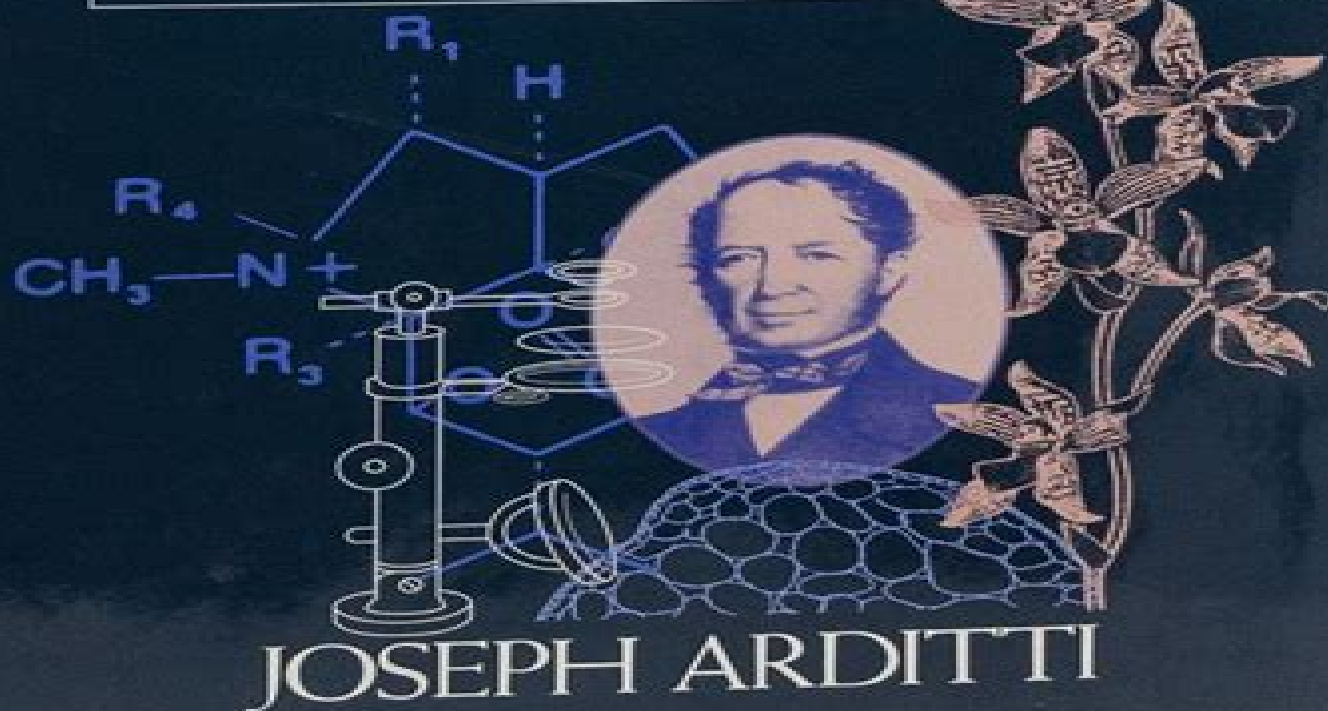


ARDITTI

FUNDAMENTALS OF ORCHID BIOLOGY

# FUNDAMENTALS OF ORCHID BIOLOGY



# Fundamentals Of Orchid Biology

**Joe Liggio, Ann Orto Liggio**



## **Fundamentals Of Orchid Biology:**

Fundamentals of Orchid Biology Joseph Arditti, 1992-10-07 Examines the biology history evolution and commercial uses of orchids All aspects of the orchid are explored including how they are classified and named the cytology physiology phytochemistry and morphology of orchids their anatomy mycorrhiza pollination embryology reproduction heredity and breeding and ecological characteristics Numerous illustrations throughout aid in comprehension **Orchid Biology VIII** T. Kull, J. Arditti, 2013-03-14 Note Not long after publication of *Orchid Biology Reviews and Perspectives* OB volume VII my co editor Dr Alec M Pridgeon informed me that the pressure of other duties especially the editing of *Genera Orchidacearum* GO will make it impossible for him to continue as co editor and eventually editor of the series Alec is an excellent orchid scientist and editor I was sorry to that he had to leave OB but glad that GO will be in his able hands The first volume of GO attests to his considerable abilities and I wish him much success in the future Editors of orchid publications are not the most common of species to use a botanical analogy and finding a replacement for Alec was not easy However I was fortunate that Dr Tiiu Kull agreed to become my co editor and eventually take over the series As is obvious from the Contributors section Dr Kull has extensive experience as both writer and editor My interactions with her while editing this volume have convinced me she is an excellent choice Scientifically she brings to OB an appreciation and understanding of northern terrestrial orchids a group which has not received as much attention as it deserves Another addition to OB is Dr Tim Wing Yam who agreed to become an associate editor Tim who holds a position at the Singapore Botanic Gardens will provide expertise on seed germination hybridization tissue culture species and conservation *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 Twiggs 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 **The Physiology of Tropical Orchids in Relation to the Industry** Choy Sin Hew, Jean W. H. Yong, 2004 Over the past ten years the orchid industry has been growing at a steady pace in South East Asia and East Asia In some Asian countries orchids have become an essential export item To maintain this

