

The Pathology of Food and Pasture Legumes



Edited by **D.J. Allen and J.M. Lenné**



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Pathology Of Food And Pasture Legumes

Anthony J. Biddle, Nigel Cattlin



Pathology Of Food And Pasture Legumes:

Cereals and Pulses Martin Brink, 2006 **The Pathology of Food and Pasture Legumes** D. J. Allen, Jillian M. Lenné, 1998 Legumes provide one quarter of the world's crop protein and the diseases which afflict them have a tremendous impact worldwide This important collection examines the diseases of the major legume crops Each chapter provides a review of a particular crop and its principal diseases The chapters include discussions of etiology biology symptoms epidemiology crop loss and control as well as extensive references The book opens with an overview of legumes and their role in agriculture and concludes with a discussion of new disease management techniques Written by leading experts from throughout the world it is an indispensable resource for plant pathologists **Plant Virology in Sub-Saharan Africa** Jacqueline d'A. Hughes, Babajide O. Odu, 2003 **Diseases in Legume Crops** Uday Chand Jha, Harsh Nayyar, Kamal Dev Sharma, Eric J Bishop von Wettberg, Prashant Singh, Kadambot H.M Siddique, 2023-11-26 The edited book covers all major and minor diseases in grain legumes chickpea pigeon pea lentil mung bean common bean groundnut and soybean and forages legumes including Medicago rice bean and faba bean and their control measures by using various breeding approaches Grain legumes are versatile nutritionally rich crops and are one of the important components of global food security However grain legumes are severely challenged by various major and emerging minor diseases causing serious limitations in grain yield and production Thus to minimize the negative impact of the growing yield loss caused by these diseases several approaches have been developed and embraced This book covers all the latest development in genetics breeding genomics and molecular biology tools for combating various major and minor emerging diseases in all the grain legumes from expert authors Chapters in this title contain all the relevant illustrations and statistical data detailing the present scenario and identifying the gap for meeting the future demand for sustaining global protein security by developing disease resistant cultivars This book is of interest to graduate and postgraduate students researchers and policymakers to understand the impacts of various diseases on yield loss in legume crops Approaches and Trends in Plant Disease Management M. Sharma, S.K. Gupta, 2014-05-01 The book on Approaches and Trends in Plant Disease Management takes stock of the present status of research in plant disease management technologies viz host resistance cultural practices biological molecular biotechnological approaches and chemical methods Besides these chapters on protected cultivation nematode problems and their management climate variables and their impact on plant diseases retrospect and prospect and rational use of fungicides have also been included **Genetic and Genomic Resources of Grain Legume Improvement** Ousmane Boukar, Ranjana Bhattacharjee, Christian Fatokun, P. Lava Kumar, Badara Gueye, 2013-07-18 Cowpea *Vigna unguiculata* an indigenous legume to sub Saharan Africa is mainly grown in the dry savanna areas as an intercrop with millets sorghum groundnut and maize Cowpea grains rich in protein are consumed in different forms in several parts of the tropics The average grain yield of cowpea in West Africa is approximately 492kg ha which is much lower than its potential

yields This low productivity is due to a host of diseases insects pests parasitic weeds drought poor soils and low plant population density in farmers fields Ex situ collection of over 15 000 accessions of cowpea and wild Vigna germplasm from different parts of the world were assembled in the IITA gene bank These genetic resources have been explored to identify new traits and to develop elite cowpea varieties Many cowpea varieties with high yield potential have been developed and adopted by the farmers Efforts are continuing to develop better performing varieties using conventional breeding procedures while molecular tools are being developed to facilitate progress in cowpea breeding

Pests, Diseases and Disorders of Peas and Beans Anthony J. Biddle, Nigel Cattlin, 2007-02-27 Anthony Biddle is among the most respected scientists in the pea and bean industry worldwide Nigel Cattlin has an international reputation for agricultural and horticultural photography of the highest order They have created between them a concise and practical guide to the protection of pea and bean crops with descriptions of symptoms linked th

