



Orchid Flowers

THEIR POLLINATION AND EVOLUTION

By L. van der Pijl and Calaway H. Dodson

Orchid Flowers Their Pollination And Evolution

Various Authors



Orchid Flowers Their Pollination And Evolution:

Orchid Flowers Leendert van der Pijl, Calaway H. Dodson, Fairchild Tropical Garden, University of Miami, 1966

Orchid Flowers: Their Pollination and Evolution Leendert Pijl, Calaway H. Dodson, 1966 Orchidaceae **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 *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

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

Diversity and Evolutionary Biology of Tropical Flowers Peter K. Endress, 1996-07-25 A unique account of the structure biology and evolution of tropical flowering plants

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: Reviews and Perspectives X Tiiu Kull, J. Arditti, Sek Man Wong, 2009-01-21 As stated many times before the purpose of Orchid Biology Reviews and Perspectives OB is to present reviews on all aspects of orchids The aim is not to balance every volume but to make a balanced and wide ranging presentation of orchids in the series as a whole The chapters in this the last volume of the series range over a number of topics which were not covered before Singapore is justly famed for its orchids They can be seen on arrival or dep ture in its modern highly efficient and comfortable Changi Airport and on the way from it to town Vanda Miss Joaquim the first hybrid to come from Singapore became its National Flower This natural hybrid can be seen on its currency stamps and public and private decorations Many excellent breeders starting with Prof Eric Holttum who bred the first man made hybrid Spathoglottis Primrose produced numerous magnificent hybrids and won countless awards in Singapore and elsewhere These hybrids served to enrich the country s orchid mystique In the opening chapter of this volume Dr Teoh Eng Soon Western style Eng Soon Teoh himself a prize winning orchid breeder grower and author writes about some of the breeders who contributed to the Singapore orchid fame Prof Hans Fitting was one of the best known plant physiologists of his time As a young man he studied the effects of pollen on orchid flowers

Las Orquídeas de Puerto Rico Y Las Islas Vírgenes James D. Ackerman, 1992 Bilingual Spanish English pictorial essays for non specialists nature and orchid lovers The text describes each of the 143 species included in terms of its taxonomy natural history and distribution Readers with deeper interests will find definitions and additional information in the illustrated Introduction and Glossary

Biology of Floral Scent Natalia Dudareva, Eran Pichersky, 2006-03-27 As with nearly all living creatures humans have always been attracted and intrigued by floral scents Yet while we have been manufacturing perfumes for at least 5000 years to serve a myriad of religious sexual and medicinal purposes until very recently the limitation of our olfactory faculty has greatly hindered our capacity to clearly and ob

Coevolution of Animals and Plants Lawrence E. Gilbert, Peter H. Raven, 2014-11-06 It has long been recognized that plants and animals profoundly affect one another s characteristics during the course of evolution However the importance of coevolution as a dynamic process involving such diverse factors as chemical communication population structure and dynamics energetics and the evolution structure and functioning of ecosystems has been widely recognized for a comparatively short time Coevolution represents a point of view about the structure of nature that only began to be fully explored in the late twentieth century The papers presented here herald its emergence as an important and promising field of biological research Coevolution of Animals and Plants is the first book to focus on the dynamic aspects of animal plant coevolution It covers as broadly as possible all the ways in which plants interact with animals Thus it includes discussions of leaf feeding animals and their impact on plant evolution as well as of predator prey relationships involving the seeds of angiosperms Several papers deal with the most familiar aspect of mutualistic plant animal interactions pollination

relationships The interactions of orchids and bees ants and plants and butterflies and plants are discussed One article provides a fascinating example of more indirect relationships centered around the role of carotenoids which are produced by plants but play a fundamental part in the visual systems of both plants and animals Coevolution of Animals and Plants provides a general conceptual framework for studies on animal plant interaction The papers are written from a theoretical rather than a speculative standpoint stressing patterns that can be applied in a broader sense to relationships within ecosystems Contributors to the volume include Paul Feeny Miriam Rothschild Christopher Smith Brian Hocking Lawrence Gilbert Calaway Dodson Herbert Baker Bernd Heinrich Doyle McKey and Gordon Frankie

Psychology Library Editions: Comparative Psychology Various Authors,2022-07-30 Psychology Library Editions Comparative Psychology 16 Volume set brings together a number of titles which explore animal behaviour and learning some in isolation but mostly comparing it with human behaviour Research in this area looks at many different issues using various methods and examines species from insects to primates The series of previously out of print titles originally published between 1928 and 1997 with the majority from the 1970s and 1980s includes contributions from many highly respected authors

Hidden and Wild: An Integrated Study of European Wild Bees Giovanni Cilia,Rosa Ranalli,Laura Zavatta,Simone Flaminio,2025-02-27 In recent years pollination has become a very important research trend and wild bees in particular play a key role in the dynamics of plant pollination This book aims to develop a pathway through the main scientific disciplines related to wild bees Starting from a taxonomic and biogeographical context it explores key aspects of bee ecology and analyzes their various interactions with the environment The multidisciplinary theoretical and practical approach of this book is intended to support researchers professors stakeholders and non specialists who want to learn more about this topic In addition the chapters dedicated to citizen science will stimulate curiosity for a practical approach to wild bees

