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Infectious plant diseases are caused by bacteria, fungi, or viruses and can range in severity from mild leaf or fruit damage to death. The following is a list of some of the major plant diseases, grouped by type of causative agent and ordered

[List of plant diseases - Encyclopedia Britannica](#)

The most common diseases of cultivated plants are bacterial wilt, chestnut blight, potato late blight, rice blast, coffee rust, stem rust, downy mildew, ergot, root knot, and tobacco mosaic. This is a small list of the more than 50,000 diseases that attack plants. Diseases can be categorized as annihilating, devastating, limiting, or debilitating.

[Plant Diseases | Encyclopedia.com](#)

Plant disease, an impairment of the normal state of a plant that interrupts or modifies its vital functions. Plant diseases can be classified as infectious or noninfectious, depending on the causative agent. Learn more about the importance, transmission, diagnosis, and control of plant diseases.

[Plant disease - Encyclopedia Britannica | Britannica](#)

[Plant Diseases | Encyclopedia.com](#) Infectious plant diseases are caused by bacteria, fungi, or viruses and can range in severity from mild leaf or fruit damage to death. The following is a list of some of the major plant diseases, grouped by type of causative agent and ordered alphabetically. bacterial List of plant diseases -

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Most names for plant diseases are descriptive of the physical appearance of the affected plant, e.g., blight (a rapid death of foliage, blossom, or the whole plant); leaf spot, fruit spot and scab, and stem canker (localized death of an organ); wilt (loss of turgor); gall (overgrowth of cells); witches'-broom (growth of abnormal shoots); stunting (underdevelopment); and leaf curl, mosaic, and yellows (resulting from chlorosis, or lack of chlorophyll). Many of these abnormalities are caused ...

diseases of plants | Encyclopedia.com

World Encyclopedia of Plant Bacterial Diseases. Previous Next. Meet Professor Milton N. Schroth. Professor Schroth assembled an incredible amount of data and images of world ' s most important bacterial plant diseases, an indispensable resource for diagnostic purposes for scientists, gardeners and teachers.

Plant Diseases

Moko Disease of Banana and Bacterial Wilt of Heliconia (*Ralstonia solanacearum*, Race 2); Blood Disease of Banana Caused by Different Strains in the *Ralstonia solanacearum* Complex. BEAN. Halo Blight of Bean (*Pseudomonas syringae* pv. *phaseolicola*) CITRUS. Citrus Greening ('*Candidatus Liberibacter asiaticus*') CITRUS. Citrus Canker (*X. citri* subsp. *citri*) CITRUS

Disease Narratives | plantsdb - Plant Diseases

Plant pathology (phytopathology) is the study of the nature, causes, prevention and socioeconomic aspects of plant diseases. Plant diseases are recognized by symptoms such as necrosis (death of cells or tissues), chlorosis (yellowing), wilting (shoot and leaf drooping), rot, dwarfing, tumefaction (formation of gall or localized swelling), bronzing or damping-off (plant toppling), etc. Plant diseases are separated into nonparasitic (noninfectious, nontransmissible) and parasitic (infectious ...

Plant Disease | The Canadian Encyclopedia

From Wikipedia, the free encyclopedia This is a list of articles that are lists of plant diseases.

Lists of plant diseases - Wikipedia

Bacterial plant diseases, or bacterioses, include plant cancer, stem wilt of potatoes, various types of bacterial rot, and bacterial blight of fruit trees and tobacco. Fungous plant diseases, or mycophytoses, include various types of plant rusts, smuts, powdery mildew, fusarioses, rots, cytosporoses, and ascochytooses.

Plant Diseases | Article about Plant Diseases by The Free ...

Plant Disease | The Canadian Encyclopedia Plant disease, an impairment of the normal state of a plant that interrupts or modifies its vital functions. Plant diseases can be classified as infectious or noninfectious, depending on the causative agent. Learn more about the importance, transmission, diagnosis, and control of plant diseases.

