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Molecular Plant Pathology

Matthew Dickinson



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Molecular Plant Pathology M. Dickinson, 2008 Annual Plant Reviews, Molecular Plant Pathology James (Horticultural Research International Beynon, 2000-07 This volume addresses a subject of direct relevance to crop yield and therefore of major economic significance Directed equally at academic and industrial readers it covers three main areas of molecular plant pathology how pathogens cause disease the molecular signalling that takes place between plant and pathogen and the

genes that are important in the pathogen for causing disease how plants resist disease what is known about resistance genes through apoptosis to systemic acquired resistance and exploitation of molecular plant pathology in the biotechnological control of disease For academic and industrial researchers in plant pathology plant genetics plant molecular biology plant physiology and crop biotechnology

Molecular Plant Pathology Sarah Jane Gurr, M. J. McPherson, Dianna J. Bowles, The first of a 2 volume set which provides a comprehensive handbook for the applications of molecular as well as classical techniques to plant pathology Detailed protocols are included which address a range of investigations from plant pathogen isolation to localizing genes and their products

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Introduction to Plant Pathology Richard N. Strange, 2006-02-08 This invaluable resource introduces the eleven types of organism that cause plant disease ranging from higher plants to viroids and describes examples of cash and staple crop diseases that have caused human catastrophes Early chapters cover serological and molecular techniques for the diagnosis of plant pathogens epidemiology methods for estimating disease severity and its effect on crop yields and techniques for limiting inoculum Later chapters are concerned with colonisation of the plant and symptom development and the underlying biochemical and genetic factors that control these events Finally the control of plant disease using a variety of techniques including genetic modification is discussed Modern diagnostic techniques Epidemiology and the measurement of disease severity The biochemistry and molecular biology of plant disease Control through cultural biological genetic and molecular techniques A wealth of examples and applications including full colour photographs

Comprehensive and Molecular Phytopathology Yuri Dyakov, Vitaly Dzhavakhiya, Timo Korpela, 2007-01-09 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 and suppressors and plant and animal immunity This book enables the reader to understand how to promote or prevent disease development and allows them to systematize their own ideas of plant pathogen interactions Offers a more extensive scope of the problem as compared to other books in the market Presents data to allow consideration of host parasite relationships in dynamics and reveals interrelations between pathogenicity and resistance factors Discusses beneficial plant microbe interactions and practical aspects of molecular investigations of plant parasite relationships Compares historical study of common and specific features of plant immunity with animal immunity

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