

Plant Cell Culture

Essential Methods

Editors

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The ability to culture cells is fundamental for mass propagation and as a baseline for the genetic manipulation of plant nuclei and organelles. The introduction to *Plant Cell Culture: Essential Methods* provides a general background to plant cell culture, including basic principles, technologies and laboratory practices that underpin the more detailed techniques described in subsequent chapters. Whilst each chapter provides a background to the topic area and methodology, a crucial aspect is the provision of detailed protocols with emphasis on trouble shooting, describing common problems and detailed advice for their avoidance. *Plant Cell Culture: Essential Methods* provides the reader with a concise overview of these techniques, including micropropagation, mutagenesis, cryopreservation, genetic and plastid transformation and somatic cell technologies. This book is an essential addition to any plant science laboratory's bookshelf.

- Highlights the best and most up-to-date techniques for working on plant cell culture
- Explains clearly and precisely how to carry out selected techniques in addition to background information on the various approaches
- Chapters are written by leading international authorities in the field and cover both well-known and new, tried and tested, methods for working in plant cell culture
- An essential laboratory manual for students and early-career researchers

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