



Micropropagation Of Orchids

Thomas Griffiths



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Micropropagation of Orchids Joseph Arditti, 2009-01-26 This greatly expanded and updated edition of a classic reference work comprises two volumes offering a compendium of methods for multiplying orchids through micropropagation. A detailed collection of procedures and methods for multiplying orchids including organ tissue and cell culture techniques in vitro. Presents classic techniques that have been in the forefront of orchid propagation since they were first developed in 1949. Detailed procedures are appended with tables and complete recipes for a large number of culture media. Includes many illustrations, chemical formulas, historical vignettes, and seldom seen illustrations of people, orchids, apparatus, and tools. An excellent resource like its predecessor, both informative and captivating, and served as a reminder of why we go to such extremes in our quest to propagate these plants. American Orchid Society, 2009. In the sense of its universal value and importance, this Second Edition will undoubtedly be considered a classic if only because it will serve as a sole and invaluable resource on the subject. *Plant Science Bulletin* 2009.

Micropropagation of Orchids, 3 Volume Set Tim Wing Yam, Joseph Arditti, 2017-08-07 Divided into three volumes. *Micropropagation of Orchids* Third Edition retains the exhaustive list of micropropagation protocols for many genera and updates each section to include new and or revised information about Culture media and vessels, Techniques and procedures for both orchids which were previously cultured and for those which were not. Plant hormones and growth regulators, Media components, Methods for tissue decontamination, Historical information, Procedures for the cultivation for plantlets which have been removed from flasks, Sources of light and illumination methods. Written by two globally acknowledged experts in the field, the third edition of this definitive text on the micropropagation of orchids is a detailed and comprehensive collection of procedures and methods for multiplying orchids including organ tissue and cell culture techniques in vitro and is intended for researchers in plant science and propagation, professional and amateur orchid growers, and plant breeding professionals. Much of the general information about techniques and procedures can be applied to plants other than orchids.

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and procedures can be applied to plants other than orchids

Micropropagation of Orchids Through Leaf Segments S. P. Vij, 1992

Genome Size and Genetic Homogeneity of Regenerated Plants: Methods and Applications A. Mujib, 2023-09-13 This reference is a timely compilation of studies of genome size and genetic stability of regenerated plants. It presents 13 book chapters that cover recent advancements in CRISPR Cas based genome editing, the use of molecular markers to analyze somaclonal variation in tissue culture and genetic stability assessment in various plant species including medicinally valuable plants like Valeriana and Coffea. The book also highlights the role of flow cytometry in investigating polyploidy and provides valuable insights into genetic fidelity assessment of micropropagated woody plants and orchids. The contributors have shed light on the intra specific and inter specific genome and chromosome number variation with reference to gene duplication and DNA sequence loss. Molecular techniques for detecting ploidy levels and genetic homogeneity in regenerated plantlets are also discussed. Additional highlights of the book include brief guidelines for experimental protocols for flow cytometry and molecular markers coverage of a wide range of plants and supporting references. This is an excellent reference for biologists, geneticists and plant scientists exploring genetic homogeneity and genome size variation in diverse plant groups.

Micropropagation of Orchid Esmeralda Clarkei Mukti Ram Paudel, Bijaya Pant, 2012-08 The study of in vitro micropropagation has assumed enormous importance with the tremendous pace of progress in different disciplines of biological sciences. The tissue culture will play an important role in solving the problems of conventional methods for propagation, hybridization, embryo rescue, production of secondary metabolites, production of virus free plants and paternity disputes. This book helps the orchid grower to keep themselves abreast of the latest developments along with methods of mass propagation through various explants as well as conservation of endangered and rare orchids. This book also provides the technique for horticulturists those carries commercial purpose. This book will cater to the immediate needs of students, researcher, faculty members and horticultural industries.