Elements of Insect Ecology S. S. Yazdani,M. L. Agarwal,1997 Ecology or the relationship of organisms to their environment has in recent years developed into a major biological discipline embracing within its field other disciplines as well In recent years tendency has been to emphasize the various aspects of ecology from the angle of ecosystem and much stress has been laid on the conservation of natural fauna and flora The relationship between man and insects dates back since time immemorial Insects are foes and friends and have always been the subject of interest to human beings The part played by the insects in any ecosystem the hazards caused by them and the interest in conserving the beneficial ones form the general theme of the work Various ecological aspects by taking insects as key animals has been discussed and it is hoped that the book would attract wide attention of students teachers researchers and persons involved in environmental as well as integrated pest management

Insects and Plants Pierre Jolivet,2023-07-07 Insects and plants whether or not they coevolved have intimate interrelationships This book concisely yet thoroughly describes these phenomena In one chapter the salient facts known about carnivorous plants are described In another ant and plant relationships are summarized as an introduction to this vast subject Pollination of great

interest to agriculturists and horticulturists is briefly explained without the complexities detailed in the massive literature on this topic Many other subjects are discussed such as the memory of adult butterflies which enables them to return to their host plants in the case of the polyphagous species The book is seeded with such thought provoking discussions as prostitution among the orchids and botanical indigestion in some plants *Orchids Flowers* L. Van der Pijl, 1969

Dictionary of Theoretical Concepts in Biology Keith E. Roe, Richard G. Frederick, 1981 1166 concepts primarily from English language articles books reviews and histories published through 1979 Includes plant and animal biology excludes for the most part human and behavioral biology Each entry gives concept and relevant authoritative citations Many cross references *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 00 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 Role of Flower Color in Angiosperm Evolution**

Montserrat Arista, Eduardo Narbona, Justen Whittall, Mani Shrestha, Maria Gabriela Gutierrez Camargo, 2021-11-05

Defensive (anti-herbivory) Coloration in Land Plants Simcha Lev-Yadun, 2016-10-20 This book presents visual plant defenses camouflage mimicry and aposematism via coloration morphology and even movement against herbivores It is mainly an ideological monograph a manifesto representing my current understanding on defensive plant coloration and related issues The book is not the final word in anything but rather the beginning of many things It aims to establish visual anti herbivory defense as an integral organ of botany or plant science as it is commonly called today I think that like in animals many types of plant coloration can be explained by selection associated with the sensory cognitive systems of herbivores and predators to reduce herbivory It is intended to intrigue and stimulate students of botany plant science and plant animal interactions for a very long time This book is tailored to a readership of biologists and naturalists of all kinds and levels and more specifically for botanists ecologists evolutionists and to those interested in plant animal interactions It is written from the point of view of a naturalist ecologist and evolutionary biologist that I hold considering natural selection as the main although not the only drive for evolution According to this perspective factors such as chance founder effects genetic drift and various stochastic processes that may and do influence characters found in specific genotypes are not comparable in their power and influence to the common outcomes of natural selection especially manifested when very many species belonging to different plant families with very different and separate evolutionary histories arrive at the same adaptation something that characterizes many of the visual patterns and proposed adaptations described and discussed in this book Many of the discussed visual defensive mechanisms are aimed at operating before the plants are damaged i e to be their first line of defense In this respect I think that the name of the book by Ruxton et al 2004 Avoiding Attack is an excellent phrase for the assembly of the best types of defensive tactics While discussing anti herbivory I do remember study and teach physiological developmental aspects of some of the discussed coloration patterns and I am fully aware of the simultaneous and diverse functions of many plant characters in addition to defense

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Table of Contents Orchid Flowers Their Pollination And Evolution

1. Understanding the eBook Orchid Flowers Their Pollination And Evolution
 - The Rise of Digital Reading Orchid Flowers Their Pollination And Evolution
 - Advantages of eBooks Over Traditional Books
2. Identifying Orchid Flowers Their Pollination And Evolution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Orchid Flowers Their Pollination And Evolution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Orchid Flowers Their Pollination And Evolution
 - Personalized Recommendations
 - Orchid Flowers Their Pollination And Evolution User Reviews and Ratings
 - Orchid Flowers Their Pollination And Evolution and Bestseller Lists
5. Accessing Orchid Flowers Their Pollination And Evolution Free and Paid eBooks
 - Orchid Flowers Their Pollination And Evolution Public Domain eBooks
 - Orchid Flowers Their Pollination And Evolution eBook Subscription Services
 - Orchid Flowers Their Pollination And Evolution Budget-Friendly Options
6. Navigating Orchid Flowers Their Pollination And Evolution eBook Formats

- ePub, PDF, MOBI, and More
- Orchid Flowers Their Pollination And Evolution Compatibility with Devices
- Orchid Flowers Their Pollination And Evolution Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Orchid Flowers Their Pollination And Evolution
 - Highlighting and Note-Taking Orchid Flowers Their Pollination And Evolution
 - Interactive Elements Orchid Flowers Their Pollination And Evolution
- 8. Staying Engaged with Orchid Flowers Their Pollination And Evolution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Orchid Flowers Their Pollination And Evolution
- 9. Balancing eBooks and Physical Books Orchid Flowers Their Pollination And Evolution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Orchid Flowers Their Pollination And Evolution
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Orchid Flowers Their Pollination And Evolution
 - Setting Reading Goals Orchid Flowers Their Pollination And Evolution
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Orchid Flowers Their Pollination And Evolution
 - Fact-Checking eBook Content of Orchid Flowers Their Pollination And Evolution
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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