



The Ecology  
*and*  
Evolution  
*of*  
Ant-Plant  
Interactions

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&  
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# The Ecology And Evolution Of Ant Plant Interactions

## Interspecific Interactions Paperback July 15 2007

**Victor Rico-Gray,Paulo S. Oliveira**

## **The Ecology And Evolution Of Ant Plant Interactions Interspecific Interactions Paperback July 15 2007:**

*The Ecology and Evolution of Ant-Plant Interactions* Victor Rico-Gray, Paulo S. Oliveira, 2008-09-15 Ants are probably the most dominant insect group on Earth representing ten to fifteen percent of animal biomass in terrestrial ecosystems. Flowering plants meanwhile owe their evolutionary success to an array of interspecific interactions such as pollination, seed dispersal and herbivory that have helped to shape their great diversity. *The Ecology and Evolution of Ant Plant Interactions* brings together findings from the scientific literature on the coevolution of ants and plants to provide a better understanding of the unparalleled success of these two remarkable groups of interspecific interactions in general and ultimately of terrestrial biological communities. *The Ecology and Evolution of Ant Plant Interactions* synthesizes the dynamics of ant plant interactions including the sources of variation in their outcomes. Victor Rico Gray and Paulo S Oliveira capture both the emerging appreciation of the importance of these interactions within ecosystems and the developing approaches that place studies of these interactions into a broader ecological and evolutionary context. The collaboration of two internationally renowned scientists *The Ecology and Evolution of Ant Plant Interactions* will become a standard reference for understanding the complex interactions between these two taxa.

**The Evolutionary Ecology of Ant-Plant Mutualisms** Andrew James Beattie, 1985-11-29 This important work explores the natural history, experimental approach and integration of evolutionary and ecological literature of ant plant mutualisms.

**Ant-Plant Interactions** Paulo S. Oliveira, Suzanne Koptur, 2017-08-17 The first volume devoted to anthropogenic effects on interactions between ants and flowering plants considered major parts of terrestrial ecosystems.

**Ant-plant Interactions** Camilla R. Huxley, 1991 This book presents current research on all types of ant plant interactions and concentrates on understanding these often complex relationships in evolutionary and ecological terms. The range of interactions varies from herbivory, leaf cutter ants to complex symbiosis. Many ants prey on plant pests thus protecting the plant from harm, receiving in exchange nectar and/or nest sites. In some cases the ants tend and protect other insects such as butterfly larvae or Homopterans which include the aphids and cicadas which may benefit the ants at the expense of both the host plant and the other insects. Some ants are known to be seed dispersers and in at least one plant, cocoa, they appear to affect rates of pollination. A significant proportion of these interactions exhibit a high degree of mutualism, making this book part of a growing literature on the ecological determinants of mutualistic behaviour. The thirty seven chapters by more than fifty contributors range in geographical coverage from northern and southern temperate zones to the New World tropics to Australia and South east Asia. The emphasis throughout even in the more descriptive chapters is on possible explanations for observed phenomena. Workers in ecology, evolution and behavior will welcome this compendium of information on a subject that has become a modern testing ground for evolutionary ecology.

**Plant Animal Interactions** Carlos M. Herrera, Olle Pellmyr, 2009-04-13 Interactions between plants and animals are incredibly diverse and complex and span terrestrial, atmospheric and aquatic environments. The last decade has seen the emergence of a vast quantity of data on

the subject and there is now a perceived need among both teachers and undergraduate students for a new textbook that incorporates the numerous recent advances made in the field The book is intended for use by advanced level undergraduate and beginning graduate students taking related courses in wider ecology degree programmes Very few books cover this subject and those that do are out of date Positive Plant Interactions and Community Dynamics Francisco

Pugnaire,2010-02-09 Ever since the concept of the struggle for life became the heart of Darwin s theory of evolution biologists have studied the relevance of interactions for the natural history and evolution of organisms Although positive interactions among plants have traditionally received little attention there is now a growing body of evidence showing the ef

