

A detailed botanical illustration of a yellow orchid, likely a Cypripedium, with two large, rounded yellow flowers and several large, green, lanceolate leaves. The illustration is positioned on the right side of the book cover, partially overlapping the title text.

# DARWIN'S *Orchids*

Then & Now

*Edited by*  
Retha Edens-Meier and Peter Bernhardt

# Darwins Orchids Then And Now

**VM Jensen**



## **Darwin's Orchids Then And Now:**

**Darwin's Orchids** Retha Edens-Meier, Peter Bernhardt, 2014-11-05 A quorum of scientists offer reviews and results to celebrate the 150th anniversary of *On The Various Contrivances By Which British And Foreign Orchids Are Fertilised By Insects And On The Good Effects Of Intercrossing* 1862 Authors of the first ten chapters follow research on the pollination and breeding systems of the same orchid lineages that interested Darwin including temperate and tropical species Authors on the last two chapters provide information on the floral attractants and flowering systems of orchids using protocols and technologies unavailable during Darwin's lifetime

**Darwin's Orchids** Retha Edens-Meier, Peter Bernhardt, 2014-11-05 For biologists 2009 was an epochal year the bicentennial of Charles Darwin's birth and the 150th anniversary of the publication of a book now known simply as *The Origin of Species* But for many botanists Darwin's true legacy starts with the 1862 publication of another volume *On the Various Contrivances by Which British and Foreign Orchids Are Fertilised by Insects and on the Good Effects of Intercrossing or Fertilisation of Orchids* This slim but detailed book with the improbably long title was the first in a series of plant studies by Darwin that continues to serve as a global exemplar in the field of evolutionary botany In *Darwin's Orchids* an international group of orchid biologists unites to celebrate and explore the continuum that stretches from Darwin's groundbreaking orchid research to that of today *Mirroring the structure of Fertilisation of Orchids* Darwin's Orchids investigates flowers from Darwin's home in England through the southern hemisphere and on to North America and China as it seeks to address a set of questions first put forward by Darwin himself What pollinates this particular type of orchid How does its pollination mechanism work Will an orchid self pollinate or is an insect or other animal vector required And how has this orchid's lineage changed over time Diverse in their colors forms aromas and pollination schemes orchids have long been considered ideal models for the study of plant evolution and conservation Looking to the past present and future of botany Darwin's Orchids will be a vital addition to this tradition

**Orchid Jim** Endersby, 2016-11-07 The prize winning history of the orchid an engaging and enlightening account of one of the Earth's most mythologized botanical wonders Richard Conniff author of *House of Lost Worlds* At once delicate exotic and elegant orchids are beloved for their singular instantly recognizable beauty Found in nearly every climate the many species of orchid have had varying forms of significance in countless cultures over time Following the orchid's journey from Ancient Greek medicine to twentieth century detective novels science historian Jim Endersby explores the flower's four recurring themes science empire sex and death Orchids were a symbol of the exotic riches sought by 19th century Europeans in their plans for colonization They became subjects of scientific scrutiny for Charles Darwin who investigated their methods of cross pollination As Endersby shows orchids perhaps because of their extraordinarily diverse colors shapes and sizes have also bloomed repeatedly in films novels plays and poems from Shakespeare to science fiction Featuring many gorgeous illustrations from the collection of the Royal Botanic Gardens Kew *Orchid A Cultural History* was awarded the Watson Davis

and Helen Miles Davis Prize by the History of Science Society It is an enchanting tale not only for gardeners and plant collectors but anyone curious about the flower s obsessive hold on the imagination in history cinema literature and more

Extraordinary Orchids Sandra Knapp,2021-04-20 Perching on tropical trees partnering with fungi to reproduce or deceiving birds and amorous insects to promote pollination orchids fascinate In the exquisitely illustrated Extraordinary Orchids award winning botanist and writer Sandra Knapp tells the stories behind some of the bizarre lifestyles and interactions that scientists have uncovered among many species of the orchid family Orchids deserve such a visual celebration parts of the orchid flower have shapes unlike any other flowering plant and the sheer number of species means they have a seemingly endless ability to create ever more fantastical forms In fact many orchid common names refer to the shape shifting forms of their flowers the man orchids or monkey orchids are so called because of their resemblance to the primate form Orchids lend themselves to depiction and botanical artworks of them abound Who could resist painting or drawing such odd shapes Illustrated with stunning artwork much from the archives of the Natural History Museum in London and never before published Extraordinary Orchids includes depictions from celebrated botanical artists such as Ferdinand and Franz Bauer Arthur Harry Church and Sydney Parkinson revealing the weird and wonderful lives of this most diverse of plant families

