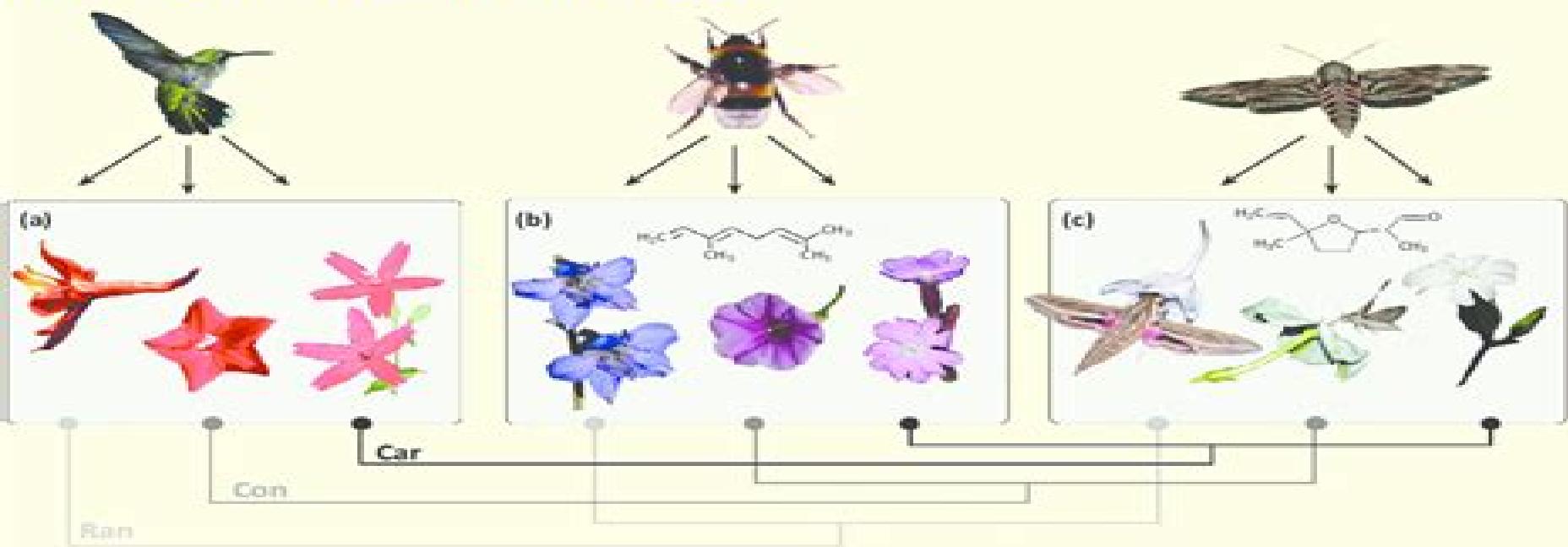
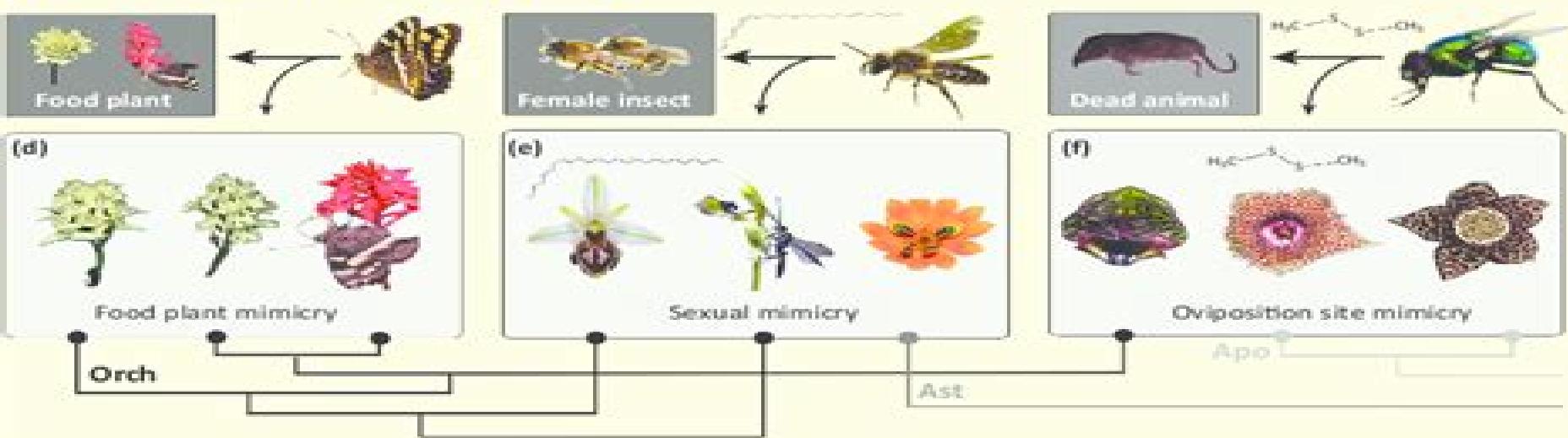


