect-Resistant Crops* combines germplasm preservation with use in insect-resistant crop development and basic research. The contributions of the authors represent the efforts, cooperation, and understanding of world leaders in the conservation and use of global plant genetic resources for sustainable agricultural production. Concepts addressed include dependency of modern agriculture on chemical pest control and applications of biotechnology in use of natural plant genes for insect-resistant crops. Marketing Class Code: 1E, 1G, 9C

Plant Resistance to Arthropods Dec 12 2021 This book synthesizes new information about the environmental advantages of plant resistance, transgenic resistance, the molecular bases of resistance, and the use of molecular markers to map resistance genes. Readers are presented in-depth descriptions of techniques to quantify resistance, factors affecting resistance expression, and the deployment of resistance genes. New information about gene-for-gene interactions between resistant plants and arthropod biotypes is discussed along with the recent examples of using arthropod resistant plants in integrated pest management systems.

Herbicide Resistance in Plants Sep 21 2022 The late 1980s saw an explosion in the amount and diversity of herbicide resistance, posing a threat to crop production in many countries. The rapid escalation in herbicide resistance worldwide and in the understanding of resistance at the population, biochemical, and molecular level is the focus of this timely book. Leading researchers from North America, Australia, and Western Europe present lucid reviews that consider the population dynamics and genetics, biochemistry, and agro-ecology of resistance. Resistance to various herbicides is discussed in detail, as well as the mechanisms responsible for cross resistance and multiple resistance. This reference is invaluable to those interested in evolution and the ability of species to overcome severe environmental stress.

Genetics and Breeding for Crop Quality and Resistance Feb 02 2021 The book highlights the state of research in plant genetics and breeding and the results and applications of biotechnology procedures: i.e. achievements and perspectives of molecular biology and genetic engineering in the improvement of quantitative, qualitative and nutritional characters of crops, including their resistance to pests and diseases and their adaptation to different ecosystems. The book is divided into seven chapters. The first six are focused on the research aimed at improvement of resistance to Fungi, Bacteria, Nematode, Virus and Insect, and improvement of Quality. The latter was assigned two keynote lectures, respectively on agro-food quality and on quality of wood plants. Each chapter begins with a keynote paper. The seventh chapter includes the special lectures which opened and closed the Congress.

[Plant Breeding for Pest and Disease Resistance](#) Sep 28 2020 Studies in the Agricultural and Food Sciences: Plant Breeding for Pest and Disease Resistance presents a critical review of the development of resistant varieties of plant to pests and diseases. It discusses the economic impact of pests and diseases; the methods of controlling these pests and diseases; and the challenges being faced by a plant breeder. Some of the topics covered in the book are the general principles and methods of breeding for resistance; importance of parasite variability to the plant breeder; methods of testing for resistance; requirements for successful inoculation; production of resistant varieties; and economic importance of fungal diseases; and variability in fungal pathogen. Pathogenic fungi and fungal diseases are also covered. The control of fungal diseases by resistant varieties is discussed. An in-depth analysis of diseases in plants is provided. The characteristics of bacteria and bacterial diseases are also presented. A chapter is devoted to epidemiology of diseases associated with mycoplasma-like organisms and rickettsia-like organisms. The book can provide useful information to farmers, botanists, students, and researchers.

[Plant Pathogen Resistance Biotechnology](#) Jul 19 2022 Plant pathogens and diseases are among the most significant challenges to survival that plants face. Disease outbreaks caused by microbial or viral pathogens can decimate crop yields and have severe effects on global food supply. Understanding the molecular mechanisms underlying plant immune response and applying this understanding to develop biotechnological tools to enhance plant defense against pathogens has great potential for moderating the impact of plant disease outbreaks. Plant Pathogen Resistance Biotechnology's main focus is an in depth survey of the biological strategies being used to create transgenic disease resistant plants for sustainable plant resistance Plant Pathogen Resistance Biotechnology is divided into four sections. The first section covers biological mechanisms underpinning disease resistance in plants, while the second highlights case studies of important pathogen-crop groups and then considers why the application of important pathogen-crop groups, transgenic-based strategies designed to selectively target pathogens could benefit crop production. The third section provides information on the status of transgenic crops around the world, and finally the last part explores high-tech alternatives to genetic engineering for developing disease resistant traits in plants. Edited and authored by leaders in the field, Plant Pathogen Resistance Biotechnology will be an invaluable resource to those studying or researching plant biotechnology, plant pathology, plant biology, plant and crop genetics, in addition to crop science.

[Principles of Host-plant Resistance to Insect Pests](#) Jan 13 2022 Introduction; Insect-plant interaction; Host-plant selection in Phytophagous insects; Mechanisms of resistance; Biochemistry of resistance; Factors affecting expression of resistance; Resistance programme; Genetics of resistance; Plant resistance in pest management.

Molecular Biology in Plant Pathogenesis and Disease Management: Mar 23 2020 Investigations on various aspects of plant-pathogen interactions have the ultimate aim of providing information that may be useful for the development of effective crop disease management systems. Molecular techniques have accelerated the formulation of short- and long-term strategies of disease management. Exclusion and eradication of plant pathogens by rapid and precise detection and identification of microbial pathogens in symptomatic and asymptomatic plants and planting materials by employing molecular methods has been practiced extensively by quarantines and certification programs with a decisive advantage. Identification of sources of resistance genes, cloning and characterization of desired resistance genes and incorporation of resistance gene(s) into cultivars and transformation of plants with selected gene(s) have been successfully performed by applying appropriate molecular techniques. Induction of resistance in susceptible cultivars by using biotic and abiotic inducers of resistance is a practical proposition for several crops whose resistance levels could not be improved by breeding or transformation procedures. The risks of emergence of pathogen strains less sensitive or resistant to chemicals have been reduced appreciably by rapid identification of resistant strains and monitoring the occurrence of such strains in different geographical locations.

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