**The Origin Then and Now** David N. Reznick,2011-10-17 An accessible modern guide to Darwin s masterwork Charles Darwin s Origin of Species is one of the most widely cited books in modern science Yet tackling this classic can be daunting for students and general readers alike because of Darwin s Victorian prose and the complexity and scope of his ideas The Origin Then and Now is a unique guide to Darwin s masterwork making it accessible to a much wider audience by deconstructing and reorganizing the Origin in a way that allows for a clear explanation of its key concepts The Origin is examined within the historical context in which it was written and modern examples are used to reveal how this work remains a relevant and living document for today In this eye opening and accessible guide David Reznick shows how many peculiarities of the Origin can be explained by the state of science in 1859 helping readers to grasp the true scope of Darwin s departure from the mainstream thinking of his day He reconciles Darwin s concept of species with our current concept which has advanced in important ways since Darwin first wrote the Origin and he demonstrates why Darwin s theory unifies the biological sciences under a single conceptual framework much as Newton did for physics Drawing liberally from the facsimile of the first edition of the Origin Reznick enables readers to follow along as Darwin develops his ideas The Origin Then and Now is an indispensable primer for anyone seeking to understand Darwin s Origin of Species and the ways it has shaped the modern study of evolution

**Darwin's Backyard: How Small Experiments Led to a Big Theory** James T. Costa,2017-09-05 If you ve ever fantasized walking and conversing with the great scientist on the subjects that consumed him and now wish to add the fullness of reality read this book Edward O Wilson author of Half Earth Our Planet s Fight for Life James T Costa takes readers on a journey from Darwin s childhood through his voyage on the HMS Beagle where his

ideas on evolution began and on to Down House his bustling home of forty years Using his garden and greenhouse the surrounding meadows and woodlands and even the cellar and hallways of his home turned field station Darwin tested ideas of his landmark theory of evolution through an astonishing array of experiments without using specialized equipment From those results he plumbed the laws of nature and drew evidence for the revolutionary arguments of *On the Origin of Species* and other watershed works This unique perspective introduces us to an enthusiastic correspondent collaborator and especially an incorrigible observer and experimenter And it includes eighteen experiments for home school or garden Finalist for the 2018 AAAS Subaru SB F Prizes for Excellence in Science Books **Darwin and the Art of Botany** James T. Costa, Bobbi Angell, 2023-10-17

Uncover Darwin's most important writings about plants with this important collection featuring expert interpretations and rare illustrations Charles Darwin is best known for his work on the evolution of animals but in fact a large part of his contribution to the natural sciences is focused on plants His observations are crucial to our modern understanding of everything from the amazing pollination process of orchids to the way that vines climb *Darwin and the Art of Botany* collects writings from six often overlooked texts devoted entirely to plants and pairs each excerpt with beautiful botanical art from the library at the Oak Spring Garden Foundation creating a gorgeously illustrated volume that never existed in Darwin's own lifetime and hasn't since Evolutionary botanist and science historian James Costa brings his expertise to each entry situating Darwin's words in the context of the knowledge and research of the time The result is a new way of visualizing Darwin's work and a greater understanding of the ways he's shaped our world **Rare and Exotic**

**Orchids** Joel L. Schiff, 2017-12-08 Comprising some 28 000 different species orchids are by far the largest flowering plant family on Earth Every year new species are being uncovered in the wild or created by humans and so this number has only continued to blossom This book is intended for those who wish to learn about the multifaceted nature of this amazing plant It covers many different aspects of orchid study from its cultural history to its evolutionary development and from its first discoveries to ongoing scientific research No matter your specialty or level of orchid expertise you can find in this book new and fascinating facts and stories that will make you gasp laugh and read on Through the many exotic and beautiful pictures permeating these pages you will come to know something of the infinite diversity of this plant family and at last learn why so many orchid growers and fanatics have embarked on this same endless path I was smitten with this book after reading the very first chapter on the history of Orchids There are plenty of interesting facts to charm your orchid friends and impress even the most studied researcher All in all a fabulous read that is well illustrated and with a reference section the likes of which I have never seen before with its vast and varied appendices on a slew of subjects If you are looking for a book that is engaging and educational with lots of good humor thrown in then this book is for you I know that I will treasure my copy for years to come Laura Newton American Orchid Society Awards Registrar and Accredited Judge ORCHIDS Magazine May 2018 Joel L Schiff brings to life not just the science surrounding orchids but the human process of recognizing cataloging and

appreciating them It s this approach combined with lovely close up color photos throughout which makes Rare and Exotic Orchids a recommendation not just for professionals or botany libraries but for general interest readers who will enjoy a highly accessible study that invites an in depth interest in orchids and their importance to human affairs Diane Donovan s Pick of the Month April 2018

