

- Tropical orchids: epiphytes—attached to trees but feeding independently on decayed plant and animal remains and rainwater
- Temperate orchids: commonly grow on the ground.
- Orchid fruits: 1-chambered capsules with many very small seeds.



- Inferior ovary—3 carpels
- After pollination the ovary becomes a "capsule" and it can take 2 to 18 months for it to ripen
- Orchids
- Other uses:
  - vanilla
  - ice cream
  - perfumes

## The Orchid Family (Orchidaceae)



Kindom: Plantae  
 Division: Magnoliophyta  
 Class: Liliopsida  
 Order: Asparagales  
 Family: Orchidaceae

<http://www.botanical-online.com/familiaorquidaceasangles.htm>  
<http://montana.plant-life.org/families/Orchidaceae.htm>  
<http://www.fact-index.com/o/or/orchidaceae.html>



- The biggest family of flowering plants
  - 735 genera representing 20,000-35,000 species
- Monocot

# The Orchid Family

**Pasquale De Marco**



## **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

**The Orchid Family** Lynne Martin, 1974 Introduces the orchid family explains the life cycle of both plant and flower and gives instructions for growing orchids at home

*Guide to Orchids Gardening* Vincent Bronson, 2021-05-18 The orchid family aka Orchidaceae is the largest flowering plant family on earth with about 30 000 species It is also one of the oldest plant families developing about 84 million years ago Being so old orchids have had plenty of time to develop into very specialized organisms It is specifically the orchid flower rather than the foliage that has developed in this specialized way While orchids look very exotic they are in their essence very primitive plants The vascular system in their leaves is not nearly as developed as more modern plants and that leads to foliage that is not always very impressive Their pollen is also very primitive a fine dust as fine as the spores of ferns that is concentrated in packets known as pollinia Because this pollen only comes in packets that cannot float freely through the air orchids are entirely dependent on a pollinator and over their eons of development they have modified their flowers to trick a wide variety of pollinators into transporting their pollen from one flower to another

**Guide to Orchids Gardening For Beginners** Dr Patrick Elliot, 2021-06-03 The orchid family aka Orchidaceae is the largest flowering plant family on earth with about 30 000 species It is also one of the oldest plant families developing about 84 million years ago Being so old orchids have had plenty of time to develop into very specialized organisms It is specifically the orchid flower rather than the foliage that has developed in this specialized way While orchids look very exotic they are in their essence very primitive plants The vascular system in their leaves is not nearly as developed as more modern plants and that leads to foliage that is not always very impressive Their pollen is also very primitive a fine dust as fine as the spores of ferns that is concentrated in packets known as pollinia Because this pollen only comes in packets that cannot float freely through the air orchids are entirely dependent on a pollinator and over their eons of development they have modified their flowers to trick a wide variety of pollinators into transporting their pollen from one flower to another

**Orchidaceae : the Orchid Family** Walt Maurus, 199? **The Iris Family** Peter Goldblatt, John C. Manning, 2008-01-01 Irises and their relatives are lily like plants related to the orchid and narcissus families with whom they share a propensity for large brightly colored attractive flowers Many have longlasting flowers Iris Gladiolus and Freesia are among the most important cut flower crops in the world The intricate flowers of the iris family are finely adapted for pollination by a variety of animals including hummingbirds sunbirds beetles butterflies moths wasps and bees This intimate connection between flower form and pollination biology reveals how the marvelous range of flower colors shapes and scents are vital to the lives of the species The diversity of Iridaceae is illustrated in more than 200 superb photographs supplemented by expert line drawings A lifetime of work by the world s expert on Iridaceae is distilled in

this definitive account Botanists ecologists naturalists and gardeners will find this an essential reference Origens da familia Orchidaceae ,1961 **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

*A Field Guide to Wildflowers* Roger Tory Peterson,Margaret McKenny,1968 This book is a guide to the wildflowers in the Northcentral and Eastern regions of the United States **Orchidaceae** Matthew C. Pace,John V. Freudenstein,Robert Francis Cox Naczi,2018 The New Manual of Vascular Plants of Northeastern United States and Adjacent Canada is a project by The New York Botanical Garden to fully revise and update the classic Manual by Gleason and Cronquist 1991 NYBG Press As family treatments are completed for the New Manual these are being made available as downloadable PDFs The chief goal of the New Manual is to enable identification of all plants growing spontaneously in a vast region portions or entirety of 22 states and 5 Canadian provinces The New Manual includes new tools for plant identification for about 5300 species amounting to 25% of the total botanical diversity of North America north of Mexico Approximately 20% of the species included are additions to the 1991 Gleason and Cronquist Manual In addition the New Manual provides information on morphology ecology phenology geographic distributions and conservation status for each species The New Manual will be indispensable to all those interested in North America s rich botanical resources including students conservationists wildlife managers educators and gardeners The Orchid Fancier's Appreciation Pasquale De Marco, In The Orchid Fancier s Appreciation we embark on a captivating journey into the enchanting world of orchids unveiling their multifaceted beauty and unraveling the secrets of their successful cultivation This comprehensive guide written with both the novice and seasoned orchid enthusiast in mind delves into the rich history and cultural significance of orchids tracing their journey from ancient civilizations to their current status as highly sought after horticultural treasures We explore the diverse habitats these remarkable plants call home from tropical rainforests to arid deserts highlighting their incredible adaptations and resilience Beyond their captivating blooms and aesthetic appeal orchids play a vital role in maintaining the delicate balance of our ecosystems As pollinators and seed dispersers they contribute to the survival of countless other plant and animal species We delve into the intricate relationships between orchids and their pollinators showcasing the remarkable co evolutionary strategies that have shaped their existence For those venturing into the realm of orchid cultivation we provide