**Plant-Animal Interactions** Peter W. Price,Thomas M. Lewinsohn,G. Wilson Fernandes,Woodruff W. Benson,1991-02-05 Novel Aspects of Insect Plant Interactions Edited by Pedro Barbosa and Deborah K Letourneau Focusing on three trophic levels this study widens the current understanding of the ecological interactions between plants herbivores and their parasitoids and predators Emphasized are the mediating effects of plant derived allelochemicals on those interactions The text also covers microorganisms as mediators of intertrophic and intratrophic interactions theory and mechanisms plant effects via allelochemicals on the third trophic level and key roles of plant allelochemicals in survival strategies of herbivores 1988 0 471 83276 6 362 pp Plant Stress Insect Interactions Edited by E A Heinrichs This is a far reaching seminal book that summarizes our understanding of the complexity of real world ecology Choice This first major overview of the various abiotic and biotic stresses on plants outlines in detail what impact their responses have on their suitability as insect hosts The effects of abiotic stress are catalogued in up to date research from leading specialists The implications of plant stress on global food production in this era of diminishing croplands and rising populations is described as well as avenues for the development of tolerant crop cultivars 1988 0 471 82648 0 492 pp Plant Resistance to Insects A Fundamental Approach C Michael Smith This comprehensive text developed out of the author s vast field and academic experience describes how biological and agricultural scientists identify and develop plant materials resistant to insects Covers terminology and categories of resistance investigative techniques for studying plant resistance and crop management systems that use insect resistant cultivars Supplemented with tables detailing types and numbers of insect resistant plant cultivars in the U S and formulae on quantifying plant tolerance of insects 1989 0 471 84938 3 286 pp

**Seed Dispersal by Ants in a Deciduous Forest Ecosystem** Elena Gorb,Stanislav Gorb,2003-08-31 Countless ants transport and deposit seeds and thereby influence the survival death and evolution of many plant species In higher plants seed dispersal by ants myrmecochory has appeared many times independently in different lineages More than 3000 plant species are known to utilize ant assistance to be planted Myrmecochory is a very interesting and rather enigmatic form of mutualistic ant plant associations This phenomenon is extremely complex because there are hundreds of ant species connected with hundreds of plant species This book effectively combines a thorough approach to investigating morphological and physiological adaptations of plants with elegant field

experiments on the behaviour of ants This monograph is a first attempt at collecting information about morphology ecology and phenology of ants and plants from one ecosystem The book gives readers a panoramic view of the hidden poorly known interrelations not only between pairs of ants and plant species but also between species communities in the ecosystem The authors have considered not just one aspect of animal plant relationships but have tried to show them in all their complexity Some aspects of the ant plant interactions described in the book may be of interest to botanists others to zoologists or ecologists but the entire work is an excellent example of the marriage of these biological disciplines

*The Ecology and Evolution of Ant- Aphid Interactions* ,2009    *Ant-plant interactions in Australia* R.P. Buckley,2012-12-06 Early research on ant plant interactions in Australia was largely confined to the economically important problem of ants harvesting surface sown pasture seed e g Campbell 1966 The report by Berg 1975 of widespread myrmecochory in Australia and a burst of overseas research stimulated research on a range of ant plant interactions in Australia This book summarizes such research and presents reeent and current work on seed harvesting myrmecochory ant epiphytes extrafloral nectaries ant plant homopteran systems and the influence of vegetation on ant faunas I hope that it will encourage further work in these and related areas and that the review and bibliography of ant plant interactions in the rest ofthe world will serve as a useful source for those entering the field The richness of Australia s flora and ant fauna render it a particularly interesting continent for the study of interactions between them As immediately apparent from the list of contents ant seed interactions are particularly significant in Australia This is not surprising for a relatively dry continent bearing a largely sclerophyllous plant cover Future research however especially in the tropical north is like1y to reveal further types of interaction perhaps corresponding to those characteristic of the tropics elsewhere or perhaps distinctively Australian Some of the chapters have been shortened and modified considerably from the original manuscripts but the ideas and results presented are of course those of the individual authors

**Plant-animal Interactions** Warren G. Abrahamson,1989 Thorough coverage of multitrophic level plant animal interactions Discusses a wide range of significant aspects such as herbivore plant interactions with coverage of insects as well as mammals carnivorous plant ecology and evolution pollination and population dispersal agents plant communities as habitats for animals interactions in agroecosystems and coevolution

**Ecology of Insect-plant Interactions** Peter J. Edwards,Stephen D. Wratten,1980 Plants and herbivores The problems of plants as food for animals Secondary plant substances as toxins The value of secondary plant substances for insects host plant finding and recognition The value of secondary plant substances for insects communication and defense The role of secondary plant substances in host plant resistance The co evolution of plants and herbivores Biogeographical implications