**The Correspondence of Charles Darwin:** Charles Darwin,2017-10-12 This volume is part of the definitive edition of letters written by and to Charles Darwin the most celebrated naturalist of the nineteenth century Notes and appendixes put these fascinating and wide ranging letters in context making the letters accessible to both scholars and general readers Darwin depended on correspondence to collect data from all over the world and to discuss his emerging ideas with scientific colleagues many of whom he never met in person The letters are published chronologically volume 25 includes letters from 1877 the year in which Darwin published *Forms of Flowers* and with his son Francis carried out experiments on plant movement and bloom on plants Darwin was awarded an honorary LL D by Cambridge University and appeared in person to receive it The volume contains a number of appendixes including two on the albums of photograph sent to Darwin by his Dutch German and Austrian admirers

Floral Mimicry Steven D. Johnson,Florian P. Schiestl,2016-10-13 Mimicry is a classic example of adaptation through natural selection The traditional focus of mimicry research has been on defence in animals but there is now also a highly developed and rapidly growing body of research on floral mimicry in plants This has coincided with a revolution in genomic tools making it possible to explore which genetic and developmental processes underlie the sometimes astonishing changes that give rise to floral mimicry Being literally rooted to one spot plants have to cajole animals into acting as couriers for their pollen Floral mimicry encompasses a set of evolutionary strategies whereby plants imitate the food sources oviposition sites or mating partners of animals in order to exploit them as pollinators This first definitive book on floral mimicry discusses the functions of visual olfactory and tactile signals integrating them into a broader theory of organismal mimicry that will help guide future research in the field It addresses the fundamental question of whether the evolutionary and ecological principles that were developed for protective mimicry in animals can also be applied to floral mimicry in plants The book also deals with the functions of floral rewardlessness a condition which often serves as a precursor to the evolution of mimicry in plant lineages The authors pay particular attention to the increasing body of research on chemical cues their molecular basis their role in cognitive misclassification of flowers by pollinators and their implications for plant speciation Comprehensive in scope and conceptual in focus *Floral Mimicry* is primarily aimed at senior undergraduates graduate students and researchers in plant science and evolutionary biology

*The Reason for Flowers* Stephen Buchmann,2015-07-21 Fascinating Buchmann s knowledge and enthusiasm jump off the page The Wall Street Journal An extraordinarily good book Edward O Wilson The lively and definitive story of the beauty sexuality lore economics and ecology of the world s flowers written by a devoted scientist and illustrated with his stunning photographs Flowers and the fruits they often become feed clothe and inspire us Indeed they

have done so for all of human history Yet although we use flowers to celebrate important occasions to express love and to please our senses we know little about them their functions in nature or even how we depend on them In a volume that will delight gardeners naturalists cooks artists or anyone interested in history or culture pollination ecologist Stephen Buchmann serves as an expert guide through the fascinating world of flowers He explains how other species relate to flowers in ways crucial to the natural world Next he takes us on an engaging exploration of the roles flowers play in the production of food spices medicines and perfumes Flowering plants Buchmann then shows have long served as inspirational themes in art and literature Flowers have in fact so thoroughly seduced us that we now buy some ten million a day driving breeders to create infinite varieties and unusual blooms In this cultural and natural investigation of floral history Stephen Buchmann s masterful narrative illuminates just why there is indeed a reason for flowers

The pollination of cultivated plants: A compendium for practitioners Food and Agriculture Organization of the United Nations,2018-10-15 More than twenty years ago the Food and Agriculture Organization of the United Nations contributed to the growing recognition of the role of pollination in agricultural production with the publication of *The Pollination of Cultivated Plants in the Tropics* Since that time the appreciation of pollinators has grown alongside the realization that we stand to lose them But our knowledge and understanding of crop pollination pollinator biology and best management practices has also expanded over this time This volume is the first of two compendiums for practitioners sharing expert knowledge on all dimensions of crop pollination in both temperate and tropical zones The focus in this first volume is on applied crop and system specific pollination