detailed instructions and expert advice on every aspect of orchid care empowering you to nurture these delicate beauties successfully From selecting the right species for your environment to mastering the art of propagation we guide you through the process of creating a thriving orchid collection We also explore the fascinating world of orchid hybridization where enthusiasts create new and unique varieties with captivating colors forms and fragrances We delve into the techniques and challenges of orchid breeding providing insights into the meticulous process of selecting parental plants pollinating flowers and nurturing seedlings With its captivating blend of scientific knowledge practical advice and awe inspiring imagery The Orchid Fancier s Appreciation is an indispensable resource for orchid enthusiasts of all levels Whether you are a seasoned grower seeking to expand your knowledge or a newcomer eager to embark on the rewarding journey of orchid cultivation this comprehensive guide will be your trusted companion If you like this book write a review

**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

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

**Summary of Susan Orlean's The Orchid Thief** Everest Media, 2022-05-30T22:59:00Z Please note This is a companion version not the original book Sample Book Insights 1 Laroche is a tall skinny man with pale eyes and a sharp appearance He is extremely passionate and driven He has been working for the Seminole Tribe of Florida since he was twenty one years old setting up a plant nursery and an orchid propagation laboratory on the tribe s reservation in Hollywood Florida 2 Laroche is a very unusual person He is also the most moral amoral person I ve ever known He loves doing things the hard way especially if it means that he gets to do what he wants to do but also leaves everyone else wondering how he managed to get

away with it 3 I met John Laroche in Florida a few years ago He was arrested with rare orchids he had stolen out of a swamp called the Fakahatchee Strand State Preserve He explained that the plants were going to be cloned and sold to orchid collectors around the world 4 The trial took place in a courthouse south of Sanibel Laroche was charged with illegally removing more than two hundred rare orchid and bromeliad plants from the Fakahatchee Swamp He was also charged with criminal possession of endangered species and of illegally removing plant life from state property both of which are punishable by jail time and fines     **Vick's Family Magazine** ,1880     [The Orchid Genus Book](#) Patsy Webster,1992 ORCHID DIGEST June 1993 A long overdue roadmap This unassuming clearly written book may be the most valuable research tool you could find Webster has done us all a valuable service Robert L Dressler AMERICAN ORCHID SOCIETY BULLETIN July 1992 For those who wish to learn more about orchid genera from the hobbyist literature Webster s study guide should be very useful A reference book for everyone interested in orchid plants designed to locate key information more quickly It features Classification of 860 natural genera 544 hybrid genera showing the basic structure of the orchid family Concise discussion of each natural genus with major taxonomic changes geographic distribution unique features emphasizing most common features For each natural genus a bibliography drawn from 155 references including the Orchid Digest AOS Bulletin Orchid Review A wealth of information in a compact 190 page package convenient to carry to all orchid events Order from Orchid Educational Services P O Box 780701 San Antonio TX 78278     **Native Orchids of Minnesota** Welby Richmond Smith,2012 Revision of Orchids of Minnesota Welby R Smith illustrated by Vera Ming Wong Minneapolis University of Minnesota Press c1993     **Orchid Facts** Yves Earhart,AI,2025-02-18 Orchid Facts offers a fascinating exploration into the world of orchids a diverse plant family celebrated for its intricate beauty and complex biology Delving into orchid biology the book reveals how these plants have evolved unique adaptations to thrive in diverse environments from rainforest canopies to terrestrial habitats One intriguing aspect highlighted is the co evolutionary relationships between orchids and their pollinators which are essential for plant reproduction The book examines the key characteristics and classifications of orchids highlighting their ecological significance and the challenges they face due to habitat loss and climate change By presenting current research botanical studies and case studies Orchid Facts emphasizes the importance of conservation efforts to protect orchid populations worldwide The book progresses through an exploration of orchid anatomy and physiology pollination strategies and conservation challenges Through accessible language and clear explanations Orchid Facts explores the intricate pollination strategies employed by orchids from deceptive mimicry to mutualistic relationships with insects birds and other animals The book also touches upon horticultural aspects of orchid cultivation linking scientific knowledge to practical applications This blend of scientific rigor and accessibility makes it valuable to nature enthusiasts botany students and anyone interested in deepening their understanding of plant biology and ecology     **Nature Study** ,1903     *Orchids of Guatemala and Belize* Oakes Ames,Donovan Stewart Correll,1985-01-01 Detailed

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