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Black Sigatoka Disease of Banana and Plantain - - 1998

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Bananas and Plantains - S. Gowen - 2012-12-06

In a field of mature bananas, plants can be seen at all stages of vegetative growth and fruit maturity, providing a fascination for anyone who has an interest in growing crops. Banana farmers in the tropics can harvest fruit every day of the year. The absence of seasonality in production is an advantage, in that it provides a continuity of carbohydrate to meet dietary needs as well as a regular source of income, a feature that perhaps has been under-estimated by rural planners and agricultural strategists. The burgeoning interest in bananas in the last 20 years results from the belated realization that Musa is an under-exploited genus, notwithstanding the fact that one genetically narrow group, the Cavendish cultivars, supply a major export commodity second only to citrus in terms of the world fruit trade. International research interest in the diversity of fruit types has been slow to develop, presumably because bananas and plantains have hitherto been the needs of the household, and in this situation relatively untroubled by pests, diseases or agronomic problems.

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Mycosphaerella Leaf Spot Diseases of Bananas - 2003

On-farm yield loss assessment of black sigatoka on plantain and banana - 1998

Post-harvest Characteristics of Black Sigatoka Resistant Banana, Cooking Banana and Plantain Hybrids -

Handbook of Diseases of Banana, Abaca and Enset - David R Jones - 2018-12-14
This book provides a comprehensive guide to the large number of diseases, disorders and injuries that can cause severe economic losses to banana, abacá and enset crops, and the fungi, bacteria, phytoplasmas, viruses, nematodes and abiotic factors involved. The monoculture of certain banana cultivars in large plantations make the crop particularly susceptible to catastrophic losses from disease and smallholders can also experience major problems. New approaches to breeding, crop management and handling are being developed to meet challenges posed by emerging threats. Handbook of Diseases of Banana, Abacá and Enset both describes and illustrates diseases and is printed in full colour throughout, creating a valuable diagnostic tool. It covers: - The origin and classification of banana, the safe movement of Musa germplasm and banana breeding for disease resistance. - Recent areas of growing research on the most important diseases of banana, such as black leaf streak, Fusarium wilt, Xanthomonas bacterial wilt and bunchy top. - Significant advances relating to pathogens causing less serious and widespread diseases. Authored by an international team of experts, this is an essential reference for all 'banana doctors' around the world. It serves as a useful field and laboratory guide, as well as a source of information for all those investigating diseases of banana, abacá and enset crops.

Fusarium wilt of Banana, a Recurring Threat to Global Banana Production - Gert H. J. Kema - 2021-02-17
Fusarium wilt of Banana, a Recurring Threat to Global Banana Production
years of changing control strategies; Use of systemic fungicides to control

**Systemic Fungicides** - R. W. Marsh - 1972  

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**Banana** - Dan Koeppel - 2008  
From its early beginnings in Southeast Asia, to the machinations of the United Fruit Company in Costa Rica and Central America, the banana’s history and its fate as a victim of fungus are explored.

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**Sigatoka Leaf Spot Diseases of Bananas** - R. A. Fullerton - 1990  
Bibliographic survey; Bibliometric analysis of Sigatoka literature; Studies of Mycosphaerella fijiensis Morelet in the Pacific Islands; Black Sigatoka - A threat to Australia; Update of research on banana leaf spot disease control in the Windward Islands; Update of research of Mycosphaerella spp in Colombia; Economic impact of Sigatoka disease in Brazil; Effect of black Sigatoka (Mycosphaerella fijiensis Morelet) on bananas and plantains in the Imbo plain in Rwanda and Burundi; Fungicides; Sigatoka leaf spot: thirty years of changing control strategies; Use of systemic fungicides to control leaf spot diseases in Musa; Mode of action of tridemorph and sensitivity of Mycosphaerella fijiensis; Evaluation of sensitivity of Mycosphaerella fijiensis to propiconazole; Observations on the sensitivity of the Mycosphaerella fijiensis monitoring method to triazole fungicides; Spraying Systems; Practical notes on black Sigatoka control; Adaptation of a forecasting system to control black Sigatoka in a traditional plantain small holding in Panama; La lutte integree contre la cercosporiose noire des bananiers au Cameroun: l’ avertissement biologique et son evolution de 1985 a 1988; Strategies de lutte chimique contre la cercosporiose noire des bananiers au Cameroun: efficacites comparees de differentes molecules fungicides, strategies d’alternance; New approaches for clorothalonil use in strategies to control Mycosphaerella fijiensis; Epidemiology; A mechanistic computer simulation model of Sigatoka.

