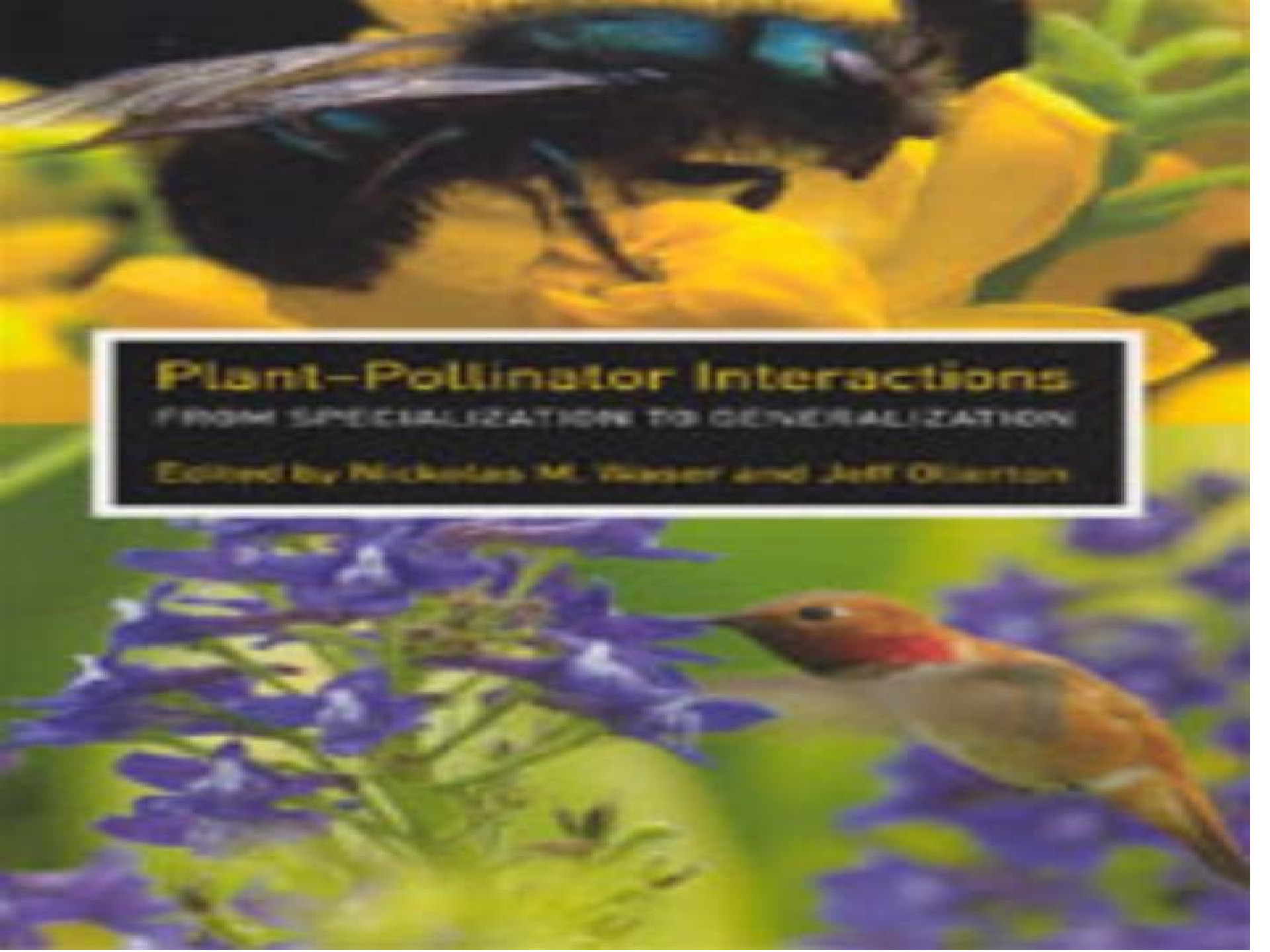




Plant-Pollinator Interactions

FROM SPECIALIZATION TO GENERALIZATION

Edited by Nicholas M. Waser and Jeff Ollerton

Plant Pollinator Interactions From Specialization To Generalization

**Francisco Pugnaire, Fernando
Valladares**



Plant Pollinator Interactions From Specialization To Generalization:

