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Plant Pathology, Fifth Edition, is the most comprehensive resource and textbook that professionals, faculty and students can consult for well-organized, essential information. This thoroughly revised edition is 45% larger, covering new discoveries and developments in plant pathology and enhanced by hundreds of new color photographs and illustrations.

Plant Pathology — 5th Edition — Elsevier
Description. Plant Pathology presents information and advances in plant pathology including disease induction and development and disease resistance and control. This book is organized into two major parts encompassing 14 chapters that focus on diseases, pathogenicity, and pathogen variability. The first part of the book deals with general considerations of disease, the disease cycle, parasitism and pathogenicity, and the variability in pathogens.

Plant Pathology — 1st Edition — Elsevier
Physiological and Molecular Plant Pathology provides an International forum for original research papers, reviews, and commentaries on all aspects of the molecular biology, biochemistry, physiology, histology and cytology, genetics and evolution of plant-microbe interactions.

Physiological and Molecular Plant Pathology — Elsevier
Published by Plant Pathology, Second Edition incorporates developments in identifying pathogens and disease diagnosis. This book is organized into two major parts encompassing 16 chapters that discuss general aspects of plant diseases and specific plant diseases caused by various microorganisms. This edition includes chapters or sections on diseases caused by mycoplasma-like organisms, rickettsia-like bacteria, viroids, and protozoa.

Plant Pathology — 2nd Edition — Elsevier
Description. Plant Pathology: An Advanced Treatise, Volume I: The Diseased Plant presents an integrated synthesis of the scope, importance, and history of plant pathology, emphasizing the concept of disease, not of diseases. The book focuses on pathological processes, defense devices, predisposition, and therapy of the diseased plant.

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Physiological and Molecular Plant Pathology — News — Elsevier
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PLANT PATHOLOGY — Elsevier
It also covers the genetics of resistance and modern management on plant disease. Plant Pathology, Fifth Edition, is the most comprehensive resource and textbook that professionals, faculty and students can consult for well-organized, essential information. This thoroughly revised edition is 45% larger, covering new discoveries and developments in plant pathology and enhanced by hundreds of new color photographs and illustrations.

Plant Pathology | ScienceDirect
Published by Elsevier from 2016 Pathology is the official journal of the Royal College of Pathologists of Australasia (RCPA). It is committed to publishing peer-reviewed, original articles related to the science of pathology in its broadest sense, including anatomical pathology, chemical pathology and biochemistry, cytopathology, ...

Pathology — Journal — Elsevier
Plant Pathology is published on behalf of the British Society for Plant Pathology. Aims and Scope. This international journal, owned and edited by the British Society for Plant Pathology, covers all aspects of plant pathology and reaches subscribers in 80 countries. Top quality original research papers and critical reviews from around the world cover: diseases of temperate and tropical plants caused by fungi, bacteria, viruses, phytoplasmas and nematodes; physiological, biochemical ...

Plant Pathology
Plant pathology is a science that studies plant diseases and attempts to improve the chances for survival of plants when they are faced with unfavorable environmental conditions and parasitic microorganisms that cause disease. As such, plant pathology is challenging, interesting, important, and worth studying in its own right.

Plant Pathology — an overview | ScienceDirect Topics
Diagnosis. Intended as a text for plant bacteriology courses and as a reference for plant pathologists in agricultural extension services and experimental stations, Fundamentals of Bacterial Plant Pathology presents current information on bacterial morphology, taxonomy, genetics, and ecology. Diagnosis, disease management, and the molecular basis of host-pathogen interactions are examined.

Fundamentals of Bacterial Plant Pathology — 1st Edition
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Plant Pathology, Second Edition incorporates developments in identifying pathogens and disease diagnosis. This book is organized into two major parts encompassing 16 chapters that discuss general aspects of plant diseases and specific plant diseases caused by various microorganisms.

Plant Pathology | ScienceDirect
Plant pathology by George N. Agrios, 2004, Elsevier Academic Press edition, in English - 5th ed.