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Fusarium Wilt of Banana - Randy C. Ploetz - 1990
Fusarium wilt of banana: some history and current status of the disease; Importance of fusarium wilt in different banana-growing regions; Taxonomy of fungi in the genus fusarium with emphasis on fusarium oxysporum; Genetic exchange within sexual and asexual populations of the genus fusarium; Molecular genetics of plant pathogenic fusarium oxysporum; Using karyotype variability to investigate the origins and relatedness of isolates of fusarium oxysporum f. sp. cubense; Population biology of fusarium oxysporum f. sp. cubense; Biological control of diseases caused by fusarium oxysporum; Influence of mineral nutrition on fusarium wilt: a proposed mechanism involving cell water relations; Host responses to the pathogen; Banana breeding and fusarium wilt; Breeding bananas and plantains for resistance to fusarium wilt: the track record; Somaclonal resistance in cavendish banana to fusarium wilt; Baseline tissue and cell culture studies for use in banana improvement schemes.

Smart Industry & Smart Education - Michael E. Auer - 2018-07-24
The REV conference aims to discuss the fundamentals, applications and experiences in remote engineering, virtual instrumentation and related new technologies, as well as new concepts for education on these topics, including emerging technologies in learning, MOOCs & MOOLs, Open Resources, and STEM pre-university education. In the last 10 years, remote solutions based on Internet technology have been increasingly deployed in numerous areas of research, science, industry, medicine and education. With the new focus on cyber-physical systems, Industry 4.0, Internet of Things and the digital transformation in industry, economy and education, the core topics of the REV conference have become indispensable elements of a future digitized society. REV 2018, which was held at the University of Applied Sciences in Duesseldorf from 21–23 March 2018, addressed these topics as well as state-of-the-art and future trends.

Report on Caribbean Black Sigatoka Management Workshop - -

Climate-Smart Food - Dave Reay - 2019-01-01
This open access book asks just how climate-smart our food really is. It follows an average day's worth of food and drink to see where it comes from, how far it travels, and the carbon price we all pay for it. From our
Climate-Smart Food - Dave Reay - 2019-01-01
This open access book asks just how climate-smart our food really is. It follows an average day's worth of food and drink to see where it comes from, how far it travels, and the carbon price we all pay for it. From our breakfast tea and toast, through breaktime chocolate bar, to take-away supper, Dave Reay explores the weather extremes the world's farmers are already dealing with, and what new threats climate change will bring. Readers will encounter heat waves and hurricanes, wildfires and deadly toxins, as well as some truly climate-smart solutions. In every case there are responses that could cut emissions while boosting resilience and livelihoods. Ultimately, we are all in this together, our decisions on what food we buy and how we consume it send life-changing ripples right through the global web that is our food supply. As we face a future of 10 billion mouths to feed in a rapidly changing climate, its time to get to know our farmers and herders, our vintners and fisherfolk, a whole lot better. Dave Reay is Professor of Carbon Management at the University of Edinburgh, UK. He has studied climate change for over 20 years, from warming impacts in the Southern Ocean, through carbon fluxes in forests, to greenhouse gas emissions from wetlands and agriculture. In 2018 he received the Chancellors Award for Teaching for his work in climate change education. His latest project involves managing a large area of coastal land in Scotland to regrow native tree species and trap a lifetime's carbon.

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Food Crop Production by Smallholder Farmers in Southern Africa - objectives of multilocational evaluation; Design and manage multilocational evaluation trials; evaluate sigatoka severity, leaf and symptom development, growth, flowering and harvesting parameters.

Food Crop Production by Smallholder Farmers in Southern Africa: Challenges and Opportunities for Improvement evaluates traditional cultivation practices used by smallholder farmers, providing a synthesis of the latest information on increasing crop yield through adoption of research innovations. The book catalogs smallholder cultivation practices and recommends innovative strategies for improving the agriculture sector including: management practices that reduce net carbon emissions; technologies that improve soil structures and conserve the natural resources base; means of empowering female resources along value chains; and government commitment to adopt policies that enhance agriculture productivity by encouraging farmers to use environmentally sound cultivation technologies. Traditional farming techniques often produce negative impacts on the environment and ecosystem resulting in outbreaks of diseases and pests. In addition to the region’s recurrent droughts, these outbreaks of numerous diseases and pests, weeds and other invasive plants put thousands at risk of poverty and hunger, as well as malnutrition. This book presents enhanced agricultural production technologies for ensuring adequate food production, safety and nutritional quality for the population of Southern Africa and forms the basis for an increased SADC regional effort in food production through which financial and trade institutions can improve stakeholder capacities, encourage micro-enterprise development and enhance employment and regional trade. Provides a critical synthesis of data and information for increasing crop yield through adoption of research innovations Evaluates traditional and scientific interventions that address food security issues of the poor farmers in the region Presents agro-ecologies of countries in the region and how they relate to various cultivation practices Catalogs smallholder cultivation practices and recommends innovative strategies for improving the agriculture sector

