Description: 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

Contents: Plant Tissue Culture: Techniques and Experiments

Third Edition

Roberta H. Smith

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