Diseases of Crops in Eritrea Prof. Adugna Haile and Dr. G. Sethumadhava Rao, BOOK DESCRIPTION Title Diseases of Crops in Eritrea A Comprehensive Academic Handbook on Diseases of Agricultural Crops in Eritrea Introduction This book Diseases of Crops in Eritrea presents a comprehensive overview of the prevailing plant diseases in Eritrea s agricultural crops The State of Eritrea is located in North East Africa neighbouring with Ethiopia Sudan and Egypt As a nation boasting diverse agro climatic zones Eritrea s fertile soil supports an array of field crops horticultural crops and fruit trees However the agricultural ecosystem is confronted with challenges posed by various plant diseases which can have significant ramifications on crop productivity and quality This meticulously crafted book is designed with more than 250 images to illuminate the infections of crops and the importance of effective disease management Chapters and Contents This book is organized into six chapters each delving into specific aspects such as Introduction Diseases of Field Crops Horticultural Crops Fruit Orchards Spice and Ornamental Crops and the Disease Diagnosis 1 Introduction The initial chapter provides an in depth analysis of the current trends in crop production within Eritrea It explores the underlying causes of diseases including fungal bacterial nematode and viral infections The development and pathogenic cycles of these diseases are elucidated while symptomatology plays a pivotal role in facilitating disease identification 2 Diseases of Field Crops In the second chapter the focus is on over 104 diseases that afflict 16 staple food crops crucial to Eritrea s agricultural sector A detailed examination of these diseases enables readers to understand the threats they pose to crop yields and the overall food security of the nation 3 Diseases of Horticultural Crops Chapter three delves into 84 diseases affecting 12 commonly cultivated horticultural crops across Eritrea s agricultural regions By shedding light on these prevalent diseases the chapter aims to raise awareness among farmers and growers fostering effective disease management practices 4 Diseases of Fruit Orchards The fourth chapter zeroes in on 40 diseases encompassing fungal bacterial viral and nematode infections impacting six major fruit orchards in Eritrea The economic significance of these orchards coupled with their susceptibility to diseases underscores the importance of proper disease management strategies 5

Diseases of Spice and Ornamental Crops Chapter five focuses on seven diseases that affect three spice and ornamental crops By acknowledging the threats posed to these crops the chapter advocates for the implementation of preventive and control measures to safeguard their cultivation 6 Disease Diagnosis and techniques of disease identification Strategies The final chapter offers invaluable insights into disease diagnosis techniques equipping readers with the tools to accurately identify and combat plant diseases Furthermore every chapter expounds on distribution of the disease economic importance disease symptoms the causal agents disease development cycles and management strategies including cultural practices and Integrated Pest Management which are crucial for sustainable and environmentally friendly agriculture Additionally the prudent use of chemical control is discussed emphasizing adherence to recommended dosages to minimize undesirable effects on beneficial organisms human health and the environment Conclusion Diseases of Crops in Eritrea highlights the substantial threats that plant diseases pose to Eritrea s agricultural productivity However this academic and enlightening publication also serves as a beacon of hope promoting integrated disease management approaches that can mitigate these challenges and secure a prosperous horticultural industry for the nation s future The inclusion of a glossary and index further enhances the book s utility making it an indispensable resource for researchers agronomists horticulturists and anyone with a vested interest in Eritrea s agricultural well being

Diseases of Fruits and Vegetables S.A.M.H. Naqvi,2007-05-08 Among the Horticultural Crops Fruits and Vegetables FV are of primary portance as the key source of essential components in an adequate and balanced human diet FV have supported largely the daily food requirement of mankind since ages and even before man learned to grow cereal crops systematically Over the years growing FV has been the mainstay of rural economy and has emerged as an indispensable part of agriculture world over offering farmers a wide range of crops in varied topography and climate In certain parts of the world FV are the major dietary staple Apart from being a rich source of vitamins and minerals this sector also contributes significantly in economy of the region or the nation The increased income from per unit area of FV is far ahead and can not be compared with that of cereal crops A recent survey by the Economist revealed that the world population has creased by 90 % in the past 40 years while food production has increased only by 25 % per head With an additional 1 5 billion mouth to feed by 2020 farmers worldwide have to produce 39 % more Looking at the load of the future food requirement the global increased production of FV during last few years has absorbed the additional food requirement and accordingly the eating habits are also changing and shifting wards more consumption of these commodities worldwide

The Handbook of Mites of Economic Plants Vincenzo Vacante,2015-12-21 Mites pose a serious problem to plants worldwide attacking crops and spreading disease When mites damage crops of economic importance the impacts can be felt globally Mites are among the most diverse and successful of invertebrates with over 45 000 described species with many more thousands to be discovered They are responsible for a significant portion of the losses of crops for food fibre industry and other purposes and require expensive and often controversial pest control measures

