

Durable Resistance in Crops

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Durable Resistance In Crops

David Pimentel, Ph.D.

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Durable Resistance in Crops F. Lamberti, J. M. Waller, N. A. Van der Graaff, 2012-12-06 Plant diseases and pests are a major constraint to agricultural production despite the various measures used to control them Chemical control although often e ective 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 sa e and at present most diseases and pests o staple ood crops are controlled through some form of resistance One of the basic problems in the use of resistance is its re quent 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 who 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 pro duced with a minimum of crop loss Durability of Disease Resistance Th. Jacobs, Jan E. Parlevliet, 2012-02-02 From February 24 28 1992 an international symposium on Durability of Disease Resistance was held at the International Agricultural Centre in Wageningen the Netherlands The symposium organized by the Department of Plant Breeding of Wageningen Agricultural University and the Centre for Plant Breeding and Repro duction Research CPRO DLO was part of the DGIS funded programme Durable Resistance in Developing Countries Without any form of prevention or protection nearly all crops will be seriously or even severely damaged by a range of pathogens In modern agriculture man has been able to control many if not most pathogens using i pesticides ii phyto sanitary methods such as control of seed and plant material in order to start a crop disease free iii agronomic measures such as crop rotation iv disease resis tance or combinations of these measures Over the years the use of pesticides has increased enormously and so did the pro blems associated with pesticide use such as environmental pollution and building of resistance and tolerance to these pesticides in the pathogens The use of resis tance too increased strongly over the years and here too problems arose **Durable Resistance in Crops** 1981 NATO ADVANCED STUDY INSTITUTE (Martina Franca, Italy),1983 Durable plant resistance and the genetics of host pathogen populations Parameters and targets of durable resistance Breeding for durable resistance and its practical application **Durable Resistance in Crops** ,1983-03-31 Breeding for Disease Resistance R. Johnson, G.J. Jellis, 2013-03-14 There is an increasing need for an understanding of the fundamental processes involved in the mechanisms by which disease resistances are introduced into crop plants This book provides a wide ranging coverage of the successes

and failures of the classical techniques it describes the advances towards modern technology and addresses the problems of pathogen variation Crop plants that are considered include cereals wheat barley rice potatoes vegetables and soft fruits

Encyclopedia of Pest Management David Pimentel, Ph.D., 2002-05-09 PRINT ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT a href http www tandfonline com action bookPricing doi 10 1081 E EPM target blankTaylor Francis Disease Resistance in Plants J. E. Van der Plank, 1984-06-28 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 **Aspects of Durable Resistance in Wheat to Yellow Rust** Daniel L. Danial, 1994 DS and IT increased moderately with increased Nitrogen level The 5-year Outlook on Science and Technology, 1981, 1981 Achieving durable disease resistance in cereals Professor Richard Oliver, 2021-10-19 Provides an authoritative review of the key developments in achieving durable disease resistance in cereal crops Comprehensive coverage of the major diseases that affect cereal crops Fusarium head blight Septoria tritici blotch tan spot Assesses the key challenges in breeding durable disease resistant cereals faced globally with dedicated chapters to the regional strategies established by North America North west Europe North Africa and West Asia **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 **Breeding for Durable** Resistance in Perennial Crops Food and Agriculture Organization of the United Nations, 1986 Strategies for disease resistance breeding in tropical perenial crops Bananas Musa cvs Cacao Theobroma cacao Coffees Coffee spp Oil palm Elaeis guineensis Rubber Hevea brasiliensis Sugarcane Saccharum cvs Handbook of Molecular Technologies in Crop **Disease Management** P. Vidhyasekaran, 2007-02-20 The most effective economic and environmentally sound approach of managing crop disease in today s world is by breeding crops resistant to disease The Handbook of Molecular Technologies in Crop Disease Management provides a top to bottom detailed view of crops from their molecular level to ways to manipulate a higher resistance to disease through breeding This comprehensive single source reference text covers the entire field of molecular breeding transgenic technology molecular plant pathology and molecular disease diagnostics presenting it all in clear understandable language The book contains an extensive bibliography and provides several tables and figures to clearly Disease Resistance in Plants J.E. Vanderplank, 2012-12-02 Disease Resistance in Plants Second reinforce crucial points 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 **Durability of Disease Resistance** T. Jacobs, 1993 Research works on durability of plant disease resistance Introgression Breeding in Cultivated Plants Jaime Prohens, Pietro

Gramazio, Mariola Plazas, Laura Toppino, 2021-11-24 **Stressed Ecosystems and Sustainable Agriculture** S. M. Virmani, 1995 Selected papers presented at the International Symposium on Agroclimatology and Sustainable Agriculture in Stressed Environments held at Hyderabad in India during 15 20 February 1993 Breeding Disease-Resistant Horticultural Crops Paul W. Bosland, Derek W. Barchenger, 2023-09-08 Breeding Disease Resistant Horticultural Crops is a complete and comprehensive resource for understanding the concept of breeding disease resistant crops especially horticultural crops Breeders of horticultural crops face distinct challenges that are different from agronomy row crops and these crops do not benefit from the vast body of literature available for agronomic crops This book covers the basic theories that underpin breeding for disease resistance and features extensive real world examples Both classical and biotechnical breeding methods are covered with an emphasis on how these methods are adapted for horticultural species Presented in a logical flow for the reader this book addresses historical perspectives and context as it relates to breeding for disease resistance It highlights treatments of resistance in the context of the phenotype the genotype the pathogen the environment interaction sources of resistance and the deployment of resistance to obtain a durable resistance Explores the definition of horticultural resistance how it is inherited and how resistance can be manipulated through breeding Highlights the importance of the interaction among crops pathogens and environmental elements Provides the latest references and insights as a foundation for further research Achieving Durable Disease Resistance in Cereals Prof Richard Oliver, 2021-08-24 This collection reviews advances in the key areas required to achieve durable disease resistance in cereal crops from advances in understanding pathogen biology epidemiology and plant pathogen interactions to identifying sources of resistance and advance techniques for breeding new varieties International Symposium on Tospoviruses and Thrips of Floral and Vegetable Crops C. G. Kuo, 1996

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