



# Micropropagation Of Orchids

**Katrin Zwirgmaier**



## **Micropropagation Of Orchids:**

**Micropropagation of Orchids** Tim Wing Yam, Joseph Arditti, 2017-07-05 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

**Micropropagation of Orchids, 2 Volume Set** Joseph Arditti, 2008-05-12 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* 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

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*Micropropagation of Orchids Through Leaf Segments* S. P. Vij, 1992      **Plant Tissue Culture: An Introductory Text** Sant Saran Bhojwani, Prem Kumar Dantu, 2013-03-20 Plant tissue culture PTC is basic to all plant biotechnologies and is an exciting area of basic and applied sciences with considerable scope for further research PTC is also the best approach to demonstrate the totipotency of plant cells and to exploit it for numerous practical applications It offers technologies for crop improvement Haploid and Triploid production In Vitro Fertilization Hybrid Embryo Rescue Variant Selection clonal propagation Micropropagation virus elimination Shoot Tip Culture germplasm conservation production of industrial phytochemicals and regeneration of plants from genetically manipulated cells by recombinant DNA technology Genetic Engineering or cell fusion Somatic Hybridization and Cybridization Considerable work is being done to understand the physiology and genetics of in vitro embryogenesis and organogenesis using model systems especially Arabidopsis and carrot which is likely to enhance the efficiency of in vitro regeneration protocols All these aspects are covered extensively in the present book Since the first book on Plant Tissue Culture by Prof P R White in 1943 several volumes describing different aspects of PTC have been published Most of these are compilation of invited articles by different experts or proceedings of conferences More recently a number of books describing the Methods and Protocols for one or more techniques of PTC have been published which should serve as useful laboratory manuals The impetus for writing this book was to make available a complete and up to date text covering all basic and applied aspects of PTC for the students and early career researchers of plant sciences and plant agricultural biotechnology The book comprises of nineteen chapters profusely illustrated with self explanatory illustrations Most of the chapters include well tested protocols and relevant media compositions that should be helpful in conducting laboratory experiments For those interested in further details Suggested Further Reading is given at the end of each chapter and a Subject and Plant Index is provided at the end of the book      **Plant Tissue Culture: New Techniques and Application in Horticultural Species of Tropical Region** Duong Tan Nhut, Hoang Thanh Tung, Edward

Chee-Tak YEUNG,2022-04-05 This book presents latest work in the field of plant biotechnology regarding high efficiency micropropagation for commercial exploitation at low labor and equipment costs The book consists of 18 chapters on establishing advanced culture systems techniques as well as latest modification protocols on a variety of crops It also discusses new methods such as nylon film culture system light emitting diode and wireless light emitting diode system stem elongation wounding manipulation and shoot tip removal in vitro hydroponic and microponic culture system thin cell layer culture system etc Plant cell tissue has been developed more than fifty years ago Since then applications of in vitro plant propagation expanded rapidly all around the world and played as an important role in agricultural and horticultural systems This book will be of interest to teachers researchers scientists capacity builders and policymakers Also the book serves as additional reading material for undergraduate and graduate students of agriculture forestry ecology soil science and environmental sciences Plant Tissue Culture: Theory and Practice S.S. Bhojwani,M.K. Razdan,1996-11-08

Since the publication of the first edition in 1983 several new and exciting developments have taken place in the field of plant tissue culture which forms a major component of what is now called plant biotechnology The revised edition presents updated information on theoretical practical and applied aspects of plant tissue culture Each chapter has been thoroughly revised and as before is written in lucid language includes relevant media protocols and is profusely illustrated with self explanatory diagrams and original photographs This book includes three new chapters Variant selection Genetic Engineering and Production of Industrial Compounds and contains a complete bibliography and a glossary of terms commonly used in tissue culture literature This updated version proves to be an excellent text for undergraduate postgraduate students and teachers in various fields of plant sciences and a useful reference book for those interested in the application of any aspect of this aseptic technology *Advances in Orchid Biology, Biotechnology and Omics* Pragya Tiwari,Jen-Tsung Chen,2023-06-02