(A) Floral signal convergence: pollination syndromes



(B) Floral signal advergence: floral mimicry



Ecology And Evolution Of Flowers

J Elliott

Ecology And Evolution Of Flowers:

Ecology and Evolution of Flowers Lawrence D. Harder, Spencer C.H. Barrett, 2006-11-30 *Floral biology floral function sexual systems diversification* *A Physiological Approach to the Ecology and Evolution of Flowers* Adam Bryant Roddy, 2015 Flowers have long been considered one of the hallmarks of angiosperm evolution. They are morphologically complex structures that both promote efficient pollination and protect the developing embryo. When it was championed in 1793 by Christian Konrad Sprengel this view of the role of flowers in reproduction however was highly controversial how could a form so beautiful and pure as a flower ever be involved in something as vulgar as reproduction. Sprengel and his predecessor Josef Khlreuter are considered the founders of pollination biology and their work set the stage for that of Charles Darwin nearly a century later. Darwin saw the interaction between flowers and their pollinators as a prime example of the power of natural selection. This approach to studying the evolution of flowers of focusing on the biotic drivers of floral morphological change has dominated our understanding and interpretation of floral evolution. Yet new evidence suggests that extrinsic abiotic factors and the costs of producing and maintaining flowers may also have influenced the evolution of floral form. These non-pollinator agents of selection could represent another major shift in our understanding of how flowers have evolved. The series of studies presented in this dissertation takes one important resource water and examines how the requirements of providing water to flowers may influence their functioning and evolution. Two complementary approaches are used in these studies 1 physiological measurements of the dynamics of water use on a few species and 2 comparisons of hydraulic traits for diverse sets of species. Together these two approaches show the variability of flower water use the anatomical traits associated with the flux of water through flowers and how these physiological traits and by extension the water requirements of flowers vary among extant species. Together these studies support the conclusion that maintaining flower water balance has been an important factor influencing floral evolution and more generally angiosperm ecology. Three studies are presented that seek to measure using different approaches how the water flux to flowers and the hydraulic efficiency of flowers varies among species. Chapters 1-3 within species throughout floral development. Chapters 1 and 2 and diurnally with changing environmental conditions. Chapter 3 Using a new implementation of the heat ratio method for measuring sap flow Chapter 1 I found that sap flow velocities to flowers and inflorescences vary diurnally throughout floral development and among species and microhabitats. Such high variability suggested that a better approach to comparing the hydraulic architecture of flowers would be to measure the maximum efficiency of the floral hydraulic system. In Chapter 2 I quantified for a phylogenetically diverse set of species the maximum hydraulic conductance of whole flowers. This too was highly variable among species as were other hydraulic traits and the variation in all traits was driven by just two genera of early divergent angiosperm lineages. Variation in these traits highlighted the existence of two seemingly discrete hydraulic strategies one strategy is to maintain a high hydraulic conductance and continuously import water via the xylem while the

