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Handbook of Molecular Technologies in Crop Disease Management

P. Vidhyasekaran

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Handbook of Molecular Technologies in Crop Disease Management P. Vidhyasekaran
The effective, environmentally sound approach to battling crop disease

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 precise diagnosis of crop diseases is essential for the selection of proper disease management strategies. The Handbook of Molecular Technologies in Crop Disease Management reviews all of the technologies that bolster precision diagnosis of numerous diseases, where they affect the plant, and the latest genetic engineering technology available to help develop plants with broad spectrum disease resistance. This handbook is perfect for teaching as well as being a detailed research resource in molecular plant pathology, genetic engineering, gene transcription, gene pyramiding, disease resistance breeding, disease diagnosis, microbial pesticides, and plant activators. It contains an extensive bibliography and provides several tables and figures to clearly reinforce crucial points.

Topics in Handbook of Molecular Technologies in Crop Disease Management include:

- disease diagnosis technologies
- diagnosis by culturing pathogen
- nucleic acid-based diagnosis technologies
- fungal diseases
- viral diseases
- bacterial diseases
- phytoplasma diseases
- viroid diseases
- molecular-assisted qualitative and quantitative resistance breeding and gene pyramiding technologies
- disease resistance genes
- dominant and recessive R genes
- types of molecular markers and their uses
- selection of genes
- transgenic plants
- transgenic technology
- plant defense activators
- precise application technology
- biologic inducers of transcription of defense genes and the application technology
- biosafety of genetically modified crops

The Handbook of Molecular Technologies in Crop Disease Management is an indispensable resource for

private sector research scientists, plant biologists, biotechnologists, molecular biologists, microbiologists, plant breeders, biochemists, plant pathologists, mycologists, bacteriologists, virologists, botanists, educators, and students.

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Inocencia Hensley:

The reason why? Because this Handbook of Molecular Technologies in Crop Disease Management is an unordinary book that the inside of the publication waiting for you to snap the idea but latter it will surprise you with the secret the idea inside. Reading this book alongside it was fantastic author who also write the book in such awesome way makes the content interior easier to understand, entertaining technique but still convey the meaning totally. So , it is good for you because of not hesitating having this any longer or you going to regret it. This unique book will give you a lot of gains than the other book get such as help improving your talent and your critical thinking way. So , still want to delay having that book? If I ended up you I will go to the reserve store hurriedly.

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