Plant-Pollinator Interactions Nickolas M. Waser, Jeff Ollerton, Just as flowering plants depend on their pollinators many birds insects and bats rely on plants for energy and nutrients This plant pollinator relationship is essential to the survival of natural and agricultural ecosystems Plant Pollinator Interactions portrays the intimate relationships of pollination over time and space and reveals patterns of interactions from individual to community levels showing how these patterns change at different spatial and temporal scales Nickolas M Waser and Jeff Ollerton bring together experts from around the world to offer a comprehensive analysis of pollination including the history of thinking about specialization and generalization and a comparison of pollination to other mutualisms An overview of current thinking and of future research priorities Plant Pollinator Interactions covers an important theme in evolutionary ecology with far reaching applications in conservation and agriculture This book will find an eager audience in specialists studying pollination and other mutualisms as well as with biologists who are interested in ecological evolutionary and behavioral aspects of the specialization and generalization of species *Functional Plant Ecology* Francisco Pugnaire, Fernando Valladares, 2007-06-20 Following in the footsteps of the successful first edition Functional Plant Ecology Second Edition remains the most authoritative resource in this multidisciplinary field Extensively revised and updated this book investigates plant structure and behavior across the ecological spectrum It features the ecology and evolution of plant crowns and a *Diversity, Generalization, and Specialization in Plant-Pollinator Networks of Montane Meadows, Western Cascades, Oregon* Edward Helderop, 2015 Despite the importance of plant pollinator interactions for ecological communities few long term observational studies have been conducted of plant pollinator networks Using four years of plant pollinator interaction data from 18 meadows in the Willamette National Forest Oregon this thesis examined how meadow size the amount of nearby meadow habitat weather degree days and soil moisture are related to the frequency of plant pollinator interactions Spatial and temporal turnover of plant and pollinator assemblages based on the Jaccard dissimilarity index were compared between meadows in a given year and within a meadow in different years The degree distributions of these plant pollinator networks were constructed and analyses were conducted to determine the prevalence of generalization in the component species and the possible presence of modularity in some of the meadows Pollinator assemblages varied little in space pollinator communities were very similar in the 18 study meadows in a given year but pollinator communities differed dramatically between years In contrast plant assemblages had high turnover plants differed dramatically between nearby meadows in the same year and plant turnover was also high within meadows between years Network structures were dominated by species that were very well connected and they contained more well connected species than would occur in a randomly assembled network Plant and pollinator assemblages in interaction networks also were dominated by generalist species Some evidence of modularity occurred in small meadows in the network The results of this study are consistent with many published studies that have found that

generalization in plant pollinator networks promotes their resilience over time in spite of the high component species turnover occurring between growing seasons These results provide little support for the hypothesis that pollinator networks in fragmented habitats are fragile and highly sensitive to the loss of individual species However the high spatial heterogeneity among the meadows in this study shown by dissimilarity in flowering plants and the high permeability of the forest separating the meadow habitats shown by the similarity among pollinators both contribute to the generalization and resilience of these networks Future work on plant pollinator networks should focus on naturally fragmented heterogeneous habitats and continue to observe long term changes in pollinator assemblages

Food Webs John C. Moore, Peter C. de Ruiter, Kevin S. McCann, 2018 This book presents new approaches to studying food webs using practical and policy examples to demonstrate the theory behind ecosystem management decisions

Approaches to Plant Evolutionary Ecology Gregory Paul Cheplick, 2015 Plant evolutionary ecology is a rapidly growing discipline which emphasizes that populations adapt and evolve not in isolation but in relation to other species and abiotic environmental features such as climate Although it departs from traditional evolutionary and ecological fields of study the field is connected to branches of ecology genetics botany conservation and to a number of other fields of applied science primarily through shared concepts and techniques However most books regarding evolutionary ecology focus on animals creating a substantial need for scholarly literature with an emphasis on plants Approaches to Plant Evolutionary Ecology is the first book to specifically explore the evolutionary characteristics of plants filling the aforementioned gap in the literature on evolutionary ecology Renowned plant ecologist Gregory P Cheplick summarizes and synthesizes much of the primary literature regarding evolutionary ecology providing a historical context for the study of plant populations from an evolutionary perspective The book also provides summaries of both traditional common gardens reciprocal transplants and modern molecular genetic approaches used to address questions about plant adaptation to a diverse group of abiotic and biotic factors Cheplick provides a rigorously written introduction to the rapidly growing field of plant evolutionary ecology that will appeal to undergraduate and graduate students with an interest in ecology and evolution as well as educators who are teaching courses on related topics

