

# Mate Choice in Plants:

TACTICS, MECHANISMS,  
AND CONSEQUENCES

MARY F. WILSON  
AND NANCY BURLEY

MONOGRAPHIES IN POPULATION BIOLOGY, 6, 1992

# Mate Choice In Plants Tactics Mechanisms And Consequences

**Jordi Bascompte, Pedro Jordano**



## **Mate Choice In Plants Tactics Mechanisms And Consequences:**

*Mate Choice in Plants* Nancy Burley, Mary F. Willson, 2020-03-31 This book maintains that higher plants manifest some degree of sexual selection and it begins to build a framework that unifies many features of plant reproduction previously considered unrelated. Reviewing evidence for sexual selection in plants, the authors discuss possible male-female interactions, concluding with an extensive set of hypotheses for testing. Mechanisms that could be employed in sexual selection in plants include various cellular mechanisms such as both nuclear and cytoplasmic genetics, B chromosomes, and paternal contributions to the zygote, as well as abortion, double fertilization, delayed fertilization, and certain forms of polyembryony. This study compares the consequences of these processes for the evolution of mate choice in gymnosperms and angiosperms.

Mate Choice Gil G. Rosenthal, 2017-07-18 A major new look at the evolution of mating decisions in organisms from protozoans to humans. The popular consensus on mate choice has long been that females select mates likely to pass good genes to offspring. In *Mate Choice*, Gil Rosenthal overturns much of this conventional wisdom, providing the first synthesis of the topic in more than three decades and drawing from a wide range of fields including animal behavior, evolutionary biology, social psychology, neuroscience, and economics. Rosenthal argues that good genes play a relatively minor role in shaping mate choice decisions and demonstrates how mate choice is influenced by genetic factors, environmental effects, and social interactions. Looking at diverse organisms from protozoans to humans, Rosenthal explores how factors beyond the hunt for good genes combine to produce an endless array of preferences among species and individuals. He explains how mating decisions originate from structural constraints on perception and from nonsexual functions, and how single organisms benefit or lose from their choices. Both the origin of species and their fusion through hybridization are strongly influenced by direct selection on preferences in sexual and nonsexual contexts. Rosenthal broadens the traditional scope of mate choice research to encompass not just animal behavior and behavioral ecology but also neurobiology, the social sciences, and other areas. Focusing on mate choice mechanisms rather than the traits they target, *Mate Choice* offers a groundbreaking perspective on the proximate and ultimate forces determining the evolutionary fate of species and populations. **Plant Reproductive**

**Ecology : Patterns and Strategies** Jon and Lesley Lovett-Doust, Professor of Biology, the University of Windsor, 1988-07-07 This collection of reviews by leading investigators examines plant reproduction and sexuality within a framework of evolutionary ecology, providing an up-to-date account of the field. The contributors discuss conceptual issues, showing the importance of sex allocation, sexual selection, and inclusive fitness, and the dimensions of paternity and maternity in plants. The evolution, maintenance, and loss of self-incompatibility in plants, the nature of sex choice in plants, and sex dimorphism are all explored in detail. Specific forms of biotic interactions shaping the evolution of plant reproductive strategy are discussed, and a taxonomically based review of the reproductive ecology of non-angiosperm plant groups such as bryophytes, ferns, and algae is presented. Together, these studies focus on the complexities of plant life cycles and the distinctive reproductive

biologies of these organisms while showing the similarities between nonflowering plants and the more thoroughly documented flowering species

**Pragmatic Evolution** Aldo Poiani, 2011-11-10 Of what use is evolutionary science to society Can evolutionary thinking provide us with the tools to better understand and even make positive changes to the world Addressing key questions about the development of evolutionary thinking this book explores the interaction between evolutionary theory and its practical applications Featuring contributions from leading specialists Pragmatic Evolution highlights the diverse and interdisciplinary applications of evolutionary thinking their potential and limitations The fields covered range from palaeontology genetics ecology agriculture fisheries medicine neurobiology psychology and animal behaviour to information technology education anthropology and philosophy Detailed examples of useful and current evolutionary applications are provided throughout An ideal source of information to promote a better understanding of contemporary evolutionary science and its applications this book also encourages the continued development of new opportunities for constructive evolutionary applications across a range of fields