other strategy is to have a low hydraulic conductance with long water turnover times slow desiccation rates and presumably high hydraulic capacitance Investigating the tradeoffs among these strategies further Chapter 3 focused on characterizing the water relations of flowers of two *Calycanthus* species which had among the highest hydraulic conductances measured in Chapter 2 Consistent with my predictions high hydraulic capacitance in flowers mitigates the reliance on continuous xylem delivery of water As a result despite maintaining a high maximum hydraulic conductance Chapter 2 *Calycanthus* flowers hydraulically underperform most of the time reaching their maximum hydraulic conductance only when turgor loss is already inevitable The results from Chapters 2 and 3 together suggest that the monocots and eudicots compared to the ANITA grade and magnoliids developed thicker cuticles and reduced their stomatal abundances which together reduce rates of water loss from flowers and prolonged the time that these flowers can remain turgid without the import of new water Having characterized in Chapter 2 some of the anatomical traits that correlate with the hydraulic capacity of flowers I sought in Chapters 4 and 5 to examine for a large set of species how these traits have evolved and vary among species Specifically I asked three questions 1 Has there been coordinated evolution of water balance traits within flowers which would suggest that maintaining water balance has been an important component in floral evolution 2 Is there modularity in hydraulic trait evolution such that flower and leaf traits have evolved independently 3 Have hydraulic traits been under natural selection The results from these two chapters strongly support the conclusions that floral hydraulic traits are under selection that maintaining water balance has been an important component of floral trait evolution and that hydraulic traits have evolved independently in flowers and leaves These results show for the first time the importance of water balance in floral evolution and highlight that the physiological demands of and constraints on flowers may provide a strong counterbalance to selection by animal pollinators As yet studies of the physiology of flowers have received little attention and have been ignored in physiological trait databases As a result there has been no overarching theory describing or predicting patterns of variance in floral physiological traits This series of studies is a first attempt at providing such a framework for predicting how floral physiological traits may vary among species and how this may differ between reproductive and vegetative traits Although it focuses only on traits associated with the movement of water the results show that there may be consistent trait associations and syndromes among flowers regardless of morphology This should be a first step in understanding how flowers function physiologically and how their functioning may vary with a variety of ecological factors and over evolutionary timescales

Floral Biology David G. Lloyd, Spencer C.H. Barrett, 2012-12-06 Studies in floral biology are largely concerned with how flowers function to promote pollination and mating The role of pollination in governing mating patterns in plant populations inextricably links the evolution of pollination and mating systems Despite the close functional link between pollination and mating research conducted for most of this century on these two fundamental aspects of plant reproduction has taken quite separate courses This has resulted in surprisingly little cross fertilization between the fields of pollination biology on the one

hand and plant mating system studies on the other. The separation of the two areas has largely resulted from the different backgrounds and approaches adopted by workers in these fields. Most pollination studies have been ecological in nature with a strong emphasis on field research and until recently few workers considered how the mechanics of pollen dispersal might influence mating patterns and individual plant fitness. In contrast work on plant mating patterns has often been conducted in an ecological vacuum largely devoid of information on the environmental and demographic context in which mating occurs. Mating system research has been dominated by population genetic and theoretical perspectives with surprisingly little consideration given to the proximate ecological factors responsible for causing a particular pattern of mating to occur.

Pollination and Floral Ecology Pat Willmer, 2011-07-25. Pollination and Floral Ecology is a very comprehensive reference work to all aspects of pollination biology.

Pollination Timothy Walker, 2020-10-06. An enticing illustrated look at pollination, one of the most astonishing marvels of the natural world. Pollination is essential to the survival of most plants on Earth. Some plants rely on the wind to transport pollen from one flower to another. Others employ an array of ingenious strategies to attract and exploit pollinators, whether they be insects, birds, or mammals. This beautifully illustrated book provides an unprecedented look at the wonders of pollination biology, drawing on the latest science to explain the extraordinarily complex relationship between plant and pollinator and revealing why pollination is vital for healthy ecosystems and a healthy planet. Timothy Walker offers an engaging introduction to pollination biology and explores the many different tactics of plant reproduction. He shows how wind and water can be effective yet wildly unpredictable means of pollination and describes the intimate interactions of pollinating plants with bees and butterflies, beetles and birds, and lizards and bats. Walker explores how plants entice pollinators using scents, colors, and shapes and how plants rely on rewards as well as trickery to attract animals. He sheds light on the important role of pollination in ecology, evolution, and agriculture and discusses why habitat management, species recovery programs, and other conservation efforts are more critical now than ever. Featuring hundreds of color photos and illustrations, *Pollination* is suitable for undergraduate study and is an essential resource for naturalists, horticulturalists, and backyard gardeners.

