



Phylogeny And Classification Of The Orchid Family

Charles L. Argue



Phylogeny And Classification Of The Orchid Family:

Phylogeny and Classification of the Orchid Family Robert L. Dressler, 1993-04-29 A valuable contribution to the on going discussions on evolution within the Orchid family Dressler s work delimits several major natural groups and emphasises areas needing further study **An Atlas of Orchid Pollination** Nelis A. Van Der Cingel, 2001-06-01 This work follows on from the 1995 publication on European orchids The atlas is now completed with a second part containing data on the pollination of orchids of the continents of America Asia Africa including Madagascar and Australia including New Zealand The first part of the book is adapted from the general account of the previous publication and is extended with chapters on taxonomy and pollinators The general account deals with such things as the history evolution morphology chemistry and genetics of orchid pollination The second part gives a systematic account for each continent of all well known details The text is designed to have relevance for orchid lovers whether professional or amateur **The Family Orchidaceae in the Serra**

do Japi, São Paulo state, Brazil Emerson Ricardo Pansarin, Ludmila Mickeliunas Pansarin, 2011-03-15 This study presents a floristic survey of orchid species occurring in the Serra do Japi in S o Paulo southeastern Brazil The region studied is strategically placed in the transitional zone between interior semi deciduous mesophytic forests and the Atlantic forest presenting species from both formations and is characterized by semi deciduous mesophytic forests altitudinal forests and rocky outcrops In the Serra do Japi the orchid family is represented by 125 species distributed among 61 genera The most representative genus is Epidendrum followed by Oncidium and Habenaria Most of the species occur as epiphytes while 40 species are terrestrial 31 species are rupicolous two are hemi epiphytes and only one is myco heterotrophic Although the orchid diversity is high the region has been affected by anthropogenic disturbances making the preservation and integrated study of the diversity present in the Serra do Japi an urgent necessity with social economic and preservationist aspects

Anatomy of the Monocotyledons Volume X: Orchidaceae William Louis Stern, 2014-05-29 For many years orchids have been among the most popular of ornamental plants with thousands of species and hybrids cultivated worldwide for the diversity beauty and intricacy of their flowers This book is the eagerly awaited result of over 30 years of research into orchid anatomy by one of the world s leading authorities and is the first comprehensive publication on orchid anatomy since 1930 It describes the structure and relationships among the cells and tissues of leaves stems and roots and is organized systematically in line with the taxonomy expressed in the OUP Genera Orchidacearum Series The book is fully illustrated with over 100 photomicrographs and numerous original line drawings This latest addition to the Anatomy of the Monocotyledons Series is an essential reference text for orchid scientists and research students and will also be of interest and use to a broader audience of orchid enthusiasts **Genera Orchidacearum Volume 6** Alec M. Pridgeon, Phillip J.

Cribb, Mark W. Chase, Finn N. Rasmussen, 2014-02-06 For centuries orchids have been among the most popular of plant families with thousands of species and hybrids cultivated worldwide for the diversity beauty and intricacy of their flowers The

Genera Orchidacearum series represents a robust and natural classification of the orchids something that has eluded plant scientists and orchid enthusiasts for years The editors who are all distinguished orchid specialists incorporate a wealth of new DNA data into a truly phylogenetic classification identifying the areas and taxa that merit additional work To this end they have invited several international specialists to contribute in their particular areas of expertise Each volume provides comprehensive coverage of one or two orchid subfamilies and the series as a whole will be an indispensable reference tool for scientists orchid breeders and growers Orchidaceae is the largest monocotyledon family and perhaps the largest plant family in terms of number of species approximately 25 000 Although the fossil record is limited active molecular research in recent years has unravelled many of the complexities and phylogenetics of this cosmopolitan plant family This sixth and final volume treats 140 genera in tribes Dendrobieae and Vandae of the largest subfamily Epidendroideae including some of the showiest orchids often used in hybridizing Comprehensive treatments are provided for each genus which include complete nomenclature description distribution with map anatomy palynology cytogenetics phytochemistry phylogenetics pollination ecology and economic uses Cultivation notes are included for those genera known to be in hobbyist collections Genera are beautifully illustrated with line drawings and colour photographs An Addendum updates a few generic accounts published in past volumes A cumulative glossary list of generic synonyms with their equivalents and list of all series contributors round out this final volume in the series

The Pollination Biology of North American Orchids: Volume 2 Charles L.