This book provides comprehensive insights into the existing and emerging trends in orchid biology based on the findings of omics high throughput technology biotechnology molecular breeding and genome editing approaches in orchids It illustrates molecular mechanisms of orchid mycorrhizal symbiosis according to the recent achievements of transcriptomics and bioinformatics studies which accelerate the progress of orchid research with the aid of their high throughput tools In this book a comprehensive view of orchid breeding was presented and it includes fundamental methods as well as advanced strategies through the combination of several technologies such as genetic engineering omics computational biology and genome editing These resulting knowledge and tools are highly beneficial for obtaining novel and fascinating varieties in the orchid market which is a competitive industry of global trade Another interesting content is the focus on the production of orchid bioactive compounds and their values in the field of ethnomedicine Their sources chiefly came from secondary metabolites and can be enriched through elicitors and produced more efficiently by improved tissue culture protocols and bioreactors In this edited collection we provided space for presenting an updated review of in vitro seed germination which is

a routine technology for well trained researchers but can give a complete demonstration for the potential audiences including growers and research beginners This book collects refined knowledge from a broad source of scientific literature by experts in the field of orchid research and surely is an adequate reference and textbook for students teachers and researchers It includes methods and applications of orchid breeding technology which would gain high attention from growers breeders and the related fields of agriculture *Tissue Culture* Henry Gilbert,1994 Orchid Propagation Edward Chee-Tak Yeung,Yung-I Lee,2024-07-05 This volume provides the first discussion of orchid protocorm and propagation detailing genome editing research and offers orchid conservation and ecology Chapters emphasize both the theory and practice of protocorm manipulation describing protocorm s biology and a range of related topics useful in studying protocorm Authoritative and cutting edge *Orchid Propagation The Biology and Biotechnology of the Protocorm* aims to be a useful practical guide to researches to help further their study in this field *Orchid Biology: Recent Trends & Challenges* Shaik Mahammad Khasim,Sadanand Nagesh Hegde,María Teresa González-Arno,Kanchit Thammasiri,2020-01-31 This book on *Orchid Biology Recent Trends Challenges* reviews the latest strategies for the preservation and conservation of orchid diversity and orchid germplasm It is an outcome of the Proceedings of the International Symposium on Biodiversity of Medicinal Plants Orchids Emerging Trends and Challenges held on 9 11 February 2018 at Acharya Nagarjuna University India In addition eminent orchid experts from around the globe were invited to contribute to this book All chapters were peer reviewed by international experts The Orchidaceae are one of the largest families of flowering plants comprising over 700 genera and 22 500 species and contributing roughly 40 percent of monocotyledons They also represent the second largest flowering plant family in India with 1 141 species in 166 genera and contribute roughly 10% of Indian flora Orchids comprise a unique group of plants and their flowers are among the most enchanting and exquisite creations of nature Phylogenetically and taxonomically the Orchidaceae are considered to be a highly evolved family among angiosperms They show incredible diversity in terms of the shape size and colour of their flowers and are of great commercial importance in floriculture markets around the globe Millions of cut flowers of Cymbidium Dendrobium Cattleya Paphiopedilum Phalaenopsis Vanda etc besides potted orchid plants are sold in Western Countries and thus the orchid cut flower industry has now become a multimillion dollar business in Europe the USA and South East Asia Besides their ornamental value orchids hold tremendous pharmaceutical potential Root tubers of *Habenaria edgeworthii* form an important component of the *Astavarga* group of drugs in Ayurvedic medicine It is an established fact that tubers of some terrestrial orchids have been used to treat diarrhoea dysentery intestinal disorders cough cold and tuberculosis Some orchids particularly those belonging to the genera *Aerides* *Arachnis* *Cattleya* *Cymbidium* *Dendrobium* *Epidendrum* *Oncidium* *Paphiopedilum* *Phalaenopsis* *Renanthera* *Vanda* etc have been extensively used to produce internationally acclaimed hybrids Yet paradoxically Indian orchids are victims of their own beauty and popularity As a result their natural populations have been declining rapidly because of unbridled commercial

exploitation in India and abroad In fact some orchids are now at the verge of extinction e g *Renanthera imschootiana* *Diplomeris hirsuta* *Paphiopedilum fairrieanum* *Cypripedium elegans* *Taeniophyllum andamanicum* etc Given the global importance of orchids in terms of securing human health and wealth this comprehensive compilation prepared by international experts is highly topical Its content is divided into five main sections I Cryopreservation Biotechnology II Orchid Biodiversity Conservation III Anatomy Physiology IV Pollination Biology and V Orchid Chemicals Bioactive Compounds All contributions were written by eminent orchid experts professors from around the world making the book a valuable reference guide for all researchers teachers orchid enthusiasts orchid growers and students of biotechnology botany pharmaceutical sciences and ethnomedicine It will be equally valuable for readers from the horticultural industry especially the orchid industry agricultural scientists and policymakers

