



In Vitro Plant Breeding

By Acram Taji, Prakash Kumar, Prakash Lakshmanan

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Create improved crops with these techniques for plant cell culture! This comprehensive book presents the basic concepts and applied techniques of plant cell and tissue culture. More and more, commercial plant breeding and development employs these methods to protect crops from weather, pests, and disease. Covering the history of in vitro breeding as well as emerging research trends, *In Vitro Plant Breeding* offers specific techniques for crop improvement and breeding. Designed as a text for undergraduate students, *In Vitro Plant Breeding* presents the theory of tissue culture as well as practical techniques. Its step-by-step instructions and clear illustrations facilitate learning and laboratory work. *In Vitro Plant Breeding* gives in-depth information and the latest research on the vital concepts and techniques of in vitro breeding, including:

- applications of plant tissue culture
- morphogenesis and organogenesis
- micropropagation
- producing haploid plants in vitro
- in vitro pollination and fertilization
- problems of embryo culture
- somatic hybridization
- protoplast technology
- selection of desirable traits
- cryopreservation and plant breeding
- micrografting

This helpful book is plentifully illustrated with examples, schematic descriptions, and tables to make the concepts clear and easy to learn. *In Vitro Plant Breeding* is an essential resource.

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