Understanding these mites is vital for entomologists pest researchers agronomists and food producers Knowledge of mite pests helps to inform control strategies and optimize the production of economic plants and the agrarian economy This encyclopedia provides a thorough coverage of the mites and the problems they cause to crops yet it is easily searchable organised by mite species and subdivided into helpful headings It takes a worldwide view of the issue of mites injurious to economic plants describing mites prevalent in different regions and discussing control methods appropriate in different environments This book provides an encyclopaedic reference to the major mites described by family in terms of their internal and external morphology bio ecology and family systematics Methods of mite collection and laboratory study is described as well as species diagnostic characteristics worldwide distribution host plants identification by the type of damage they cause and control strategies including chemical and biological intervention and integrated pest management measures Mites of the following families are included Eriophyoidea Tarsonemidae Tuckerellidae Tenuipalpidae Tetranychidae Acaridae

Penthaleidae Mites of Economic Plants is an important resource for students of entomology and crop production and as a thorough reference guide for researchers and field workers involved with mites crop damage and food production **The Lentil** William Erskine,2009 This book provides a comprehensive review of current lentil research It contains 26 chapters covering topics on lentil global production supply and demand origin phylogeny domestication and spread plant morphology anatomy and growth habit agroecology and adaptation genetic resources collection characterization conservation and documentation genetic enhancement for yield and yield stability breeding for short season environments improvement in Developed Countries advances in molecular research breeding and management to minimize the effects of drought and improve water use efficiency soil nutrient management cropping systems biological nitrogen fixation and soil health improvement mechanization disease pest and weed management seed quality postharvest processing and value addition and food preparation and use The last chapter presents field based evidence of adoption of improved lentil cultivars from two cases Bangladesh and Ethiopia **Diseases of Field Crops Diagnosis and Management, 2-Volume Set** J. N.

Srivastava,A. K. Singh,2022-06-07 This new 2 volume set Diseases of Field Crops Diagnosis and Management helps to fill the need for research on plant diseases their effects how they spread and effective management measures to mitigate their harmful effects The volumes in this set showcase recent advances in molecular plant pathology and discuss appropriate diagnostic techniques for identification of causal agents and diseases providing the information necessary to establish management strategies The chapters in these two volumes include detailed description of symptoms causal organisms disease cycles epidemiology and management techniques of economically important diseases The volumes explore existing strategies and offer new methods that can be used in an integrated manner and with a comprehensive approach for the management of major diseases of the field crops Also taken into consideration is the impact of global climate change on the spread and severity of plant diseases *Innovative Approaches in Diagnosis and Management of Crop Diseases* R. K.

Singh, Gopala, 2021-09-28 This book is the second of the 3 volume Innovative Approaches in Diagnosis and Management of Crop Diseases which provides an abundance of new research and information on major diseases of various crops along with new techniques and technology for the detection of plant pathogens along with appropriate management strategies Divided into three volumes and with chapters written by renowned and expert scientists working in different areas of plant pathology the volumes cover important diseases of crops incited by bacteria fungi viruses viroids phytoplasma and nematodes It addresses these disease challenges to commercial field and horticultural crops and their management Innovative Approaches in Diagnosis and Management of Crop Diseases Volume 2 focuses on recent advances in diagnosis detection and management of diseases of specific crops such as cotton sesame rice wheat millet maize field pea and pigeonpea ginger and turmeric guava aonla and vegetable cruciferous crops Key features Presents diverse research of leading plant pathologists on detection diagnosis and management of crop diseases Shares innovative and emerging techniques for diagnosis and management of major plant diseases Covers a vast array of important crops and their diseases Volume 1 of this multi volume set focuses on the Mollicute class of bacteria It looks at the detection diagnosis and management of phytoplasma diseases and viroids CRISPR Cas9 genome editing in plants for virus resistance next generation sequencing technologies and more while Volume 3 reviews the advances in the uses of nanomolecules and biocontrol agents Diagnosis and management of biotic stresses play a pivotal role in efficient agriculture production and together these volumes of Innovative Approaches in Diagnosis and Management of Crop Diseases provide informative reviews of crucial research to effectively advance the detection diagnosis and management of crop diseases Achieving sustainable cultivation of grain legumes Volume 1 Dr

Shoba Sivasankar, Dr David Bergvinson, Dr Pooran Gaur, Dr Shiv Kumar Agrawal, Dr Steve Beebe, Dr Manuele Tamò, 2018-03-12 Reviews key developments in understanding crop physiology and genetic diversity and how they have informed advances in breeding new varieties Coverage of advances across the value chain for grain legume cultivation from variety selection to post harvest storage Discusses the latest trends in disease insect pest and weed management Control of Plant Virus Diseases Gad Loebenstein, Nikolaos Katis, 2014-10-31 The first review series in virology and published since 1953 Advances in Virus Research covers a diverse range of in depth reviews providing a valuable overview of the field The series of eclectic volumes are valuable resources to virologists microbiologists immunologists molecular biologists pathologists and plant researchers Volume 90 features articles on control of plant virus diseases Contributions from leading authorities Comprehensive reviews for general and specialist use First and longest running review series in virology

