

The Molecular and Cellular Biology of the Potato (Biotechnology in Agriculture Series)



The potato represents both a crop of great economic importance and a model plant system for the application of biotechnology. Significant advances have occurred in both methodologies for and basic understanding of potato molecular genetics since the first edition of this book was published in 1990. This new volume reviews these advances and the practical application of biotechnology to cultivar improvement. Topics covered include: gene mapping, regulation and manipulation of carbohydrate metabolism; developmental and environmental regulation of gene expression; improvement of tools with improved agronomic and quality properties; field performance of transgenic potatoes; and safety issues associated with commercialization of transgenic potatoes. Written by experts for the USA, Europe and New Zealand, the book is aimed at advanced students and research workers in plant biotechnology and related plant science.

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