



Plant Cell and Tissue Culture (Methods in Molecular Biology)

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Plant Cell and Tissue Culture continues the high standards of Humana's Methods in Molecular Biology series. Its step-by-step approach (a hallmark of the series) is applied to a wide range of basic laboratory techniques and culture conditions appropriate to plant cells.

Because of the diversity of cell types, species, and culture methods, much of this volume is devoted to the culture of particular cell types and to the regeneration of these cells into whole plants. Special attention is also given to the genetic modification of plants, as well as to the economic significance of plant products.

Chapters cover a wide range of topics and techniques, including: • tissue culture media and selection • cryopreservation • callus culture techniques • organ culture • embryogenesis • batch culture • large-scale culture • hormonal control • fertilization techniques • gene transfer • cell immobilization • production systems • cell product purification • DNA expression • electrofusion of plant cells • mutant selection • mutagenesis techniques • automation • transfer of nuclei • protoplast culture • media analysis • micropropagation.

A detailed appendix lists the formulas for the most commonly employed plant cell media. Comprehensive, easy to follow, and a pleasure to use, Pollard and Walker's Plant Cell and Tissue Culture is an essential tool for everyone--at all levels of proficiency and experience--involved in plant culture.

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