Plant pathology (2004 edition) | Open Library
Fingerprint Dive into the research topics where Plant Pathology and Environmental Microbiology is active. These topic labels come from the works of this organization's members. Together they form a unique fingerprint. Fusarium Medicine & Life Sciences

Plant Pathology and Environmental Microbiology — Penn State
Plant Pathology and Environmental Microbiology - Assistant Professor: Huck Institutes of the Life Sciences: Person: Academic. 2010 2020. David Meigs Beyer. Plant Pathology and Environmental Microbiology - Professor: Person: Academic. 1996 2019. Carolee Theresa Bull.

This fifth edition of the classic textbook in plant pathology outlines how to recognize, treat, and prevent plant diseases. It provides extensive coverage of abiotic, fungal, viral, bacterial, nematode and other plant diseases and their associated epidemiology. It also covers the genetics of resistance and modern management on plant disease. Plant Pathology, Fifth Edition, is the most comprehensive resource and textbook that professionals, faculty and students can consult for well-organized, essential information. This thoroughly revised edition is 45% larger, covering new discoveries and developments in plant pathology and enhanced by hundreds of new color photographs and illustrations. The latest information on molecular techniques and biological control in plant diseases Comprehensive in coverage Numerous excellent diagrams and photographs A large variety of disease examples for instructors to choose for their course

This book offers a collection of information on successive steps of molecular 'dialogue' between plants and pathogens. It additionally presents data that reflects intrinsic logic of plant-parasite interactions. New findings discussed include: host and non-host resistance, specific and nonspecific elicitors, elicitors of plant viruses, the purification, isolation and characterization of plant viruses, the architecture of plant viruses, the replication of plant viruses, the physiology of virus-infected hosts, vectors of plant viruses, and the nomenclature and classification of plants. The book also discusses defense strategies by utilizing antiviral agents and management strategies of virus and viroid diseases. With contributions from an international collection of experts, this book presents a practical resource for plant virologists, plant pathologists, horticulturalists, agronomists, biotechnologists, academics and researchers interested in up-to-date technologies and information that advance the field of plant virology. Covers the detection, control and management of plant viruses Discusses antiviral strategies, along with mechanisms of systemic induced resistance to enhance the defense of plants against viruses Provides contributory chapters from expert plant virologists from different parts of the world

The seminal text Plant Virology is now in its fifth edition. It has been 10 years since the publication of the fourth edition, during which there has been an explosion of conceptual and factual advances. The fifth edition of Plant Virology updates and revises many details of the previous edition while retaining the important earlier results that constitute the field's conceptual foundation. Revamped art. along with fully updated references and increased focus on molecular biology, transgenic resistance, aphid transmission, and new, cutting-edge topics, bring the volume up to date and maintain its value as an essential reference for researchers and students in the field. Thumbnail sketches of each genera and family groups Genome maps of all genera for which they are known Genetic engineered resistance strategies for virus disease control Latest understanding of virus interactions with plants, including gene silencing Interactions between viruses and insect, fungal, and nematode vectors Contains over 300 full-color illustrations

Microbiomes and Plant Health: Panoply and Their Applications includes the most recent advances in phytobiome research. The book emphasizes the use of modern molecular tools such as smart delivery systems for microbiol inoculation, next-generation sequencing, and genome mapping. Chapters discuss a variety of applications and examples, including the sugarcane microbiome, rhizoengineering, nutrient recycling, sustainable agricultural practices and bio-potential of herbal medicinal plants. Written by a range of experts with real-world practical insights, this title is sure to be an essential read for plant and soil microbiologists, phytopathologists, agronomists, and researchers interested in sustainable forestry and agriculture practices. Offers readers a one-stop resource on the topic of plant and soil microbiome and their applications in plant disease, sustainable agriculture, soil health and medicinal plants Addresses the role of phytobiome to combat biotic and abiotic factors Emphasizes the use of modern molecular tools such as smart delivery systems for microbial inoculation, next-generation sequencing and genome mapping

Applied Plant Virology: Advances, Detection, and Antiviral Strategies provides an overview on recent developments and applications in the field of plant virology. The book begins with an introduction to important advances in plant virology, but then covers topics including techniques for assay detection and the diagnosis of plant viruses, the purification, isolation and characterization of plant viruses, the architecture of plant viruses, the replication of plant viruses, the physiology of virus-infected hosts, vectors of plant viruses, and the nomenclature and classification of plants. The book also discusses defense strategies by utilizing antiviral agents and management strategies of virus and viroid diseases. With contributions from an international collection of experts, this book presents a practical resource for plant virologists, plant pathologists, horticulturalists, agronomists, biotechnologists, academics and researchers interested in up-to-date technologies and information that advance the field of plant virology. Covers the detection, control and management of plant viruses Discusses antiviral strategies, along with mechanisms of systemic induced resistance to enhance the defense of plants against viruses Provides contributory chapters from expert plant virologists from different parts of the world

