



Cognitive Ecology of Pollination

Animal Behavior and
Floral Evolution

Edited by Lars Chittka & James D. Thomson

CAMBRIDGE

Cognitive Ecology Of Pollination Animal Behaviour And Floral Evolution

Natalia Dudareva, Eran Pichersky



Cognitive Ecology Of Pollination Animal Behaviour And Floral Evolution:

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

Cognitive Ecology of Pollination Lars Chittka, James D. Thomson, 2005

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

Solitary bees Ted Benton, 2017-03-08 In Britain and Ireland there are about ten times more species of solitary bee than bumblebee and honeybee combined yet the solitary bees tend to be ignored and we know much less about them They are a fascinating attractive and diverse group that can be found easily in a wide range of habitats both urban and rural and they are important as pollinators Solitary bees provides an introduction to the natural history ecology and conservation of solitary bees together with an easy to use key to genera Chapters cover Diversity and recognition Bee lives Cuckoos in the nest Bees and flowers The conservation of solitary bees Approaches to practical work Keys to the genera of bees of the British Isles Females and Males and References and further reading

Evolution of Plant-Pollinator Relationships Sébastien Patiny, 2011-12-08 What are the evolutionary mechanisms and ecological implications behind a pollinator choosing its favourite flower Sixty five million years of evolution has created the complex and integrated system which we see today and understanding the interactions involved is key to environmental sustainability Examining pollination relationships from an evolutionary perspective this book covers both botanical and zoological aspects It addresses the puzzling question of co speciation and co evolution and the complexity of the relationships between plant and pollinator the development of which is examined through the fossil record Additional chapters are dedicated to the evolution of floral displays and signalling as well as their role in pollination syndromes and the building of pollination networks Wide ranging in its coverage it outlines current knowledge and complex emerging topics demonstrating how advances in research methods are applied to pollination biology

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

Flowers and Honeybees Christopher Ketcham, 2020-05-11 Can we discover morality in nature Flowers and Honeybees extends the considerable scientific knowledge of flowers and honeybees through a philosophical discussion of the origins of morality in nature Flowering plants and honeybees form a social group where each requires the other They do not intentionally harm each other both reason and they do not compete for commonly required resources They also could not be more different Flowering plants are rooted in the ground and have no brains Mobile honeybees can communicate the location of flower resources to other workers We can learn from a million year old social relationship how morality can be constructed and maintained over time Advances in the Study of Behavior Peter J.B. Slater, Jay S. Rosenblatt, Charles T.

Snowdon, Timothy J. Roper, H. Jane Brockmann, Marc Naguib, 2005-01-30 The aim of Advances in the Study of Behavior is to serve scientists engaged in the study of animal behavior including psychologists neuroscientists biologists ethologists pharmacologists endocrinologists ecologists and geneticists Articles in the series present critical reviews of significant research programs with theoretical syntheses reformulation of persistent problems and or highlighting new and exciting research concepts Volume 34 is purely eclectic and illustrates the breadth of behavior research Contents include sexual conflict among insects the evolution of sexual cannibalism odor processing and activity patterns in honeybees hormone secretion in vertebrates bird song organization food transfer in primates game theory approaches to mutualism as well as neural mechanisms of learning and memory and how these change during infant development **Advances in Insect**

Chemical Ecology Ring T. Cardé, Jocelyn G. Millar, 2004-06-21 Chemical signals mediate all aspects of insects' lives and their ecological interactions The discipline of chemical ecology seeks to unravel these interactions by identifying and defining the chemicals involved and documenting how perception of these chemical mediators modifies behaviour and ultimately reproductive success Chapters in this 2004 volume consider how plants use chemicals to defend themselves from insect herbivores the complexity of floral odors that mediate insect pollination tritrophic interactions of plants herbivores and parasitoids and the chemical cues that parasitoids use to find their herbivore hosts the semiochemically mediated behaviours of mites pheromone communication in spiders and cockroaches the ecological dependency of tiger moths on the chemistry of their host plants and the selective forces that shape the pheromone communication channel of moths The volume presents descriptions of the chemicals involved the effects of semiochemically mediated interactions on reproductive success and the evolutionary pathways that have shaped the chemical ecology of arthropods Insect Pheromone Biochemistry and

Molecular Biology Gary Blomquist, 2003-10-08 A valuable new reference on insect behavior this exceptional new text delves

into the primary sensory communication system used by most insects their sense of smell Insect Pheromone Biochemistry and Molecular Biology covers how insects produce pheromones and how they detect pheromones and plant volatiles Since insects rely on pheromone detection for both feeding and breeding a better understanding of insect olfaction and pheromone biosynthesis could help curb the behavior of pests without the use of harmful pesticides and even help to reduce the socio economic impacts associated to human insect interactions Covers biochemistry and molecular biology of insect pheromone production Explains pheromone production in moths beetles flies and social insects Describes pheromone and plant volatile reception

Wildflowers of the High Sierra and John Muir Trail Elizabeth Wenk, 2015-03-10 This new book by Sierra expert Elizabeth Wenk includes photos and descriptions of approximately 300 species of wildflowers and flowering shrubs in the High Sierra Focused on areas above 8 000 feet in elevation from Yosemite south through the Whitney Region by restricting the collection of species to higher elevations the book can include all commonly seen species and nearly half of all higher elevation species in a compact guide Make plant identification more approachable to hikers this book differentiates between species using features easily identifiable to a non botanist Descriptions include the species common and scientific names family name growth form flowering time elevation range region specific locations on popular trails and how to identify the plant using color petal number leaf shape height and more