Global Change in Multispecies Systems: Part I, 2012-10-05 Advances in Ecological Research is one of the most successful series in the highly competitive field of ecology Each volume publishes topical and important reviews interpreting ecology as widely as in the past to include all material that contributes to our understanding of the field Topics in this invaluable series include the physiology populations and communities of plants and animals as well as landscape and ecosystem ecology Advances in Ecological Research is one of the most successful series in the highly competitive field of ecology Each volume publishes topical and important reviews interpreting ecology as widely as in the past to include all material that contributes to our understanding of the field

Mutualism Judith L. Bronstein, 2015-07-30 Mutualisms interactions between two species that benefit both of them have long captured the public imagination Their influence transcends levels of biological organization

from cells to populations communities and ecosystems Mutualistic symbioses were crucial to the origin of eukaryotic cells and perhaps to the invasion of land Mutualisms occur in every terrestrial and aquatic habitat indeed ecologists now believe that almost every species on Earth is involved directly or indirectly in one or more of these interactions Mutualisms are essential to the reproduction and survival of virtually all organisms as well as to nutrient cycles in ecosystems Furthermore the key ecosystem services that mutualists provide mean that they are increasingly being considered as conservation priorities ironically at the same time as the acute risks to their ecological and evolutionary persistence are increasingly being identified This volume the first general work on mutualism to appear in almost thirty years provides a detailed and conceptually oriented overview of the subject Focusing on a range of ecological and evolutionary aspects over different scales from individual to ecosystem the chapters in this book provide expert coverage of our current understanding of mutualism whilst highlighting the most important questions that remain to be answered In bringing together a diverse team of expert contributors this novel text captures the excitement of a dynamic field that will help to define its future research agenda

Pollinators and Pollination Jeff Ollerton, 2021-01-18 A unique and personal insight into the ecology and evolution of pollinators their relationships with flowers and their conservation in a rapidly changing world The pollination of flowers by insects birds and other animals is a fundamentally important ecological function that supports both the natural world and human society Without pollinators to facilitate the sexual reproduction of plants the world would be a biologically poorer place in which to live there would be an impact on food security and human health would suffer Written by one of the world's leading pollination ecologists this book provides an introduction to what pollinators are how their interactions with flowers have evolved and the fundamental ecology of these relationships It explores the pollination of wild and agricultural plants in a variety of habitats and contexts including urban rural and agricultural environments The author also provides practical advice on how individuals and organisations can study and support pollinators As well as covering the natural history of pollinators and flowers the author discusses their cultural importance and the ways in which pollinator conservation has been portrayed from a political perspective The book draws on field work experiences in South America Africa Australia the Canary Islands and the UK For over 30 years the author has spent his career researching how plants and pollinators evolve relationships how these interactions function ecologically their importance for society and how we can conserve them in a rapidly changing world This book offers a unique and personal insight into the science of pollinators and pollination aimed at anyone who is interested in understanding these fascinating and crucial ecological interactions

Mutualistic Networks Jordi Bascompte, Pedro Jordano, 2013-12-08 Mutualistic interactions among plants and animals have played a paramount role in shaping biodiversity Yet the majority of studies on mutualistic interactions have involved only a few species as opposed to broader mutual connections between communities of organisms Mutualistic Networks is the first book to comprehensively explore this burgeoning field Integrating different approaches from the statistical description of network structures to the

development of new analytical frameworks Jordi Bascompte and Pedro Jordano describe the architecture of these mutualistic networks and show their importance for the robustness of biodiversity and the coevolutionary process Making a case for why we should care about mutualisms and their complex networks this book offers a new perspective on the study and synthesis of this growing area for ecologists and evolutionary biologists It will serve as the standard reference for all future work on mutualistic interactions in biological communities *Encyclopedia of Evolutionary Biology* ,2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process

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