progress there is an urgent need for a book that will help the region's orchid growers in improving their cultivation and management skills and guide new students in understanding orchid physiology. This book provides a comprehensive description of tropical orchid physiology relevant to commercial growers, research workers and graduate students. An integrated and unifying theme of tropical orchid physiology with a clearly written factual text as well as illustrations is presented over nine chapters. Each chapter is designed to provide comprehensive and up to date information on a particular aspect of orchid physiology. This book complements the existing scientific literature available for improving orchid cultivation and setting a new research agenda especially in the tropics.

**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 *Astava* 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

### **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

### *The Pollination Biology of North American Orchids:*

*Volume 1* Charles L. Argue,2011-09-30 Recent studies have revealed remarkable complexity and diversity in orchid pollinator relationships These studies comprise a vast literature currently scattered in numerous often obscure journals and books The Pollination Biology of North American Orchids brings together for the first time a comprehensive treatment of this information for all native and introduced North American orchids found north of Mexico and Florida It provides detailed information on genetic compatibility breeding systems pollinators pollination mechanisms fruiting success and limiting factors for each species Distribution habitat and floral morphology are also summarized In addition detailed line drawings emphasize orchid reproductive organs and their adaptation to known pollinators This the first of two volumes furnishes a brief introduction to the general morphology of the orchid flower and the terminology used to describe orchid breeding

systems and reproductive strategies It treats the lady s slippers of genus *Cypripedium* subfamily Cypripedioideae and nine genera of the subfamily Orchidoideae including the diverse rein orchids of genus *Platanthera* The Pollination Biology of North American Orchids will be of interest to both regional and international audiences including Researchers and students in this field of study who are currently required to search through the scattered literature to obtain the information gathered here Researchers and students in related fields with an interest in the co evolution of plants and insects Conservation specialists who need to understand both the details of orchid reproduction and the identity of primary pollinators in order to properly manage the land for both Orchid breeders who require accurate and current information on orchid breeding systems General readers with an interest in orchid biology Charles Argue Ph D is a plant biologist at the University of Minnesota specializing in the study of pollen grains His articles have appeared in numerous journals including the American Journal of Botany International Journal of Plant Sciences formerly Botanical Gazette Botany formerly Canadian Journal of Botany Grana Pollen et Spores North American Native Orchid Journal The Native Orchid Conference Journal Fremontia and as chapters in a number of books

**Orchid Genomics and Developmental Biology** Jen-Tsung Chen,Katharina Nargar,2020-09-02 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact

**Orchid Genomics and Developmental Biology, Volume II** Jen-Tsung Chen,Katharina Nargar,2023-02-20

*Orchid Biology, Reviews and Perspectives* Joseph Arditti,1977

**Orchid Biotechnology Iv** Wen-huei Chen,Hong-hwa Chen,2021-03-23 Orchid Biotechnology IV presents a series of recent work on both basic and applied researches in biotechnology progress for *Phalaenopsis* *Oncidium* and *Erycina pusila* orchids These include breeding of *Phalaenopsis* orchids of black flower big white flower and small and floriferous flowers physiology for shipping and photosynthesis SSR markers and mitochondrial DNA markers virus detection and antiviral immunity embryogenesis and relationship with mycorrhiza symbiosis transposon and retrotransposon orchid genome and evolution regulation of orchid floral scent floral color modification and abiotic stress tolerance The diversity and specialization in orchid floral morphology have fascinated botanists and collectors for centuries The orchid industry has been growing substantially worldwide To advance the orchid industry enhancement of basic research as well as advanced biotechnology will provide a good platform to improve the flower quality and the breeding of new varieties This book provides a first hand and up to date information on orchid breeding orchid genome evolution detection of virus in nanotechnology molecular markers for cultivar identification for orchid lovers researchers and industry growers