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Fungal plant diseases caused by basidiomycetes Powdery mildews in plants Fungal plant diseases caused by zygomycetes Scab diseases in plants Dutch elm disease Slime moulds in plants Black mildew in plants Plant diseases caused by deuteromycetes Fungal plant diseases caused by ascomycetes Heart rot fungi Club root of cabbage Black sigatoka disease Red core disease of strawberry Bacterial plant...

Plant diseases - The Encyclopedia of World Problems

Plant pathology is the scientific study of diseases in plants caused by pathogens and environmental conditions. Organisms that cause infectious disease include fungi, oomycetes, bacteria, viruses, viroids, virus-

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like organisms, phytoplasmas, protozoa, nematodes and parasitic plants. Not included are ectoparasites like insects, mites, vertebrate, or other pests that affect plant health by eating of plant tissues. Plant pathology also involves the study of pathogen identification, disease etiology

Plant pathology - Wikipedia

diseases of plants. Most plant diseases are caused by fungi, bacteria, and viruses. Although the term disease is usually used only for the destruction of live plants, the action of dry rot and the rotting of harvested crops in storage or transport is similar to the rots of growing plants; both are caused by bacteria and fungi.

diseases of plants | Infoplease

Andersen and Stalpers (1994) found the *Rhizoctonia* epithets species cause diseases in crops and are a facultative plant pathogen: *Rhizoctonia crocorum* is the violet root rot of carrots, and is a causal agent for root rot, collar rot, dry rot, leaf spot, and stem rot in vegetables (Khadri et al., 2013), affecting the quality of the seeds (Kaur et al., 2012) and causing infection in cotton plants (Abdallah et al., 2016).

Plant Disease - an overview | ScienceDirect Topics

Plant diseases have caused severe losses to humans in several ways. Starvation and uprooting of families resulted from the Irish famine caused by potato late blight (caused by *Phytophthora infestans*). A valued resource was lost with the virtual elimination of the American chestnut by chestnut blight (caused by *Cryphonectria parasitica*).

Plant Disease Management

RHS can give expert help and advice on growing, feeding, pruning and propagating plants. From the smallest bulbs to the biggest tree, we're here to help.

Help, advice & tips from the RHS on all kinds of plants...

Destruction of diseased plants helps control Dutch elm disease, oak wilt, and peach viral diseases—mosaic, phony peach, and rosette. Elimination of citrus canker in the southeastern United States has been one of the few successful eradication programs in history. Infected trees were sprayed with oil and burned.

An easy-to-use single reference source covering the full range of subject areas associated with plant pathology! This comprehensive volume covers the entire field of plant pathology. It does not merely define the numerous subjects covered (297 topics carefully arranged in 38 sections!) but describes them in detail. Each section of this book serves as a comprehensive overview of a given area, providing breadth of coverage for students and depth of coverage for research professionals. In addition to providing a dictionary of plant pathological terms and a complete list of crop diseases, accepted names, synonyms, and anamorphic/telemorphic names of pathogens, the Concise Encyclopedia of Plant Pathology is an essential reference for: the latest nomenclature and classification of each crop bacterial pathogen the complete listing of crop fungal pathogens, with their revised systematic position and classification of viruses into species, genera, families, and orders classification of phytoplasmas and spiroplasmas disease assessment, remote sensing, and digital image analysis molecular diagnostic tools, plant clinics, and forecasting models in depth microbial pesticides induced systemic resistance mycorrhiza molecular marker-assisted selection, pyramiding of genes, and durable resistance genetic engineering and transgenic plants in vitro selection of resistant varieties three kingdoms containing fungal phyla and the most recent refined classification of fungal phyla

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based on molecular studies bactericides and viricides seed health testing indexing plant-propagation materials plant activators and plant extracts postharvest diseases molecular biology of host resistance the complete list of fungicides, plus ready-formulated fungicide mixtures, classification and mode of action of fungicides, the spectrum of diseases controlled by each fungicide, a computer-based decision support system, fungicide resistance, and modern application equipment and much, much more! With the Concise Encyclopedia of Plant Pathology you'll examine the ancient history of plant pathology; structure, nomenclature, and classification of fungal, bacterial, viral, and phytoplasma pathogens; parasitic protozoa, green algae, nematodes, and parasitic higher plants; disease assessment, remote sensing and digital image analysis; molecular disease diagnostics; disease progress curve models and forecasting models; several novel disease management strategies; and a great deal more. This well-organized, readily accessible reference is an invaluable handbook for students, educators, and practicing plant pathologists.