**The Role of Flower Color in Angiosperm Evolution** Montserrat Arista,Eduardo Narbona,Justen Whittall,Mani Shrestha,Maria Gabriela Gutierrez Camargo,2021-11-05

**Insect Ecology: Concepts to Management** K. V. Hari Prasad,2022-05-20 This book presents comprehensive information on various aspects of ecology with special reference to insects to form a platform to design an ecologically sound insect pest management Insects are the most dominant and diverse group of living organism on earth Owing to their smaller size smaller space and food requirements more number of generation per unit time insects serves as one of the best subject matter for studies on various ecological aspects such as chemical ecology population dynamics predator parasitoid prey interactions etc The knowledge on various aspects of insect ecology helps in formulating an effective environmentally benign insect pest management This book is of interest and use to the post graduate students and researchers working on various aspects of insect ecology with special emphasis on population dynamics chemical ecology tri tropic interactions ecological engineering and Ecological Insect pest management

*Biodiversity and Conservation of the Yucatán Peninsula* Gerald Alexander Islebe,Sophie Calmé,Jorge L. León-Cortés,Birgit Schmook,2015-11-17 This book provides information relevant for the conservation of biodiversity and the sound management of the coastal and forest ecosystems of the Yucatan Peninsula in the face of global change Various aspects of the biodiversity of the Yucatan Peninsula are analyzed in an integrative manner including phenological ecophysiological ecological and

conservation aspects of plants and animals and their relationships with humans in coastal and forest ecosystems *Cryptic Species* Alexandre K. Monro, Simon J. Mayo, 2022-09-08 Cryptic species are organisms which look identical but which represent distinct evolutionary lineages They are an emerging trend in organismal biology across all groups from flatworms insects amphibians primates to vascular plants This book critically evaluates the phenomenon of cryptic species and demonstrates how they can play a valuable role in improving our understanding of evolution in particular of morphological stasis It also explores how the recognition of cryptic species is intrinsically linked to the so called species problem the lack of a unifying species concept in biology and suggests alternative approaches Bringing together a range of perspectives from practicing taxonomists the book presents case studies of cryptic species across a range of animal and plant groups It will be an invaluable text for all biologists interested in species and their delimitation definition and purpose including undergraduate and graduate students and researchers *The Theory of Evolution* Samuel M. Scheiner, David P. Mindell, 2020-04-03 Darwin's nineteenth century writings laid the foundations for modern studies of evolution and theoretical developments in the mid twentieth century fostered the Modern Synthesis Since that time a great deal of new biological knowledge has been generated including details of the genetic code lateral gene transfer and developmental constraints Our improved understanding of these and many other phenomena have been working their way into evolutionary theory changing it and improving its correspondence with evolution in nature And while the study of evolution is thriving both as a basic science to understand the world and in its applications in agriculture medicine and public health the broad scope of evolution operating across genes whole organisms clades and ecosystems presents a significant challenge for researchers seeking to integrate abundant new data and content into a general theory of evolution This book gives us that framework and synthesis for the twenty first century The Theory of Evolution presents a series of chapters by experts seeking this integration by addressing the current state of affairs across numerous fields within evolutionary biology ranging from biogeography to multilevel selection speciation and macroevolutionary theory By presenting current syntheses of evolution's theoretical foundations and their growth in light of new datasets and analyses this collection will enhance future research and understanding Integrative Promise Charles H. Pence, 2025-04-24 This book offers a new approach to the way in which biologists evaluate both the explanations they give of biological phenomena and those they would like to pursue Departing from current scholarship on explanation it draws out a cluster of virtues which unifies some biological explanations and in turn captures part of what makes the life sciences distinctive integrative promise With case studies drawn from a wide variety of historical and empirical domains such as big data biology model organisms and natural history as well as theoretical connections to a number of other areas in the philosophy of science including mechanism science and values and scientific modeling this work creates a new lens which helps us understand why contemporary life science takes the structure that it does It provides insight for readers in philosophy and history of science as well as biologists interested in the



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fertilised by insects Charles Darwin, 1877

Charles Darwin's Works: The various contrivances by which orchids are  
**The Orchid Digest**, 2022

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