Genetics, Physiology and Cultivation of Moth Bean, Cowpea and Horse Gram Rakesh Pathak, 2023-05-26 This authored book gives insight into the morphology physiology genetics plant protection and biotechnology of three important arid legumes viz moth bean cowpea and horse gram There are seven chapters for each crop that provide in depth information on cultivation genetic improvement plant protection measures management of physiological and abiotic stresses along with

related genetic markers and biotechnological advances pertaining to these legumes. The chapters present research findings and brief reviews concerning the advances made in the improvement of these legumes. Legumes are utilized as pulses or grains aiding as an important source of protein for both human and animal consumption and also provide raw materials to the food and feed industries. They are also valuable for soil building improving soil quality and biological nitrogen fixation. Physiology and genetics provide an inimitable source of information on the distinct aspects of basic and applied legume research for general readers, students, academicians and researchers. Arid legumes are crops characterized by inherent features and capabilities to withstand adverse and harsh climatic conditions, significantly replenish the soil as well as provide protein and micronutrients. Adaptability to several stresses including drought makes them key to agriculture in areas receiving scanty rainfall. This comprehensive book disseminates significant information on the genetic diversity, cultivation, manipulation through mutagenic techniques, molecular biology and other breeding techniques. The book therefore is of importance to teachers, researchers and policymakers who are interested to acquire knowledge about moth bean, cowpea and horse gram. It also serves as an additional reading material for MSc and PhD students of agriculture and environmental sciences. The book is also useful to national and international agricultural scientists and policymakers.

Management of Fungal Pathogens in Pulses Bhim Pratap Singh, Garima Singh, Krishna Kumar, S. Chandra Nayak, N. Srinivasa, 2020-02-03

Pulses have played a major role in human diet and are considered a rich source of proteins. But the major constraints in achieving the yield of pulses are the occurrences of various diseases and pests. Hence there is a need to understand major fungal pathogens and their management strategies for sustainable agriculture. The major pulse crops in India and other Asian countries are bengal gram, pigeon pea, black gram, green gram, lentil and peas which are attacked by several pathogens that cause considerable crop damage. Bengal gram is affected mainly by wilt, *Fusarium oxysporum* f. sp. *ciceri* blight, *Mycosphaerella pinodes* and rust *Uromyces ciceris arietini*. The main diseases of pigeon pea are wilt, *Fusarium oxysporum* and *Phytophthora* stem blight, *Phytophthora drechsleri* f. sp. *cajani*, powdery mildew, *Erysiphe polygoni* and rust *Uromyces vicia fabae* are the most important diseases affecting the production of pea. This volume offers details like symptoms, distribution, pathogens associated, predisposing factors and epidemiology, sources of resistance and holistic management of diseases with particular reference to those of economic importance. Several minor diseases of lentil, green gram and of black gram are discussed with their detailed and updated information. This volume provides pooled information regarding the management of major fungal phytopathogens affecting pulses.

Vegetable oils, 2007

Allele Mining for Genomic Designing of Grain Legume Crops Chittaranjan Koley, C. Bharadwaj, Abhimanyu Sarkar, 2024-09-30

This book deliberates on the concept, strategies, tools and techniques of allele mining in grain legume crops and its application potential in genome elucidation and improvement including studying allele evolution, discovery of superior alleles, discerning new haplotypes, assessment of intra and interspecific similarity and also studies of gene expression and gene prediction. Available gene pools in global germplasm

collections specifically consisting of wild allied species and local landraces for almost all major crops have facilitated allele mining Development of advanced genomic techniques including PCR based allele priming and EcoTILLING based allele mining is being widely used now for mining superior alleles Allele s discovery has become more relevant now for employing molecular breeding to develop designed crop varieties matching consumer needs and also with genome plasticity to adapt to climate change scenarios All these concepts and strategies along with precise success stories are presented in the chapters dedicated to the major grain legume crops 1 The first book on the novel strategy of allele mining in grain legume crops for precise breeding 2 Presents genomic strategies for mining superior alleles underlying agronomic traits from genomic resources 3 Depicts case studies of PCR based allele priming and EcoTILLING based allele mining 4 Elaborates on gene discovery and gene prediction in major grain legume crops This book will be useful to students and faculties in various plant science disciplines including genetics genomics molecular breeding agronomy and bioinformatics to scientists in seed industries and also to policymakers and funding agencies interested in crop improvement *Bibliography of Agriculture*
,1976

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