

Plant Tissue Culture: Techniques and Experiments

By Roberta H. Smith

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Plant Tissue Culture, Third Edition builds on the classroom tested, audience proven manual that has guided users through successful plant culturing A.tumefaciens mediated transformation, infusion technology, the latest information on media components and preparation, and regeneration and morphogenesis along with new exercises and diagrams provide current information and examples.

The included experiments demonstrate major concepts and can be conducted with a variety of plant material that are readily available throughout the year. This book provides a diverse learning experience and is appropriate for both university students and plant scientists.

- Provides new exercises demonstrating tobacco leaf infiltration to observe transient expression of proteins and subcellular location of the protein, and information on development of a customized protocol for protoplast isolation for other experimental systems
- Includes detailed drawings that complement both introductions and experiments
- Guides reader from lab setup to supplies, stock solution and media preparation, explant selection and disinfestations, and experimental observations and measurement
- Provides the latest techniques and media information, including A. tumefaciens mediated transformation and infusion technology
- Fully updated literature

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Editorial Review

Review

"The strength of this book lies in its descriptions of essential concepts, introduction to a wide range of major applications, and simple protocols to provide empirical demonstrations. ...this book would be a good teaching resource reference for instructors wishing to design their own laboratory demonstations." **--Phil Bregitzer, Germplasm Research Facility, in CROP SCIENCE SOCIETY OF AMERICA (June 2001)**

"...presents a structured programme using plant material that is available all year round. ...I was impressed with the gradual introduction of complex techniques and ideas. ...the book is well written...a useful contribution to teaching in plant tissue culture." **--Ronald A. de Fossard in TRENDS IN PLANT SCIENCE (February 2001)**

Praise for the First Edition: "This is an excellent laboratory manual. The student can learn many plant tissue culture techniques commonly used today." **--HORTSCIENCE (1995)**

"This book is an excellent overview of important tissue culture techniques. It is highly recommended for laboratory courses in tissue culture and would be useful in research laboratories where tissue culture techniques are required. Practical aspects of tissue culture are explained in a clear and concise way. This is essential for the novice and useful for experienced individuals planning a new course or laboratory. The manual is commended for providing information required for successful tissue culture at the fingertips of students." **--JOURNAL OF NATURAL RESOUCES AND LIFE SCIENCES EDUCATION (1993)**

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