Food Security and Plant Disease Management offers a comprehensive exploration of biocontrol, the latest technologies being used in plant health assurance, and resulting impacts on crop production and food security. Discussing both theoretical and practical topics, the book examines basic and advanced applications of biosensor and nano-technologies, introduces plant disease, including modes of action and their transmission in host plants, then covers factors contributing to plant disease and various means of addressing those diseases. This volume is part of the Microorganisms in Agriculture and the Environment series and provides important information for developing new effective plant protection practices. The direct or indirect applications of beneficial microbes in the treatment of plant disease is termed "microbial control" and these methods have increasingly been identified as important options for plant health management. The beneficial microbes as well as recent omic and nano-technologies also reveal important mechanisms that can be utilized in disease management strategies. Explores the impact of climate change on plant diseases and new methods of resolution Includes information on gene expression during crop disease management Presents insights into the legal and commercial aspects of microbial control

Intended as a text for plant bacteriology courses and as a reference for plant pathologists in agricultural extension services and experimental stations, Fundamentals of Bacterial Plant Pathology presents current information on bacterial morphology, taxonomy, genetics, and ecology. Diagnosis, disease management, and the molecular basis of host-pathogen interactions are examined. The book is well illustrated, includes both subject and taxonomic indexes, and provides suggestions for the further reading. Key Features * Provides an overview on phytopathogenic prokaryotes and plant prokaryote diseases * Contains detailed descriptions of topics of current interest including: * Molecular Genetics of Pathogenesis * Modern taxonomy and ecological behaviors of phytopathogenic prokaryotes * Biological control of plant prokaryote diseases * Presents full descriptions of eighteen selected diseases of economic interest

Plant Pathology presents information and advances in plant pathology including disease induction and development and disease resistance and control. This book is organized into two major parts encompassing 14 chapters that focus on diseases, pathogenicity, and pathogen variability. The first part of the book deals with general considerations of disease, the disease cycle, parasitism and pathogenicity, and the variability in pathogens. This is followed by a presentation of the mechanisms by which pathogens cause disease and plants resist disease. Core chapters focus on the effects of pathogen-produced enzymes, toxins, growth regulators, and polysaccharides on the structural organization and on the basic physiological processes of photosynthesis, translocation, and respiration. The chapters also discuss the defense mechanisms of the plant. Moreover, this book explains the genetics of host-parasite interaction, effects of environment on disease development, and control. The second part of the book deals with the infectious diseases caused by fungi, bacteria, parasitic higher plants, viruses, and nematodes. This part also looks into the noninfectious diseases caused by environmental factors. The diseases caused by each type of pathogen are discussed comprehensively as a group and are subsequently discussed individually in detail. This book includes diagrams of cycles for each disease to create visual images for better understanding of the disease and message retention. This book is ideal for students with introductory course in plant pathology.

Plant Pathology: An Advanced Treatise, Volume III: The Diseased Population Epidemics and Control deals with the epidemics of the diseased population of plants and their forecasting and control. The book highlights the public health implications of plant pathology, giving major consideration to inoculum production, dispersal, and control. This volume is organized into 14 chapters and begins with an overview of populations of inoculum and the consequences of cultivation, emphasizing the inoculum potential. The next chapters focus on the autonomous dispersal of plant pathogens through the soil, seeds, or plant parts: the inoculum dispersal by animals, humans, air, and water; and the factors and processes that trigger an epidemic. The book also introduces the reader to the physical, chemical, and biological aspects of the performance of fungicides on plants and in soil, and then concludes by discussing the genetics of disease resistance and problems associated with plant breeding. This book is a valuable resource for those who are interested in a theoretical treatment of plant pathology and in the broad ecological relationships among organisms, as well as for research workers and advanced students of applied biology.

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