The book entitled “ Plant Pathology at a Glance ” has been written exclusively for under graduate and post graduate students of general Botany, Mycology, Microbiology, Plant Virology, Plant Bacteriology, Plant Nematology and Plant Pathology. It covers core courses prescribed by most of the Universities and Institutions. The book has been divided into fifteen chapters dealing with difference aspects of Plant Pathology and its sub disciplines. Plant diseases incited by different biotic and abiotic pathogens have also been described in brief, making the book comprehensive, informative and all in one.

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 International: (Tel) +44 (0) 20 7017 6062 / (E-mail) online.sales@tandf.co.uk

Discover how the application of novel multidisciplinary, integrative approaches and technologies are dramatically changing our understanding of the pathogenesis of infectious diseases and their treatments. Each article presents the state of the science, with a strong emphasis on new and emerging medical applications. The Encyclopedia of Infectious Diseases is organized into five parts. The first part examines current threats such as AIDS, malaria, SARS, and influenza. The second part addresses the evolution of pathogens and the relationship between human genetic diversity and the spread of infectious diseases. The next two parts highlight the most promising uses of molecular identification, vector control, satellite detection, surveillance, modeling, and high-throughput technologies. The final part explores specialized topics of current concern, including bioterrorism, world market and infectious diseases, and antibiotics for public health. Each article is written by one or more leading experts in the field of infectious diseases. These experts place all the latest findings from various disciplines in context, helping readers understand what is currently known, what the next generation of breakthroughs is likely to be, and where more research is needed. Several features facilitate research and deepen readers' understanding of infectious diseases:

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Illustrations help readers understand the pathogenesis and diagnosis of infectious diseases Lists of Web resources serve as a gateway to important research centers, government agencies, and other sources of information from around the world Information boxes highlight basic principles and specialized terminology International contributions offer perspectives on how infectious diseases are viewed by different cultures A special chapter discusses the representation of infectious diseases in art With its multidisciplinary approach, this encyclopedia helps point researchers in new promising directions and helps health professionals better understand the nature and treatment of infectious diseases.

Covers the development and reproduction of plants, crop improvement, plant pathology and disease, environmental stress responses, genetics and genomics of plants, human uses for plants. It tackles critical advancements and controversies and the fundamental physiology and biochemistry of plants.

Plant pathology embraces all aspects of biological and scientific activity which are concerned with understanding the complex phenomena of diseases in plants. Physiological plant pathology represents those specialities within plant pathology which focus on the physiological and biochemical activities of pathogens and on the response of host plant tissues. Today there is an increasing recognition on the part of the scientific agri cultural community that only through a deeper and more fundamental under standing of all the interacting components of the agricultural biota can we expect to improve our capabilities of feeding an expanding world population. It is in this context that physiological plant pathology has assumed new significance within the broader field of plant pathology. No longer are studies on the biochemistry and physiology of pathogens and pathogenesis merely isolated academic exercises; rather, a substantial coherent body of knowledge is accumulating upon which our understanding of the process of disease developmen t and host resistance is being founded. It is from these foundations of knowledge that ultimately new insights into the control of plant diseases may be expected to grow. It seems appropriate, therefore, that at regular intervals those involved in the various subspecialities encompassing the broadest aspects of physiological plant pathology reassess the contributions within the particular specialities in the light of new knowledge and technologies for the purpose of articulating new and productive directions for the future.

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