**Ant Encounters** Deborah M. Gordon,2010-03-22 How do ant colonies get anything done when no one is in charge An ant colony operates without a central control or hierarchy and no ant directs another Instead ants decide what to do based on the rate rhythm and pattern of individual encounters and interactions resulting in a dynamic network that coordinates the functions of the colony Ant

Encounters provides a revealing and accessible look into ant behavior from this complex systems perspective. Focusing on the moment to moment behavior of ant colonies, Deborah Gordon investigates the role of interaction networks in regulating colony behavior and relations among ant colonies. She shows how ant behavior within and between colonies arises from local interactions of individuals and how interaction networks develop as a colony grows older and larger. The more rapidly ants react to their encounters, the more sensitively the entire colony responds to changing conditions. Gordon explores whether such reactive networks help a colony to survive and reproduce, how natural selection shapes colony networks and how these structures compare to other analogous complex systems. Ant Encounters sheds light on the organizational behavior, ecology and evolution of these diverse and ubiquitous social insects. Plant Interactions with Other Organisms New phytologist symposium, 2013 Chance and Selection in the Evolution of Positive Species Interactions Matthew Thomas Rutter, 2002

**Chemical Ecology of a Neotropical Ant-plant System** Megan Elizabeth Frederickson, 2001 **Insect-Plant Interactions (1990)** Elizabeth A. Bernays, 2017-09-20 Insect Plant Interactions is a series devoted to reviews across the breadth of the topic from cellular mechanisms to ecology and evolution. Articles are selected from areas of particular current interest or subjects that would especially benefit from a new review. It is hoped that the interdisciplinary selection in each volume will help readers to enter new fields of insect plant interactions. Volume III contains six contrasting articles.

**Thermal Ecology of Mutualism: The Consequences of Temperature for Ant-Plant Interactions** Ginny Fitzpatrick, 2014 Mutualism is an often complex positive interaction between species, each of which responds independently to varying biotic and abiotic conditions. Temperature is an important factor that can affect species both directly e.g. physiologically and indirectly e.g. via its effects on interactions with consumers, competitors and mutualists. Although much research has investigated the consequences of temperature for individual organisms, the effects of temperature on the formation, dissolution and success of species interactions remain minimally understood. The unique ways in which species respond to temperature likely play a role in structuring communities. Environmental heterogeneity, including the thermal environment, can promote coexistence when species exploit resources in different ways, such as by occupying different thermal niches. This dissertation examines the consequences of temperature for participants in an ant-plant protection mutualism and investigates how the thermal ecology of individual species affects the interaction. Many mutualisms involve multiple species or interacting guilds. In these mutualisms, species interact with partner species that vary in multiple characteristics. Mutualists are quite sensitive to both partner quantity and partner quality e.g. their effectiveness at performing a beneficial task. Mutualisms between ants and plants are common across a variety of habitats worldwide, which differ in thermal range fluctuation and seasonality. In light of ants' well-studied and predictable responses to temperature, ant-plant interaction networks provide excellent systems for studying the thermal ecology of mutualisms. In ant-plant protection mutualisms, each of the participants, ants, plants and enemies, likely differs in its response to temperature. In addition to the

direct effects of temperature on ant species temperature may affect the magnitude of mutualistic interactions among species by affecting the quantity and quality of the reward offered to partners and the activity of the partners themselves and the plant's enemies i.e. herbivores. If herbivores are more thermally tolerant than the mutualistic ant defenders the consequences for plants may well be severe however if herbivores are less thermally tolerant than are the ants the effects of rising temperatures might be mitigated although less effective ants might be more frequent in a warmer world herbivores would be less abundant there. This dissertation describes the thermal ecology of the participants in a mutualism between the cactus *Ferocactus wislizeni* and four of its common ant defenders *Forelius pruinosus* *Crematogaster opuntiae* *Solenopsis aurea* and *Solenopsis xyloni* in the extreme environment of the Sonoran Desert USA. The ants are attracted to extrafloral nectar produced by the plant and in exchange protect the plants from herbivores including a common phytophagous cactus bug *Narnia pallidicornis* Hemiptera Coreidae. Specifically it investigates how thermal ecology of the individual species affects the interactions among those species. Also it considers the impact of a tradeoff between behavioral dominance and thermal tolerance among ants.

**Reversed Animal-plant Interactions , The Evolution and Ecology of an Ant-plant Symbiosis** Chadwick Vaughn Tillberg, 2003

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