*A Theory of Global Biodiversity* Boris Worm, Derek P. Tittensor, 2018-06-12 The number of species found at a given point on the planet varies by orders of magnitude yet large scale gradients in biodiversity appear to follow some very general patterns Little mechanistic theory has been formulated to explain the emergence of observed gradients of biodiversity both on land and in the oceans Based on a comprehensive empirical synthesis of global patterns of species diversity and their drivers A Theory of Global Biodiversity develops and applies a new theory that can predict such patterns from few underlying processes The authors show that global patterns of biodiversity fall into four consistent categories according to where species live on land or in coastal pelagic and deep ocean habitats The fact that most species groups from bacteria to whales appear to follow similar biogeographic patterns of richness within these habitats points toward some underlying structuring principles Based on empirical analyses of environmental correlates across these habitats the authors combine aspects of neutral metabolic and niche theory into one unifying framework Applying it to model terrestrial and marine realms the authors demonstrate that a relatively simple theory that incorporates temperature and community size as driving variables is able to explain divergent patterns of species richness at a global scale Integrating ecological and evolutionary perspectives A Theory of Global Biodiversity yields surprising insights into the fundamental mechanisms that shape the distribution of life on our planet

**The Phytochemical Landscape** Mark D. Hunter, 2016-08-09 The dazzling variation in plant chemistry is a primary mediator of trophic interactions including herbivory predation parasitism and disease At the same time such interactions feed back to influence spatial and temporal variation in the chemistry of plants In this book Mark Hunter provides a novel approach to linking the trophic interactions of organisms with the cycling of nutrients in ecosystems Hunter introduces the concept of the phytochemical landscape the shifting spatial and temporal mosaic of plant chemistry that serves as the nexus between trophic interactions and nutrient dynamics He shows how plant chemistry is both a cause and consequence of trophic

interactions and how it also mediates ecosystem processes such as nutrient cycling. Nutrients and organic molecules in plant tissues affect decomposition rates and the fluxes of elements such as carbon, nitrogen and phosphorus. The availability of these same nutrients influences the chemistry of cells and tissues that plants produce. In combination, these feedback routes generate pathways by which trophic interactions influence nutrient dynamics and vice versa, mediated through plant chemistry. Hunter provides evidence from terrestrial and aquatic systems for each of these pathways and describes how a focus on the phytochemical landscape enables us to better understand and manage the ecosystems in which we live. Essential reading for students and researchers alike, this book offers an integrated approach to population, community and ecosystem level ecological processes.

**Population and Community Ecology of Ontogenetic Development** André M. de Roos, Lennart Persson, 2013-01-15. A bird's eye view of community and population effects of ontogenetic development. Life history processes: ontogenetic development and density dependence, Biomass overcompensation, Emergent allee effects through biomass overcompensation, Emergent facilitation among predators on size structured prey, Ontogenetic niche shifts, Mixed interactions, Ontogenetic niche shifts, predators and coexistence among consumer species, Dynamics of consumer resource systems, Dynamics of consumer resource systems with discrete reproduction, multiple resources and confronting model predictions with empirical data, Cannibalism in size structured systems, Demand driven systems, model hierarchies and ontogenetic asymmetry.

Ecological Niches and Geographic Distributions A. Townsend Peterson, Jorge Soberón, Richard G. Pearson, Robert P. Anderson, Enrique Martínez-Meyer, Miguel Nakamura, Miguel B. Araújo, 2011-10-31. This book provides a first synthetic view of an emerging area of ecology and biogeography linking individual and population level processes to geographic distributions and biodiversity patterns. Problems in evolutionary ecology, macroecology and biogeography are illuminated by this integrative view. The book focuses on correlative approaches known as ecological niche modeling, species distribution modeling or habitat suitability modeling, which use associations between known occurrences of species and environmental variables to identify environmental conditions under which populations can be maintained. The spatial distribution of environments suitable for the species can then be estimated, a potential distribution for the species. This approach has broad applicability to ecology, evolution, biogeography and conservation biology as well as to understanding the geographic potential of invasive species and infectious diseases and the biological implications of climate change. The authors lay out conceptual foundations and general principles for understanding and interpreting species distributions with respect to geography and environment. Focus is on development of niche models. While serving as a guide for students and researchers, the book also provides a theoretical framework to support future progress in the field.