**Orchid Biology** J. Arditti, Alec M. Pridgeon, 2013-04-17 A Personal Note I decided to initiate Orchid Biology Reviews and Perspectives in about 1972 and alone or with co authors started to write some of the chapters and the appendix for the volume in 1974 during a visit to the Bogor Botanical Gardens in Indonesia Professor H C D de Wit of Holland was also in Bogor at that time and when we discovered a joint interest in Rumphius he agreed to write a chapter about him I visited Bangkok on my way home from Bogor and while there spent time with Professor Thavorn Vajrabhaya He readily agreed to write a chapter The rest of the chapters were solicited by mail and I had the complete manuscript on my desk in 1975 With that in hand I started to look for a publisher Most of the publishers I contacted were not interested Fortunately Mr James Twigg at that time editor of Cornell University Press grew orchids and liked the idea He decided to publish Orchid Biology Reviews and Perspectives and volume I saw the light of day in 1977 I did not know if there would be a volume II but collected manuscripts for it anyway Fortunately volume I did well enough to justify a second book and the series was born It is still alive at present 20 years seven volumes and three publishers later I was in the first third of my career when volume I was published

**Commercial Scale Tissue Culture for Horticulture and Plantation Crops** Shubhpriya Gupta, Preeti Chaturvedi, 2022-06-16 This edited book is focusing on the novel and innovative procedures in tissue culture for large scale production of plantation and horticulture crops It is bringing out a comprehensive collection of information on commercial scale tissue culture with the objective of producing high quality disease free and uniform planting material Developing low cost commercial tissue culture can be one of the best possible way to attain the goal of sustainable agriculture Tissue culture provides a means for rapid clonal propagation of desired cultivars and a mechanism for somatic hybridization and in vitro selection of novel genotypes Application of plant tissue culture technology in horticulture and plantation crops provides an efficient method to improve the quality and nutrition of the crops This book includes a description of highly efficient low cost in vitro regeneration protocols of important plantation and horticulture crops with a detailed guideline to establish a commercial plant tissue culture facility including certification packaging and transportation of plantlets The book discusses somatic embryogenesis virus elimination genetic transformation protoplast

fusion haploid production coculture of endophytic fungi effects of light and ionizing radiation as well as the application of bioreactors This book is useful for a wide range of readers such as academicians students research scientists horticulturists agriculturists industrial entrepreneurs and agro industry employees *Horticultural Reviews, Volume 44* Jules Janick, 2019-02-28 Horticultural Reviews presents state of the art reviews on topics in horticultural science and technology covering both basic and applied research Topics covered include the horticulture of fruits vegetables nut crops and ornamentals These review articles written by world authorities bridge the gap between the specialized researcher and the broader community of horticultural scientists and teachers *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 *Biodiversity and Its Significance* Pramod Tandon, Y. P. Abrol, Suman Kumaria, 2007 Biodiversity and its Significance deals with the various fundamental aspects of biodiversity which have a direct and strong impact on human beings and their environment It comprises 20 articles contributed by renowned experts in their areas This pioneering book has been designed for the students and research scholars of Plant Sciences Agricultural Science and Bioinformatics *Plant Cell Culture Protocols* Víctor M. Loyola-Vargas, Felipe Vázquez-Flota, 2008-02-04 A comprehensive state of the art collection of the most frequently used techniques for plant cell and tissue culture Readily reproducible and extensively annotated the methods range from general methodologies such as culture induction growth and viability evaluation and contamination control to such highly specialized techniques as chloroplast transformation involving the laborious process of protoplast isolation and culture Most of the protocols are currently used in the research programs of the authors or represent important parts of business projects aimed at the generation of improved plant materials Two new appendices explain the principles for formulating culture media and the composition of the eight most commonly used media formulations and list more than 100 very useful internet sites

**Quick Bibliography Series** ,1976 **Orchid Biochemistry** Jen-Tsung Chen, 2021-08-18 Orchids are fascinating with

attractive flowers that sell in the markets and an increasing demand around the world. Additionally, some orchids are edible or scented and have long been used in preparations of traditional medicine. This book presents recent advances in orchid biochemistry, including original research articles and reviews. It provides in-depth insights into the biology of flower pigments, floral scent formation, bioactive compounds, pollination, and plant-microbial interaction, as well as the biotechnology of protocorm-like bodies in orchids. It reveals the secret of orchid biology using molecular tools, advanced biotechnology, multi-omics, and high-throughput technologies and offers a critical reference for the readers. This book explores the knowledge about species evolution using comparative transcriptomics, flower spot patterning involving the anthocyanin biosynthetic pathways, the regulation of flavonoid biosynthesis, which contributes to leaf color formation, gene regulation in the biosynthesis of secondary metabolites and bioactive compounds, the mechanism of pollination involving the biosynthesis of semiochemicals, gene expression patterns of volatile organic compounds, the symbiotic relationship between orchids and mycorrhizal fungi, techniques using induction, proliferation, and regeneration of protocorm-like bodies, and so on. In this book, important or model orchid species were studied, including *Anoectochilus roxburghii*, *Bletilla striata*, *Cymbidium sinense*, *Dendrobium officinale*, *Ophrys insectifera*, *Phalaenopsis*, *Panda*, *Pleione*, *limprichtii*.

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