**Plants on Plants - The Biology of Vascular Epiphytes** Gerhard

Zotz,2016-09-01 This book critically reviews advances in our understanding of the biology of vascular epiphytes since Andreas Schimper s 1888 seminal work It addresses all aspects of their biology from anatomy and physiology to ecology and evolution in the context of general biological principles By comparing epiphytes with non epiphytes throughout it offers a valuable resource for researchers in plant sciences and related disciplines A particular strength is the identification of research areas that have not received the attention they deserve with conservation being a case in point Scientists have tended to study pristine systems but global developments call for information on epiphytes in human disturbed systems and the response of epiphytes to global climate change     Wild Orchids of Texas Joe Liggio,Ann Orto Liggio,2010-07-22 Best of Show Award Society for Technical Communication International From the East Texas swamps and forests to the Edwards Plateau canyons and the Trans Pecos mountains Texas hosts a surprising number of native orchids Their exquisite beauty endears them to everyone from wildflower lovers to professional botanists and conservationists This beautifully illustrated book presents all 54 wild orchids of Texas The species descriptions that accompany Joe Liggio s lovely color photos discuss the plant s flowers blooming season pollinators typical habitats and range also shown by map including its distribution within and beyond Texas The species are grouped by genus and also listed by color county and habitat for easy reference In addition to the species accounts the authors offer a general natural history of Texas orchids that discusses such topics as pollination and reproduction special growing requirements and threats to orchids from loss of habitats and careless collecting They also describe the many orchid habitats in Texas and the species that grow in each This wide variety of information which has never before been collected in one volume for a general readership makes this book the essential guide to Texas wild orchids

**Genera Orchidacearum: Volume 2. Orchidoideae (Part 1)** Alec M. Pridgeon,Phillip J. Cribb,Mark W. Chase,Finn Rasmussen,1999 Orchids are among the most popular and widely collected of plant families with tropical species and hybrids being cultivated the world over The five volumes of Genera Orchidacearum will provide a complete robust classification of the orchids descriptions of individual species and cultivational information The series superbly illustrated with colour photographs and line drawings of all the genera will be an absolutely indispensable reference tool both for scientists and for orchid breeders and for collectors and enthusiasts This the second volume of Genera Orchidacearum covers the first 100 species of the Orchidaceae family     **Advances in Bioscience and Biotechnology Research** Dr. Sona A ,Dr. Priya Senan V,2021-08-06 Advances in Bioscience and Biotechnology Research is more inclined towards interdisciplinary studies Recent developments in the technologies have led to a better understanding of living systems and this has removed the demarcations between various disciplines of life sciences A new trend in life science incorporates Biotechnology and biological research involving a merger of diverse disciplines such as Isothermal Amplification Methods A Comprehensive Review on Bioactive and Therapeutic Potential of Indian Nutmeg Myristica fragrans Hoult Plant Metabolic Engineering Extension and Novel Pathway Engineering Plant Mucilages and their Potential Applications A Review Microbial Biofuels A Comprehensive view

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**Advances in Botanical Research**, 2008-08-08 Edited by Jean Claude Kader and Michel Delseny and supported by an international Editorial Board Advances in Botanical Research publishes in depth and up to date reviews on a wide range of topics in plant sciences Currently in its 47th volume the series features a wide range of reviews by recognized experts on all aspects of plant genetics biochemistry cell biology molecular biology physiology and ecology This eclectic volume features six reviews on cutting edge topics of interest to post graduates and researchers alike Multidisciplinary reviews written from a broad range of scientific perspectives For over 40 years series has enjoyed a reputation for excellence Contributors internationally recognized authorities in their respective fields

**Biodiversity, Bioengineering, and Biotechnology of Fungi** Chakravarthula Manoharachary, Harikesh Bahadur Singh, Sanjay Singh, Yash Pal Sharma, 2025-04-02 Biodiversity Bioengineering and Biotechnology of Fungi examines various fungi genera and their biotechnological applications The book covers the most common genera of fungi their structure their taxonomy the maintenance and organization of a permanent study collection with associated databases and their application in diverse sectors including industrial applications in the food environment bioenergy biorefinery and biopharma sectors Compiled by an international team of fungal biologists Biodiversity Bioengineering and Biotechnology of Fungi provides a wealth of information particularly on the diversity of fungal genera and their biotechnological contributions The book is a valuable resource for scientists researchers health practitioners nutritionists industry professionals advanced students and all those who wish to broaden their knowledge in the allied field Covers all fungal genera from molds and mushrooms to slime molds Describes the taxonomy of each group of fungi Explores the relationship between fungi and their host Discusses the potential biotechnological applications of different fungal genera

**Genera Orchidacearum Volume 3** Alec Pridgeon, 1999 Genera Orchidacearum is the first monograph of the world s orchid genera that reflects their long evolutionary history and reveals relationships based on genealogical descent and the most up to date DNA data

**Growth Patterns Underlying Plant Development** Daniel Kierzkowski, Edwige Moyroud, Takumi Higaki, Krzysztof Wabnick, Yuling Jiao, 2022-09-22

**Horticultural Reviews, Volume 44** Jules Janick, 2016-09-06 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



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