Adaptive Diversification Michael Doebeli, 2011-08-01. Understanding the mechanisms driving biological diversity remains a central problem in ecology and evolutionary biology. Traditional explanations assume that differences in selection pressures lead to different adaptations in geographically separated locations. This book takes a different approach and explores adaptive

diversification rooted in ecological interactions and frequency dependent selection In any ecosystem birth and death rates of individuals are affected by interactions with other individuals What is an advantageous phenotype therefore depends on the phenotype of other individuals and it may often be best to be ecologically different from the majority phenotype Such rare type advantage is a hallmark of frequency dependent selection and opens the scope for processes of diversification that require ecological contact rather than geographical isolation Michael Doebeli investigates adaptive diversification using the mathematical framework of adaptive dynamics Evolutionary branching is a paradigmatic feature of adaptive dynamics that serves as a basic metaphor for adaptive diversification and Doebeli explores the scope of evolutionary branching in many different ecological scenarios including models of coevolution cooperation and cultural evolution He also uses alternative modeling approaches Stochastic individual based models are particularly useful for studying adaptive speciation in sexual populations and partial differential equation models confirm the pervasiveness of adaptive diversification Showing that frequency dependent interactions are an important driver of biological diversity Adaptive Diversification provides a comprehensive theoretical treatment of adaptive diversification *Time in Ecology* Eric Post, 2019-02-26

Ecologists traditionally regard time as part of the background against which ecological interactions play out In this book Eric Post argues that time should be treated as a resource used by organisms for growth maintenance and offspring production Post uses insights from phenology the study of the timing of life cycle events to present a theoretical framework of time in ecology that casts long standing observations in the field in an entirely new light Combining conceptual models with field data he demonstrates how phenological advances delays and stasis documented in an array of taxa can all be viewed as adaptive components of an organism s strategic use of time Post shows how the allocation of time by individual organisms to critical life history stages is not only a response to environmental cues but also an important driver of interactions at the population species and community levels To demonstrate the applications of this exciting new conceptual framework *Time in Ecology* uses meta analyses of previous studies as well as Post s original data on the phenological dynamics of plants caribou and muskoxen in Greenland Self-Organization in Complex Ecosystems Ricard Solé, Jordi Bascompte, 2012-01-06

Can physics be an appropriate framework for the understanding of ecological science Most ecologists would probably agree that there is little relation between the complexity of natural ecosystems and the simplicity of any example derived from Newtonian physics Though ecologists have long been interested in concepts originally developed by statistical physicists and later applied to explain everything from why stock markets crash to why rivers develop particular branching patterns applying such concepts to ecosystems has remained a challenge *Self Organization in Complex Ecosystems* is the first book to clearly synthesize what we have learned about the usefulness of tools from statistical physics in ecology Ricard Sol and Jordi Bascompte provide a comprehensive introduction to complex systems theory and ask do universal laws shape the structure of ecosystems at least at some scales They offer the most compelling array of theoretical evidence to date of the potential of

nonlinear ecological interactions to generate nonrandom self organized patterns at all levels Tackling classic ecological questions from population dynamics to biodiversity to macroevolution the book s novel presentation of theories and data shows the power of statistical physics and complexity in ecology Self Organization in Complex Ecosystems will be a staple resource for years to come for ecologists interested in complex systems theory as well as mathematicians and physicists interested in ecology

*Evolutionary Community Ecology* Mark A. McPeck, 2017-08-29 Cover Title Copyright Dedication Contents Acknowledgments 1 Ecological Opportunities Communities and Evolution 2 The Community of Ecological Opportunities 3 Evolving in the Community 4 New Species for the Community 5 Differentiating in the Community 6 Moving among Communities 7 Which Ways Forward Literature Cited Index