Argue, 2011-09-21 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 second of two volumes treats the subfamily Orchidoideae with the tribe Cranichideae This is followed by examination of the seven North American tribes of subfamily Epidendroideae and the single North American tribe of subfamily Vanilloideae 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

Vanilla Eric Odoux, Michel Grisoni, 2010-07-20 Cultivated in an increasing number of countries vanilla is a universally appreciated flavor that is consumed worldwide However most users are unaware of the plant from which the product comes This book presents up to date reviews on the cultivation curing and uses of vanilla The latest scientific data provides information on genetic status resources pests diseases cultural practices biosynthesis of aromatic compounds and aroma development Leading contributors from around the world examine emergent countries for vanilla production including China India and Uganda The text also explores the relationship between fruit development anatomy and flavor quality

The Orchid Flora of Taiwan: A Collection of Line Drawings Tsan-Piao Lin, 2019-12-01 The history of written records of native orchids in Taiwan began in 1857 with a British botanist After more than 160 years of study by European Japanese and Taiwanese scholars and enthusiasts the list of native orchids increased to more than 470 species including natural hybrids and varieties The author exerted extensive efforts to include all known species in this work and arranged them based on the order of subfamilies Scientific names synonyms and relevant references are provided for each species Many of the species are provided with additional explanations in the note section The uniqueness of this book is the line drawing illustrations which emphasize the structure of the column In total 500 figures are presented to accompany the species descriptions These extensive line drawings were accumulated since 1971 and were mostly drawn by the author More than that this book also presents the gynostemium structure of more than 380 species including the stigma pollinium rostellum and column in high resolution color plates

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

New Perspectives on the Biology of Nectaries and Nectars Clay

Carter, Robert W. Thornburg, Massimo Nepi, 2019-08-27 The number of currently known described and accepted plant species is ca 374 000 of which approximately 295 000 79% are angiosperms Almost 90% of this huge number of flowering plants is pollinated by animals mostly insects via nectar mediated interactions Notably three fourths of the leading global crop plants produce nectar and are animal pollinated which is estimated to account for one third of human food resources Nectar can also be produced on tissues outside of flowers by so called extrafloral nectaries and commonly mediate interactions with body guard ants and other pugnacious insects that defend the plant from herbivores Extrafloral nectar is present in almost 4 000 plant species a majority of them in the angiosperms This brief summary on the occurrence of nectar in the plant kingdom is just to highlight that nectar has a fundamental role in two basal functions that allow the maintenance of our ecosystems sexual plant reproduction and protection of plants from herbivory Despite playing essential ecological and evolutionary functions our current knowledge about nectar is largely incomplete however new research directions and perspectives on nectaries and nectars have arisen in recent years In the last two decades there were only a few moments in which nectar was the main character in international meetings or in published books In 2002 the first and only international meeting Nectar

and nectary from biology to biotechnology dedicated exclusively to nectar and nectaries was held in Italy Montalcino Siena and in 2003 the proceedings were published in a special volume of Plant Systematics and Evolution 238 issue 1 4 In 2007 the book Nectar and Nectaries was published Springer with most of the contributions provided by authors that attended the meeting in Italy Another book dedicated to nectar was published in 2015 Nectar Production Chemical Composition and Benefits to Animals and Plants Nova Science Publishers covering aspects mainly related to nectar chemical composition and plant pollinator interactions Similarly symposia focused on nectar have been organized within the International Botanical Congress in 2011 and 2017 Considering that the last few years has yielded essential developments in the understanding of nectar biology we thought now is the moment to further stimulate research on this important topic This aim has been met through 18 papers published in our Research Topic New Perspectives on the Biology of Nectaries and Nectars with subjects spanning evolution and ecology to nectar chemistry and nectary structure