Banana Root System: towards a better understanding for its productive management - David W. Turner - 2005
Banana root deterioration and impacts on production; Root anatomy and morphology; Root physiology; Soils and root development; Pathogen: root system interactions.
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Banana Nutrition - Afam I. O. Jideani - 2020-01-22
Banana Nutrition - Function and Processing Kinetics covers the nutritional aspects of the banana plant and fruit. The book contains substantial scientific information written in an easy-to-understand format. The chapters include information on pharmacological aspects of banana; banana bioactives: absorption, utilization, and health benefits; banana pseudo-stem fiber: preparation, characteristics, and applications; banana drying kinetics and technologies; and integrating text mining and network analysis for topic detection from published articles on banana sensory characteristics. All the chapters contain recent advances in science and technology regarding the banana that will appeal to farmers, plant breeders, food industry, investors, and consumers as well as students and researchers. Readers will harness valuable information about the banana in controlling food security and non-communicable nutrition-related human illnesses.

Handbook of Plant Disease Identification and Management - Balaji Aglave - 2018-09-03
Handbook of Plant Disease Identification and Management presents the fundamentals of plant diseases identification based on symptomology and management focusing mainly on integrated pest management approach. It discusses a variety of techniques for the diagnosis of crop disease, losses due to crop diseases, and theories behind disease management. It describes how society is constraining the possibilities for management of crop diseases by changing the environment; biologically controlling crop diseases; and the epidemiologic and genetic concepts of managing host genes. This book discusses managing diseases through diverse chemical, biological, and physical methods. It highlights climatic factors affecting crops by creating favorable condition for most of the diseases. This book serves as a complete guide for growers, researchers, and graduate students to understand basics of plant disease identification. It explains the disease cycle for respective crops with favorable conditions promoting disease development. It intends to aid growers in managing diseases and help scientists with future research.
biology, genetic engineering, and integrated pest management. Includes scientists with future research.

**Advances in Information Communication Technology and Computing**
- Vishal Goar - 2020-08-18
This book features selected research papers presented at the International Conference on Advances in Information Communication Technology and Computing (AICTC 2019), held at the Government Engineering College Bikaner, Bikaner, India, on 8–9 November 2019. It covers ICT-based approaches in the areas ICT for energy efficiency, life cycle assessment of ICT, green IT, green information systems, environmental informatics, energy informatics, sustainable HCI and computational sustainability.

**Tropical Plant Diseases**
- H. David Thurston - 1998

**Banana, Plantain, and Abaca Diseases**
- Robert Harry Stover - 1972

**Banana Breeding**
- Michael Pillay - 2011-01-21
With the current world population growth of 1.2%, the earth can expect to house 9-10 billion people by 2050. Food production, too, must increase to accommodate these numbers. Easy growing, high calorie, nutritious foods, such as bananas are the top priority as a solution to this imminent problem. The first comprehensive compendium on bananas in rec

**Global Evaluation of Musa Germplasm for Resistance to Fusarium Wilt, Mycosphaerella Leaf Spot Diseases and Nematodes**
- Dirk De Waele - 2003
Evaluation of resistance to Fusarium wilt; Evaluation of resistance to Mycosphaerella leaf spot diseases; Evaluation of resistance to nematodes.

**Banana Improvement**
- S. Mohan Jain - 2004
This reference book is a joint publication of FAO/IAEA and International
Basic Plant Pathology Methods - James B. Sinclair - 2017-11-22
The Second Edition of this bestseller brings together basic plant pathology methods published in diverse and often abstract publications. The Second Edition is updated and expanded with numerous new figures, new culture media, and additional methods for working with a greater number of organisms. Methods are easy to use and eliminate the need to seek out original articles. This reference allows for easy identification of methods appropriate for specific problems and facilities. Scientific names of pathogens and some of their hosts are updated in this edition. The book also acts as a research source providing more than 1,800 literature citations. The Second Edition includes chapters on the following: Sterilization of culture apparatus and culture media Culture of pathogens with detailed techniques for 61 fungi and selected bacteria Long-term storage of plant pathogens Detection and estimation of inoculum for 28 soilborne fungal pathogens and 5 bacterial genera-15 methods for airborne inoculum and 13 methods for seedborne pathogens Establishment of disease and testing for disease resistance Work with soil microorganisms Fungicide evaluation Biological control Bright-field microscopy

Banana Improvement - S. Mohan Jain - 2004
This reference book is a joint publication of FAO/IAEA and International Network for the improvement of Banana and Plantain (INIBAP) and will be useful to international researchers engaged in banana genetic improvement for enhanced food security, nutrition, and employment generation.