The Reason for Flowers Stephen Buchmann, 2015. An exploration of the roles flowers play in the production of our foods, spices, medicines, and perfumes reveals their origins.

Myriad shapes, colors, textures, and scents, bizarre sex lives, and how humans and the natural world relate and depend upon them.

Cognitive Ecology of Pollination Lars Chittka, James D. Thomson, 2001-05-28. Important breakthroughs have recently been made in our understanding of the cognitive and sensory abilities of pollinators. How pollinators perceive, memorise, and react to floral signals and rewards, how they work, flowers move among inflorescences and transport pollen. These new findings have obvious implications for the evolution of floral display and diversity, but most existing publications are scattered across a wide range of journals in very different research traditions. This book brings together for the first time outstanding scholars from many different fields of pollination biology, integrating the work of neuroethologists and evolutionary ecologists.

to present a multi disciplinary approach Aimed at graduates and researchers of behavioural and pollination ecology plant evolutionary biology and neuroethology it will also be a useful source of information for anyone interested in a modern view of cognitive and sensory ecology pollination and floral evolution *From Meristems to Floral Diversity: Developmental Options and Constraints* Regine Claßen-Bockhoff,Louis Philippe Ronse De Craene,Annette Becker,2021-05-31

Understanding Flowers and Flowering Beverley Glover,2007-11-08 Evolution induction of flowering variation **Birds and Flowers** Jeff Ollerton,2024-02-13 Hummingbirds and the balletic ways in which they feed on flowers are familiar to most people But they belong to just one of at least 74 bird families that are known or suspected to be pollinators Relationships between plants and birds first emerged at least 50 million years ago and over time have influenced the evolution of both groups This groundbreaking book is the first to deal with pollinating birds in all their diversity involving almost 1 390 avian species interacting with tens of thousands of different plants It rescues them from being novelties of natural history and explores these interactions in all their evolutionary and ecological significance Pollinating birds have intricate lives that are often highly dependent on flowers and the plants themselves are at the whim of birds for their reproduction This makes them important players within many ecosystems including tropical rainforests dry grasslands temperate woodlands coastal mangroves and oceanic islands Bird flower relationships are threatened by disease habitat destruction and climate change Some of the birds are already extinct Yet there are optimistic stories to be told about conservation and restoration projects that reveal the commitment of people to preserving these vital ecological connections In addition as a source of cultural inspiration with a history stretching back millennia pollinating birds and their flowers are part of the ongoing relationship between humanity and the rest of nature **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 [The Natural History of Pollination \(Collins New Naturalist Library, Book 83\)](#) Michael Proctor,Peter Yeo,Andrew Lack,2012-11-29 This is a brand new fully updated edition of the natural history classic first published in the New Naturalist series in 1973 as The Pollination of Flowers This edition is exclusive to newnaturalists.com

Plant-Pollinator Interactions Nickolas Merritt

Waser,Jeff Ollerton,2006-01-15 Publisher description [Arnoldia ,2010](#) **Flower Ecology** Louis Herman Pammel,2025-05-22 Flower Ecology by Louis Herman Pammel first published in 1898 delves into the intricate relationships between flowering plants and their environment This classic botanical study explores various aspects of floral adaptation pollination mechanisms and the ecological roles flowers play in diverse ecosystems Pammel TM s work provides detailed observations and analyses of flower structures pollination strategies employed by different plant species and the co evolutionary relationships between flowers and their pollinators This book offers valuable insights into the complex world of plant animal interactions and the ecological significance of flowering plants It remains a relevant resource for students researchers and anyone interested in understanding the fascinating world of flower ecology This work has been selected by

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Whispering the Secrets of Language: An Mental Journey through **Ecology And Evolution Of Flowers**

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