

# Evolutionary ecology of plant-plant interactions

*An empirical modelling approach*

Christian Damsgaard

# Evolutionary Ecology Of Plantplant Interactions

**Sébastien Patiny**



## **Evolutionary Ecology Of Plantplant Interactions:**

Evolutionary Ecology of Plant-Plant Interactions Christian Damgaard, 2005-06-01 Concepts and simple empirical models that are useful in the study of the quantitative aspects of evolutionary ecology of plant plant interactions is discussed and developed and the use of simple empirical models in the statistical analysis of plant ecological data is exemplified Special attention is paid to the consequences of the sedentary life form of adult plants and the subsequent strong interactions between neighbouring plants The monograph provides an overview of different evolutionary and ecological empirical plant population models and conceptual links between different modelling approaches e g spatial individual based or plant size explicit modelling and the equilibrium conditions of mean field models The biological information underlying the discussed models is only briefly discussed Christian Damgaard is Senior Scientist at the Department of Terrestrial Ecology the National Environmental Research Institute

**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taking related courses in wider ecology degree programmes Very few books cover this subject and those that do are out of date

Evolutionary Ecology of Plant-Herbivore Interaction Juan Núñez-Farfán, Pedro Luis Valverde, 2020-07-30 Plant herbivore interactions are a central topic in evolutionary ecology Historically their study has been a cornerstone for coevolutionary theory Starting from classic ecological studies at the phenotypic level it has since expanded to molecular and genomic approaches After a historical perspective the book s subsequent chapters cover a wide range of topics from populations to ecosystems plant and herbivore focused studies in natural and in man modified ecosystems and both micro and macro evolutionary levels All chapters include valuable background information and empirical evidence Given its scope the book will be of interest to both students and researchers and will hopefully stimulate further research in this exciting field of evolutionary biology

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

*The Evolutionary Ecology of Plant Disease* Gregory Gilbert, Ingrid M. Parker, 2023 This advanced textbook investigates how pathogens shape diversity in plant communities how features of plant microbe interactions including host range and mutualism antagonism evolve and how biological invasions climate change and other agents of global change can drive disease emergence

Approaches to Plant Evolutionary Ecology G.P. Cheplick, 2015-07-01 This book introduces the rapidly growing field of plant evolutionary ecology It summarizes and synthesizes much primary literature providing a historical context for the study of populations It also examines both traditional common gardens reciprocal transplants and modern

molecular genetic approaches used to address questions about adaptation to abiotic and biotic factors     Plant-animal Interactions ,1991     **The Evolutionary Ecology Of Plants** Jane H Bock,Yan B Linhart,G L Stebbins,Charles E

Turner,2019-06-25 This book presents a broad view of contemporary research in evolutionary plant ecology It illustrates the broad spectrum of life history stages which affect plant reproductive success in some fashion     **Evolutionary Ecology Of**

**Plants** Jane H. Bock,J. H. and Linhart,Y.B.,1990-01-01 Traditionally plant ecology has focused on the description of plant communities on nutrient dynamics within these communities and on environmental factors affecting the ecology of individuals In recent years the need for a more sophisticated look at the interactions within and between species and populations has emerged along with renewed appreciation for the importance of genetic and evolutionary plant ecology The papers representing current major research areas cover plant life histories evolutionary dynamics plant breeding systems evolution and organisation of communities plant animal interactions and the interfaces between plants agriculture and conservation     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     **Evolutionary Ecology across Three Trophic Levels**

Warren G. Abrahamson,Arthur E. Weis,2020-03-31 In a work that will interest researchers in ecology genetics botany entomology and parasitology Warren Abrahamson and Arthur Weis present the results of more than twenty five years of studying plant insect interactions Their study centers on the ecology and evolution of interactions among a host plant the parasitic insect that attacks it and the suite of insects and birds that are the natural enemies of the parasite Because this system provides a model that can be subjected to experimental manipulations it has allowed the authors to address specific theories and concepts that have guided biological research for more than two decades and to engage general problems in evolutionary biology The specific subjects of research are the host plant goldenrod *Solidago* the parasitic insect *Eurosta solidaginis* Diptera Tephritidae that induces a gall on the plant stem and a number of natural enemies of the gallfly By