Flavour Science - Maria Flávia A. Penha - 2013-07-29
In Brazil, black leaf streak disease, also known as black Sigatoka, is devastating to traditional banana cultivars. Government research institutes are developing new resistant varieties, but if the sensory properties are not taken into account, the breeding program may not succeed. The objective of this work was to compare, by principal component analysis (PCA), the volatile profile (GC-MS) of the most popular banana cultivars in Brazil (Prata and Pacovan), susceptible to black Sigatoka, with nine resistant hybrids. Results showed that Galil 18 and Pacovan Ken were similar to traditional cultivars. Japira presented the richest volatile profile. These cultivars have great potential to replace fruits that are susceptible to banana diseases.

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Diseases of Banana, Abacá, and Enset - David Robert Jones - 2000
This book provides a comprehensive guide to the large number of diseases, disorders and injuries that can cause severe economic losses to banana, plantain, abaca and enset crops. Most of the diseases are described and illustrated in colour, making the book valuable as a diagnostic tool. It also provides information on the fungi, bacteria, viruses, nematodes and abiotic factors involved in the diseases/disorders described. Information is provided on the origin and classification of banana, the safe movement of Musa germplasm and banana breeding, including possibilities for genetic engineering for disease resistance.

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Plant Pathosystems - Raoul A. Robinson - 2012-12-06
One of the points clearly stressed in the beginning of this book is that the essential feature of any dynamic system is change and that, where there is change, there may also be growth and evolution. Plant breeding and plant protection have grown and evolved considerably during the past century; they have also witnessed several, important Hegelian changes. This book, by R.A.Robinson, is just such a change in scientific thinking. It is unique in presenting an entirely new insight to plant-parasite relationships, and in providing a practical guide for managing plant pathosystems for man's advantage in agriculture. The author brings together for the first time in a holistic manner the various plant protection and breeding disciplines; he analyses their past limitations and deficiencies and throws useful new light on the nature of parasitism. From this he is able to gain a clear understanding of the functions of the various pathosystem components. On the basis of this understanding he then proposes practical ways for using these components to achieve and maintain the type of balance which is the basis of survival in any evolutionary system, including that of man himself. All this is done in a lively and elegant manner, using logic as the main driving force to elucidate and define entirely new concepts without obstruse mathematical or biochemical formulae.

The Origin, Versatility and Distribution of Azole Fungicide Resistance in the Banana Black Sigatoka Pathogen Pseudocercospora Fijensis - 2016
The Origin, Versatility and Distribution of Azole Fungicide Resistance in the Banana Black Sigatoka Pathogen
current trends in fungicide use.

**Bananas and Plantains** - John Charles Robinson - 2010
Bananas and plantains are major fruit crops in the tropics and subtropics, making a vital contribution to the economies of many countries. In the last 15 years, substantial changes have occurred in banana production, among them the increased importance of fungal and viral diseases and their serious impact on Cavendish export cultivars, smallholder plantains and cooking bananas. Changes in production systems such as protected greenhouse cultivation, organic, fair-trade and integrated cultivation and their respective certification schemes have also become prominent. This book provides an accessi.

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**Fungicides in Crop Protection, 2nd Edition** - Richard P. Oliver - 2014-10-24
Plant pathogenic fungi cause devastating damage to crop production worldwide. The growing global population necessitates reduced crop losses to improve food security, and the control of fungal plant pathogens is vital to help maintain food production. Providing a concise and balanced review of fungicides used in crop protection, this book describes the science of fungicide use, selection and resistance within the context of farming situations. Major updates and additions reflecting the emergence of two new classes of fungicides (strobilurins and SDHI) and the increased incidence of fungicide resistance are included in this new edition, which also discusses legislative requirements to reduce fungicide applications, and current trends in fungicide use.