Lindleyana, 1999 *American Orchid Society Bulletin* American Orchid Society, 1993

Orchids Sadanand N. Hegde, 2001 Contributed papers presented at the Festival with special reference to the species found in Northeastern region of India

Tissue culture as a plant production system for horticultural crops Richard H. Zimmerman, Robert J. Griesbach, Freddi A. Hammerschlag, R.H. Lawson, 2012-12-06 In 1980 a conference on tissue culture of fruit crops was held at Beltsville to summarize the current status of this technology and to stimulate interest in it among research scientists, students and commercial producers in the U S. Interest in that conference and the proceedings from it far exceeded the expectations of the organizing committee. Since that time micropropagation of fruit crops in the U S has increased significantly but still lags far behind applications to production of ornamental plants. Within the past two years a number of new laboratories have been established and some of the existing laboratories have expanded to a size far larger than any previously anticipated. Creation of new laboratories capable of producing more than 400 000 plants per week will test the ingenuity of laboratory managers and the skills of

marketing departments In recent years numerous symposia have been held on various aspects of biotechnology and genetic engineering Although micro propagation is the key to providing large numbers of genetically engineered plants it is a topic that has been relegated to a minor position or ignored completely at such meetings Accordingly the time seemed propitious for a conference devoted solely to all aspects of micropropagation as applicable to horticultural crops

Proceedings of the 14th World Orchid Conference Alec M. Pridgeon,1994 In one convenient and illustrated source this volume of the Proceedings of the 14th World Orchid Conference records the lectures the social events and the awards list of trophies medals and ribbons Coverage of the lectures ranges from historical trends to future breeding patterns from orchid floras and monographs to the world s botanic gardens from the newest developments in orchid science to specialist forums and poster sessions

Plant Tissue Culture Zahid Hameed Siddiqui,Khalid Rehman Hakeem,2025-09-23 Plants are sessile and constantly exposed to changing environmental conditions Seasonal cues govern plant growth development and reproduction In this era of climate change the environment is unstable and takes a toll on the productivity of plants This new book explores this unique area of plant tissue culture in relation to climate change showing how tissue culture techniques can be utilized to create tolerance to disease and stress increase growth and raise yield in plants This book discusses the use of plant tissue culture for producing superior material for planting and creating new elite varieties of different kinds of crops in response to changing climatic conditions It draws attention to the issues and dangers posed by climate change for plants and offers guidance for sustainable development utilizing tissue culture technology In addition it focuses on some fundamental ideas of plant tissue culture presents studies that address climate change and offers sustainable development alternatives The book looks at important topics such as the benefits of synthetic seed technology the impact of phytohormones and growth regulators on plant tissue culture the impact of supplementing culture medium with organic substances various plant tissue culture techniques and more This book will prove beneficial for plant biotechnologists environmentalists ecologists and scientists in enhancing their understanding of the complexities of climate change under in vitro conditions

High-tech and Micropropagation Y. P. S. Bajaj,1991 **Orchids** ,2009 **Studies on Micropropagation of Orchids-cymbidium and Cattleya Hybrids** ,1997 Orchid Propagation: From Laboratories to Greenhouses—Methods and Protocols Yung-I Lee,Edward Chee-Tak Yeung,2018-05-27 The orchid family is one of the largest families of flowering plants known for their beauty and economic importance This work provides information in key areas of research that are important to both scientists and commercial growers alike The main purposes of this book are to provide key practical areas of research such as germination micropropagation traditional and current techniques related to plant improvement document methods that ensure survival of plants from laboratories to greenhouses promote communication between scientists and growers so that their combined expertise on these areas will lead to the successful growth of orchids in their natural habitats or commercial greenhouses This book can serve as reference for laymen with an interest in orchid growing This book is divided into 5 parts

The first part emphasizes propagation methods using seeds and related techniques that are important to plant conservation and improvement. Successes in asymbiotic and symbiotic seed germination are keys to orchid conservation and their propagation. The second part summarizes micropropagation methods, common media, and newer methods of micropropagation such as the bioreactor culture procedures. The third part focuses on techniques related to the manipulation of explants in an in vitro environment. The fourth part covers cell biological methods and transformation techniques. Since the successes in a laboratory setting do not guarantee plant survival and propagation in greenhouses and in the natural environment, it discusses greenhouse propagation techniques that are essential to the survival of plants generated from a laboratory setting. The fifth part showcases recent successes on orchid propagation by documenting sample publications and how to present orchids in an artistic fashion for one's enjoyment.

JARQ. ,2003 *Australian Orchid Review* ,1993
Recent Advances in Horticultural Science in the Tropics ,1992 *Indian Journal of Experimental Biology* ,2005

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