presenting their detailed empirical studies of the Solidago Eurosta natural enemy system the authors demonstrate the complexities of specialized enemy victim interactions and thereby the complex interactive relationships among species more broadly By utilizing a diverse array of field laboratory behavioral genetic chemical and statistical techniques Abrahamson and Weis present the most thorough study to date of a single system of interacting species Their interest in the evolutionary ecology of plant insect interactions leads them to insights on the evolution of species interactions in general This major work will interest anyone involved in studying the ways in which interdependent species interact Plant-Animal Interactions Kleber Del-Claro, Helena Maura Torezan-Silingardi, 2021-05-03 This textbook provides the first overview of plant animal interactions for twenty years focused on the needs of students and professors It discusses a range of topics from the basic structures of plant animal interactions to their evolutionary implications in producing and maintaining biodiversity It also highlights innovative aspects of plant animal interactions that can represent highly productive research avenues making it a valuable resource for anyone interested in a future career in ecology Written by leading experts and employing a variety of didactic tools the book is useful for students and teachers involved in advanced undergraduate and graduate courses addressing areas such as herbivory trophic relationships plant defense pollination and biodiversity 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 *The Biology of Plant-Insect Interactions* Chandrakanth Emani, 2018-03-05 Overviews of biochemical genetic and molecular perspectives of plant insect interactions with added emphasis on bioinformatic genomic and transcriptome analysis are comprehensively treated in this book It presents the agro ecological and evolutionary aspects of plant insect interactions with an exclusive focus on the climate change effect on the resetting of plant insect interactions A valuable resource for biotechnologists entomologists agricultural scientists and policymakers the book includes theoretical aspects as a base toward real world applications of holistic integrated pest management in agro ecosystems *Relentless Evolution* John N. Thompson, 2022-12-22 At a glance most species seem adapted to the environment in which they live Yet species relentlessly evolve and populations within species evolve in different ways Evolution as it turns out is much more dynamic than biologists realized just a few decades ago In *Relentless Evolution* John N Thompson explores why adaptive evolution never ceases and why natural selection acts on species in so many different ways Thompson presents a view of life in which ongoing evolution is essential and inevitable Each chapter focuses on one of the major problems in adaptive evolution How fast is evolution How strong is natural selection How do species co opt the genomes of other species as they adapt Why does adaptive evolution sometimes lead to more rather than less genetic variation within populations How does the process of adaptation drive the evolution of new species How does coevolution among species continually reshape the web of life And more generally how are our views of adaptive evolution changing *Relentless Evolution* draws on studies of all the major forms of life from microbes that evolve in

microcosms within a few weeks to plants and animals that sometimes evolve in detectable ways within a few decades It shows evolution not as a slow and stately process but rather as a continual and sometimes frenetic process that favors yet more evolutionary change      **Insect-Plant Interactions (1992)** Elizabeth A. Bernays,2017-11-22 This is the fourth volume of a series devoted to providing a comprehensive review of the study of plant eating insects covering topics ranging from biochemistry to ecology and evolution Volume IV examines the status of mutualism using the fig insect interaction phytosterols as important components of adaptive syndromes in herbivorous insects methods utilized by plant eating insects to detect compounds that deter feeding including the various codes and how and why they vary and the nature and significance of extrafloral nectaries in plants The book also covers the varied roles of quinolizidines in plants in addition to reviewing the controversial arena of plant stress and insect performance Insect Plant Interactions Volume IV is an important reference work for entomologists zoologists ecologists and other scientists involved in studies with insect plant interactions

**The Ecology and Evolution of Ant-Plant Interactions** Victor Rico-Gray,Paulo S. Oliveira,2007-07-15 Publisher description      **Effects of Resource Distribution on Animal Plant Interactions** Mark D. Hunter,Takayuki Ohgushi,Peter W. Price,2012-12-02 Aimed primarily at advanced graduate students and professional biologists this book explores the degree to which animal b1plant interactions are determined by plant and animal variability Many of the patterns seen in natural communities appear to result from cascading effects up as well as down the trophic system Variability among primary producers can influence animal and plant population quality and dynamics community structure and the evolution of animal b1plant interactions      [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      *Insect Evolutionary Ecology* Royal Entomological Society of London. Symposium,2005 Insects provide excellent model systems for understanding evolutionary ecology They are abundant small and relatively easy to rear and these traits facilitate both field and laboratory experiments This book has been developed from the Royal Entomological Society s 22nd international symposium held in Reading in 2003 Topics include speciation and adaptation life history phenotype plasticity and genetics sexual selection and reproductive biology insect plant interactions insect natural enemy interactions and social insects

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