**Banana Diseases** - S. F. Ashby - 1913

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**Controlled and Modified Atmospheres for Fresh and Fresh-Cut Produce** - Maria Isabel Gil - 2020-02-12
Controlled and Modified Atmospheres for Fresh and Fresh-Cut Produce is the ultimate reference book of CA/MA recommendations for selected commodities. It includes the basic knowledge of physiology and technologies to the current application of recommended CA/MAP conditions for fresh and fresh-cut fruits and vegetables. For each commodity, a summary with requirements and recommendations is presented. The book is divided into three parts, with each focusing on different aspects of CA/MA, including fundamental topics on the physiological and quality effects of CA and MAP for fresh and fresh-cut fruits and vegetables, optimal CA/MAP conditions and recommendations, and optimal conditions for fresh-cut fruits and vegetables. Provides guidelines and recommendations of CA/MAP for the fresh produce industry Illustrates the benefits and defects caused by CA/MA in full color Brings more than 54 fruits and vegetables and their respective summary with the requirements and recommendations of CA/MA
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**Pathogenicity Mechanisms of Mycosphaerella Fijiiensis, Causal Agent of the Black Sigatoka Disease of Banana** - Roslyn Danielle Noar - 2016

**Innovations in Food Labelling** - J Albert - 2014-01-23
Increasingly, consumers desire information about the health, safety, environmental and socioeconomic characteristics of food products. These traits often cannot be detected by sight, smell or taste. Therefore, consumers must use food labels to select products that meet their needs and preferences. The growing consumer and industry interest in food labels presents challenges for governments, which must ensure that the product information is accurate, truthful and not misleading to consumers. Governments must decide whether provision of information should be mandatory or voluntary. With the increase in global trade in food, there is a need to harmonize food labels so that product information is understood and relevant to foreign markets. Innovations in food labelling provides information about the principles and requirements of food labelling and reviews the latest trends in this important area. Following an introduction on the evolution of food labelling, further chapters cover the Codex Alimentarius and food labelling, international trade agreements, nutrition labelling, allergies and food labels and environmental and social labels, among other topics. An essential reference for food regulatory agencies, food law experts and professionals in the food industry responsible for labelling as well as consumer and environmental associations with an interest in labelling. Provides important information about the principles and requirements of food labelling and reviews the trends in this area. Documents label evolution and considers standards and legal issues, as well as protection of the environment and sustainable food production. Features labels for a variety of different markets, including organic foods, and addresses social issues such as association of food quality with location.
and processing technologies for both well-known and lesser-known fruits. Food law experts and professionals in the food industry responsible for labelling as well as consumer and environmental associations with an interest in labelling. Provides important information about the principles and requirements of food labelling and reviews the trends in this area. Documents label evolution and considers standards and legal issues, as well as protection of the environment and sustainable food production. Features labels for a variety of different markets, including organic foods, and addresses social issues such as association of food quality with location.

CLIMEX - R. W. Sutherst - 1999-01
An accessible software package which allows individuals to develop models on the impact of climate in both plants and animals. CLIMEX is used in over 20 countries to examine the distribution of insects, plants, pathogens and vertebrates for a variety of purposes, including biogeography in quarantine, biological control strategies and impacts of changes in climate and climate variability. It can be used to compare climate at different locations, compare climate across a number of years and to match climates against pre-set criteria.

Postharvest Biology and Technology of Tropical and Subtropical Fruits - Elhadi M Yahia - 2011-09-19
Tropical and subtropical fruits are popular products, but are often highly perishable and need to be transported long distances for sale. The four volumes of Postharvest biology and technology of tropical fruits review essential aspects of postharvest biology, postharvest technologies, handling and processing technologies for both well-known and lesser-known fruits. Volume 1 contains chapters on general topics and issues, while Volumes 2, 3 and 4 contain chapters focused on individual fruits, organised alphabetically. Volume 1 provides an overview of key factors associated with the postharvest quality of tropical and subtropical fruits. Two introductory chapters cover the economic importance of these crops and their nutritional benefits. Chapters reviewing the postharvest biology of tropical and subtropical fruits and the impact of preharvest conditions, harvest circumstances and postharvest technologies on quality follow. Further authors review microbiological safety, the control of decay and quarantine pests and the role of biotechnology in the improvement of produce of this type. Two chapters on the processing of tropical and subtropical fruit complete the volume. With its distinguished editor and international team of contributors, Volume 1 of Postharvest biology and technology of tropical and subtropical fruits, along with the other volumes in the collection, will be an essential reference both for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area. Along with the other volumes in the collection, Volume 1 is an essential reference for professionals involved in the postharvest handling and processing of tropical and subtropical fruits and for academics and researchers working in the area. Focuses on fundamental issues of fruit physiology, quality, safety and handling relevant to all those in the tropical and subtropical fruits supply chain. Chapters include nutritional and health benefits, preharvest factors, food safety, and biotechnology and molecular biology.
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