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Plant Genetic Engineering (Paperback)

By Donald Grierson

Springer, Netherlands, 2012. Paperback. Condition: New. Language: English. Brand new Book. Plant biotechnology offers important opportunities for agriculture, horticulture, and the food industry by generating new transgenic crop varieties with altered properties. This is likely to change farming practices, improve the quality of fresh and processed plant products, and reduce the impact of food production on the environment. The purpose of this series is to review the basic science that underpins plant biotechnology and to show how this knowledge is being used in directed plant breeding. It is intended for those involved in fundamental and applied research on transgenic plants in the academic and commercial sectors. The first volume deals with plant genes, how they work, and their transfer from one organism to another. Authors discuss the production and evaluation of the first generation of transgenic crops resistant to insects, viruses and herbicides, and consider aspects of gene regulation and targeting of their protein products to the correct cellular location. All the contributors are actively engaged in research in plant biotechnology and several are concerned directly with its commercial applications. Their chapters highlight the importance of a fundamental understanding of plant physiology, biochemistry, and cell and molecular biology for...



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