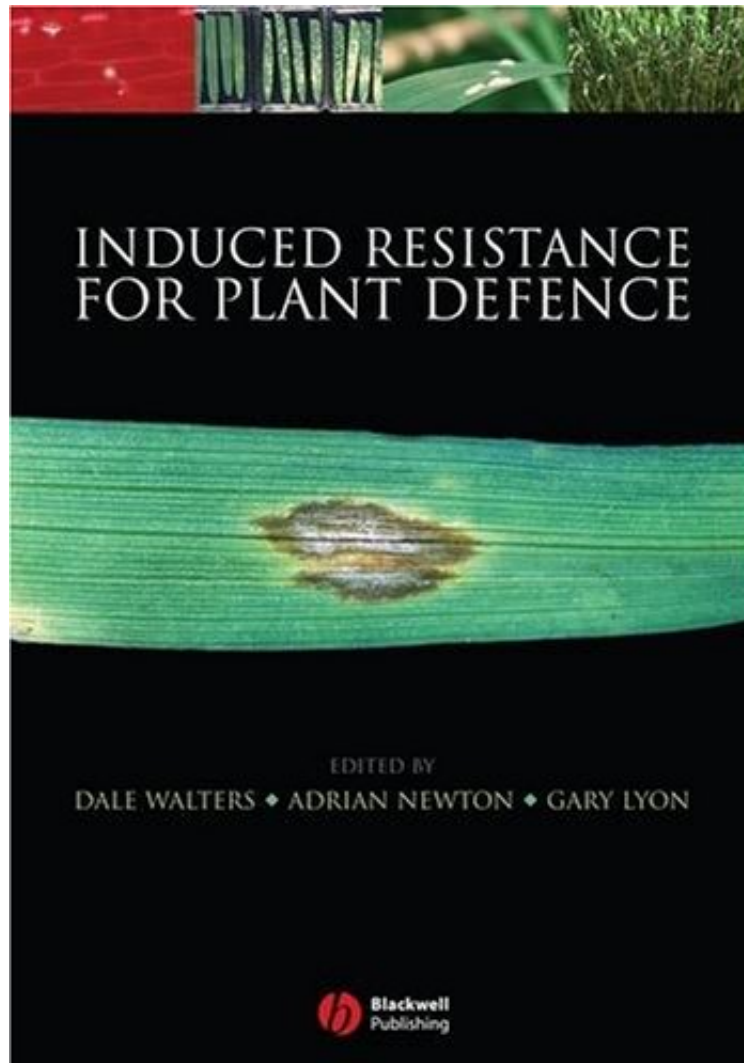


Induced Resistance for Plant Defence: A Sustainable Approach to Crop Protection

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0 of 0 people found the following review helpful. A book with novel plant defence tools By Eduardo Dvila The book edited by Drs. Walters, Newton and Lyon, presents an excellent review of plant defence for both pathogens and herbivorous arthropods. With biochemical and physiological perspective, the book take in account some topics from

substances that activates defences to the trade-offs of their use in crops, even with comercial perspective. Authors are very critical with respect to the assessment of different substances, their strength and weaknesses.If you want to know more about the relationships between plant pathology and plant physiology, "Induced Resistance for Plant Defence" is a monography that shall be included in your personal library!I.A. Eduardo Dvila, M.Sc., Ph.D. (c)

Plant diseases worldwide are responsible for billions of dollars worth of crop losses every year. With less agrochemicals being used and less new fungicides coming on the market due to environmental concerns, more effort is now being put into the use of genetic potential of plants for pathogen resistance and the development of induced or acquired resistance as an environmentally safe means of disease control. This comprehensive book examines in depth the development and exploitation of induced resistance. Chapters review current knowledge of the agents that can elicit induced resistance, genomics, signalling cascades, mechanisms of defence to pests and pathogens and molecular tools. Further chapters consider the topical application of inducers for disease control, microbial induction of pathogen resistance, transgenic approaches, pathogen population biology, trade offs associated with induced resistance and integration of induced resistance in crop protection. The book concludes with a consideration of socio-economic drivers determining the use of induced resistance, and the future of induced resistance in crop protection.

"It is certainly a book for libraries in universities and institues active in biological and agricultural research. This book will also interest individual scientists who are specifically working on induced resistance because of its extensive references" Plant Pathology, 2007 "The book is essential reading for those undertaking research related to the subject and of relevance to all involved in crop protection R D' Experimental Agriculture, 2008 "It is certainly a book for libraries in universities and institues active in biological and agricultural research. This book will also interest individual scientists who are specifically working on induced resistance because of its extensive references"Plant Pathology, 2007 "The book is essential reading for those undertaking research related to the subject and of relevance to all involved in crop protection R D' Experimental Agriculture, 2008From the Back Cover Induced Resistance for Plant Defence provides comprehensive details of the science, methodology and applications of this important subject, which now offers the prospect of broad spectrum, long lasting and potentially environmentally benign disease control in plants. The cutting edge contents of this extremely important book include coverage of cellular aspects of induced resistance, including signaling and defence mechanisms, the trade offs associated with the expression of induced resistance, work on integrating induced resistance into crop protection practice and induced resistance from a commercial perspective. With chapters written by internationally-respected contributors from around the world, each edited and integrated by three editors known for their work in this area, Induced Resistance for Plant Defence will be of great interest and use to plant pathologists, plant cell and molecular biologists, agricultural scientists, crop protection specialists and personnel working in the agrochemical industry. All libraries in universities and research establishments where biological and agricultural sciences are studied and taught should have copies of this important book on their shelves.