Modeling Populations of Adaptive Individuals Steven F. Railsback, Bret C. Harvey, 2020-05-19 This book offers a new theory for modeling how organisms make tradeoff decisions and how these decisions affect both individuals and populations Tradeoff decisions or behaviors are those that are optimize survival and include behaviors like foraging and reproduction Existing theories have not painted a complete picture of tradeoff decisions because they only observe how the decisions of an individual affect them rather than how individuals impact and are impacted by the behavior of their communities The authors theory which they call state and prediction based theory uses individual based models since these models show the complex ways that organisms relate to their environment The authors broader approach one that integrates behavior and population dynamics allows ecologists to see how individuals make adaptive tradeoff decisions In simpler terms this theory does not assume as the previous models do that future conditions are fixed known and unaffected by the behavior of others Instead the authors assume individuals make decisions like people do which is by forecasting future conditions using approximation to make good decisions and updating their choices as conditions change

*Spatial Ecology* David Tilman, Peter Kareiva, 2018-06-05 Spatial Ecology addresses the fundamental effects of space on the dynamics of individual species and on the structure dynamics diversity and stability of multispecies communities Although the ecological world is unavoidably spatial there have been few attempts to determine how explicit considerations of space may alter the predictions of ecological models or what insights it may give into the causes of broad scale ecological patterns As this book demonstrates the spatial structure of a habitat can fundamentally alter both the qualitative and quantitative dynamics and outcomes of ecological processes Spatial Ecology highlights the importance of space to five topical areas stability patterns of diversity invasions coexistence and pattern generation It illustrates both the diversity of approaches used to study spatial ecology and the underlying similarities of these approaches Over twenty contributors address issues ranging from the persistence of endangered species to the maintenance of biodiversity to the dynamics of hosts and their parasitoids to disease dynamics multispecies competition population genetics and fundamental processes relevant to all these cases There have been many recent advances in our understanding of the influence of spatially explicit processes on individual species and on multispecies communities This book synthesizes these

advances shows the limitations of traditional non spatial approaches and offers a variety of new approaches to spatial ecology that should stimulate ecological research

**Sex Allocation** Stuart West, 2009-10-18 Recent decades have witnessed an explosion of theoretical and empirical studies of sex allocation transforming how we understand the allocation of resources to male and female reproduction in vertebrates invertebrates protozoa and plants In this landmark book Stuart West synthesizes the vast literature on sex allocation providing the conceptual framework the field has been lacking and demonstrating how sex allocation studies can shed light on broader questions in evolutionary and behavioral biology West clarifies fundamental misconceptions in the application of theory to empirical data He examines the field s successes and failures and describes the research areas where much important work is yet to be done West reveals how a shared underlying theoretical framework unites findings of sex ratio variation across a huge range of life forms from malarial parasites and hermaphroditic worms to sex changing fish and mammals He shows how research on sex allocation has been central to many critical questions and controversies in evolutionary and behavioral biology and he argues that sex allocation research serves as a key testing ground for different theoretical approaches and can help resolve debates about social evolution parent offspring conflict genomic conflict and levels of selection Certain to become the defining book on the subject for the next generation of researchers Sex Allocation explains why the study of sex allocation provides an ideal model system for advancing our understanding of the constraints on adaptation among all living things in the natural world

**From Populations to Ecosystems** Michel Loreau, 2010-07-01 The major subdisciplines of ecology population ecology community ecology ecosystem ecology and evolutionary ecology have diverged increasingly in recent decades What is critically needed today is an integrated real world approach to ecology that reflects the interdependency of biodiversity and ecosystem functioning From Populations to Ecosystems proposes an innovative theoretical synthesis that will enable us to advance our fundamental understanding of ecological systems and help us to respond to today s emerging global ecological crisis Michel Loreau begins by explaining how the principles of population dynamics and ecosystem functioning can be merged He then addresses key issues in the study of biodiversity and ecosystems such as functional complementarity food webs stability and complexity material cycling and metacommunities Loreau describes the most recent theoretical advances that link the properties of individual populations to the aggregate properties of communities and the properties of functional groups or trophic levels to the functioning of whole ecosystems placing special emphasis on the relationship between biodiversity and ecosystem functioning Finally he turns his attention to the controversial issue of the evolution of entire ecosystems and their properties laying the theoretical foundations for a genuine evolutionary ecosystem ecology From Populations to Ecosystems points the way to a much needed synthesis in ecology one that offers a fuller understanding of ecosystem processes in the natural world