The Orchid Genome Fure-Chyi Chen, Shih-Wen Chin, 2021-04-20 This book provides information on genome complexity and evolution transcriptome analysis miRNome simple sequence repeats genome relationships molecular cytogenetics polyploidy induction and application flower and embryo development Orchids account for a great part of the worldwide floriculture trade both as cut flowers and as potted plants and are assessed to comprise around 10% of global fresh cut flower trade A better understanding of the basic botanical characteristics flower regulation molecular cytogenetics karyotypes and DNA content of important orchids will aid in the efficient development of new cultivars The book also describes the composition expression and function of various microRNAs and simple sequence repeats Information on their involvement in all aspects of plant growth and development will aid functional genomics studies

Orchid Biotechnology Hong-hwa Chen, Wen-huei Chen, 2007-07-27 The diversity and specialization in orchid floral morphology have fascinated botanists and collectors for centuries In the past 10 years the orchid industry has been growing substantially worldwide This interesting book focuses on the recent advances in orchid biotechnology research since the last 10 years in Taiwan 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 breeding of new varieties Important topics covered include the new knowledge of basic genome through floral morphogenesis floral ontology embryogenesis micropropagation to functional genomics such as EST virus induced gene silencing and genetic transformation

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 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 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

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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 pusilla 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

Understanding Orchids William Cullina, 2004 Featuring more than 200 color photographs Understanding Orchids provides readers with easy to follow instructions for the orchids they would like to grow

Handbook of Vanilla Science and Technology Daphna Havkin-Frenkel, Faith C. Belanger, 2018-07-06 An updated guide to the production science and uses of vanilla Vanilla is a flavor and fragrance in foods cosmetics pharmaceuticals and a wealth of other products Now in its second edition the Handbook of Vanilla Science and Technology provides a comprehensive and updated review of the science and technology used in these items production and supply Featuring contributions from an international range of experts this revised edition covers a multitude of topics including agricultural production global markets analytical methods sensory analysis food and fragrance applications organic farming and fair trade botanical diseases and novel uses The Handbook of Vanilla Science and Technology Second Edition is a vital resource for producers distributors and scientists involved in vanilla s growth and utilization and offers readers A guide to the cultivation extraction analysis DNA sequencing and marketing of vanilla Information on the production of vanilla in a range of countries such as Mexico Australia Costa Rica and India Guidelines on the quality control of vanilla beans and extracts Information on fair trade and the future of vanilla

Bioadhesion Stanislav N. Gorb, Ken Nakano, 2021-11-01

CRC World Dictionary of Palms Umberto Quattrocchi, 2017-08-03 From the Foreword Umberto Quattrocchi has brought us some amazing and useful works through the various dictionaries that he has compiled This time it is for two very important plant families the palms and the cycads that are synthesized here in these two volumes Each entry is fascinating not just for the botany and full nomenclature of the plant species but for all the associated uses folklore and interactions with other organisms These entries are fascinating glimpses of natural history Botanists conservationists ethnobotanists

anthropologists geographers bird watchers naturalists historians and those of many other disciplines will find these volumes a most valuable and useful resource It is the sort of book that will be in frequent use in my library Professor Sir Ghilleen Prance FRS VMH Former Director Royal Botanic Gardens Kew Following the same format as Umberto Quattrocchi's highly praised and well used previous works The CRC World Dictionary of Palms Common Names Scientific Names Eponyms Synonyms and Etymology brings together the vast and scattered literature on palms and cycads to provide better access to information on these economically important plants Each genus and species has a detailed morphological description and includes a list of synonyms and vernacular names in many languages Bibliographies accompany each entry which are comprehensive up to date and multi lingual The detailed information for every entry on habitats economic uses historical and biographical data botanical exploration and linguistics will be useful for any library involved with botany herbal medicine pharmacognosy medicinal and natural product chemistry ecology ethnobotany systematics general plant science agriculture or horticulture Umberto Quattrocchi is the author of the bestselling CRC World Dictionary of Plant Names winner of the prestigious Hanbury Botanical Garden Award His most recent multi volume work CRC World Dictionary of Medicinal and Poisonous Plants received strong praise as being an unparalleled starting place a tool of first resort for any thoughtful researcher Quattrocchi and CRC have delivered a dictionary like no other a learned finger pointing in the right direction John de la Parra Northeastern University Boston Massachusetts USA from Economic Botany Vol 68 2014

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