Evolutionary Ecology of Plant Reproductive Strategies Thomas Johannes de Jong, Petrus Gerardus Leonardus Klinkhamer, 2005-10-13 This book places the wealth of data that have been collected on plants into the unifying framework of game theory

Plant secondary metabolic regulation and engineering Fangyuan Zhang, Xueqing Fu, Yongliang Liu, 2023-05-17

Tropical Biology and Conservation Management - Volume V Kleber Del Claro, Paulo S. Oliveira, Victor Rico-Gray, 2009-05-11 This Encyclopedia of Tropical Biology and Conservation Management is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Tropical environments cover the most part of still preserved natural areas of the Earth The greatest biodiversity as in terms of animals and plants as microorganisms is placed in these hot and rainy ecosystems spread up and below the Equator line Additionally the most part of food products with vegetal or animal origin that sustain nowadays human beings is direct or undirected dependent of tropical productivity Biodiversity should be looked at and evaluated not only in terms of numbers of species but also in terms of the diversity of interactions among distinct organisms that it maintains In this sense the complexity of web structure in tropical systems is a promise of future to nature preservation on Earth In the chemicals of tropical plant and animals could be the cure to infinite number of diseases new food sources and who knows what more Despite these facts tropical areas have been exploited in an irresponsible way for more than 500 years due the lack of an ecological conscience of men Exactly in the same way we did with temperate areas and also tropical areas in the north of Equator line Nowadays is estimated that due human exploitation nation conflicts and social problems less than 8% of tropical nature inside continental areas is still now untouchable The extension of damage in

the tropical areas of oceans is unknown Thus so all knowledge we could accumulate about tropical systems will help us as in the preservations of these important and threatened ecosystems as in a future recuperation when it was possible Only knowing the past and developing culture mainly that directed to peace to a better relationship among nations and responsible use and preservation of natural resources human beings will have a long future on Earth These volumes Tropical Biology and Natural Resources was divided in sessions to provide the reader the better comprehension possible of issue and also to enable future complementation and improvements in the encyclopedia Like we work with life we intended to transform this encyclopedia also in a life volume in what new information could be added in any time As president of the encyclopedia and main editor I opened the theme with an article titled Tropical Biology and Natural resources Historical Pathways and Perspectives providing the reader an initial view of the origins of human knowledge about the tropical life and what we hope to the future In the sequence we have more than 100 chapters distributed in tem sessions Tropical Ecology TE Tropical Botany TB Tropical Zoology TZ Savannah Ecosystems SE Desert Ecosystems DE Tropical Agriculture TA Natural History of Tropical Plants NH Human Impact on Tropical Ecosystems HI Tropical Phytopathology and Entomology TPE Case Studies CS This 11 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It is the only publication of its kind carrying state of the art knowledge in the fields of Tropical Biology and Conservation Management and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

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

Environmental Threats to Pollinator Health and Fitness Jon Harrison,2023-05-12 Environmental Threats to Pollinator Health and Fitness Volume 64 in the Advances in Insect Physiology series highlights new advances in the field with this new volume presenting interesting chapters on a variety of topics including The threat of higher temperatures to pollinating insects The challenge of balancing fungicide use and pollinator health Insecticide effects on pollinating insects Effects of invasive pathogens and parasites on pollinating insects Heavy metal pollutants the hidden pervasive threat to honey bees and other pollinators Honey bee nutritional ecology from physiology to landscapes and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Advances in Insect Physiology series Updated release includes the latest information on the Environmental Threats to Pollinator Health and Fitness

Sensory Ecology of Plant-Pollinator Interactions Casper J. Van Der Kooi,Sara Diana Leonhardt,Johannes Spaethe,2022-09-07

Ecology and Evolution of Flowers ,2006-11-30 The reproductive organs and mating biology of angiosperms exhibit greater variety than those of any other group of organisms Flowers and inflorescences are also the most diverse structures produced by angiosperms and floral traits provide some of the most compelling examples of evolution by natural selection Given that

flowering plants include roughly 250 000 species their reproductive diversity will not be explained easily by continued accumulation of case studies of individual species Instead a more strategic approach is now required which seeks to identify general principles concerning the role of ecological function in the evolution of reproductive diversity The Ecology and Evolution of Flowers uses this approach to expose new insights into the functional basis of floral diversity and presents the very latest theoretical and empirical research on floral evolution Floral biology is a dynamic and growing area and this book written by the leading internationally recognized researchers in this field reviews current progress in understanding the evolution and function of flowers Chapters contain both new research findings and synthesis Major sections in turn examine functional aspects of floral traits and sexual systems the ecological influences on reproductive adaptation and the role of floral biology in angiosperm diversification Overall this integrated treatment illustrates the role of floral function and evolution in the generation of angiosperm biodiversity This advanced textbook is suitable for graduate level students taking courses in plant ecology evolution systematics biodiversity and conservation It will also be of interest and use to a broader audience of plant scientists seeking an authoritative overview of recent advances in floral 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

Carotenoids, Vol. 4: Natural Functions George Britton, Synnove Liaaen-Jensen, Hanspeter Pfander, 2008-11-14 The Carotenoids book series provides an introduction to the fundamental chemistry detailed accounts of the basic methods used in carotenoid research and critical discussions of the biochemistry functions and applications of carotenoids Part 1 discusses the fundamental properties on which the biological functions and effects of carotenoids depend Part 2 describes important natural functions of carotenoids in all kinds of living organisms

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