*Coexistence in Ecology* Mark A. McPeck, 2022-02-08 A comprehensive framework for understanding species coexistence Coexistence is the central concept in community ecology but an understanding of this concept requires



that we study the actual mechanisms of species interactions Coexistence in Ecology examines the major features of these mechanisms for species that coexist at different positions in complex food webs and derives empirical tests from model predictions Exploring the various challenges species face Mark McPeck systematically builds a model food web beginning with an ecosystem devoid of life and then adding one species at a time With the introduction of each new species he evaluates the properties it must possess to invade a community and quantifies the changes in the abundances of other species that result from a successful invasion McPeck continues this process until he achieves a multitrophic level food web with many species coexisting at each trophic level from omnivores mutualists and pathogens to herbivores carnivores and basic plants He then describes the observational and experimental empirical studies that can test the theoretical predictions resulting from the model analyses Synthesizing decades of theoretical research in community ecology Coexistence in Ecology offers new perspectives on how to develop an empirical program of study rooted in the natural histories of species and the mechanisms by which they actually interact with one another Quantitative Viral Ecology Joshua S. Weitz, 2016-01-05

When we think about viruses we tend to consider ones that afflict humans such as those that cause influenza HIV and Ebola Yet vastly more viruses infect single celled microbes Diverse and abundant microbes and the viruses that infect them are found in oceans lakes plants soil and animal associated microbiomes Taking a vital look at the microscopic mode of disease dynamics Quantitative Viral Ecology establishes a theoretical foundation from which to model and predict the ecological and evolutionary dynamics that result from the interaction between viruses and their microbial hosts Joshua Weitz addresses three major questions What are viruses of microbes and what do they do to their hosts How do interactions of a single virus host pair affect the number and traits of hosts and virus populations How do virus host dynamics emerge in natural environments when interactions take place between many viruses and many hosts Emphasizing how theory and models can provide answers Weitz offers a cohesive framework for tackling new challenges in the study of viruses and microbes and how they are connected to ecological processes from the laboratory to the Earth system Quantitative Viral Ecology is an innovative exploration of the influence of viruses in our complex natural world **Fish Ecology, Evolution, and**

**Exploitation** Ken H. Andersen, 2019-07-16 Fish are one of the most important global food sources supplying a significant share of the world's protein consumption From stocks of wild Alaskan salmon and North Sea cod to entire fish communities with myriad species fisheries require careful management to ensure that stocks remain productive and mathematical models are essential tools for doing so Fish Ecology Evolution and Exploitation is an authoritative introduction to the modern size and trait based approach to fish populations and communities Ken Andersen covers the theoretical foundations mathematical formulations and real world applications of this powerful new modeling method which is grounded in the latest ecological theory and population biology He begins with fundamental assumptions on the level of individuals and goes on to cover population demography and fisheries impact assessments He shows how size and trait based models shed new light on

familiar fisheries concepts such as maximum sustainable yield and fisheries selectivity insights that classic age based theory can't provide and develops novel evolutionary impacts of fishing Andersen extends the theory to entire fish communities and uses it to support the ecosystem approach to fisheries management and forges critical links between trait based methods and evolutionary ecology Accessible to ecologists with a basic quantitative background this incisive book unifies the thinking in ecology and fisheries science and is an indispensable reference for anyone seeking to apply size and trait based models to fish demography fisheries impact assessments and fish evolutionary ecology Mutualistic Networks Jordi Bascompte, Pedro Jordano, 2013-12-15 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

## Reviewing **Mate Choice In Plants Tactics Mechanisms And Consequences**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Mate Choice In Plants Tactics Mechanisms And Consequences**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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