

# ECOLOGY AND EVOLUTION OF PLANT REPRODUCTION

New Approaches

Edited by  
Robert Wyatt



Wyatt

ECOLOGY AND EVOLUTION  
OF PLANT REPRODUCTION



# Ecology And Evolution Of Plant Reproduction

**Rosina Ehmann**



## **Ecology And Evolution Of Plant Reproduction:**

*Ecology And Evolution Of Plant Reproduction* Robert Edward Wyatt, 1992 Tremendous progress has been made during the past decade in the burgeoning field of plant reproductive biology A number of quantitative and technical breakthroughs such as horizontal starch gel electrophoresis have resulted in a revolution in our thinking The study of breeding systems which used to be marked by a rather static focus on pollination and self incompatibility has been transformed by dynamic models of transitional pathways and investigators are looking not only into genetic factors but ecological ones as well Workers in the field have recently produced detailed accounts of mating success and the relative fitness of plants as male and female parents thus testing the applicability of sexual selection theory to plants Ecology and Evolution of Plant Reproduction surveys recent advances in the field of plant reproductive biology and identifies fruitful avenues for future research The contributors are well known in the fields of morphology systematics genetics cell biology and ecology representing the full spectrum of approaches that contribute vigor to this emerging field This new work will benefit professionals and graduate students in plant science and plant breeding evolutionary ecology genetics and reproductive biology *Ecology Evolution & Plant Reproduction* R. Wyatt, 2016-05-30 **Plant Reproductive Ecology** Jon Lovett Doust, Lesley Lovett Doust, 1988 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 **Major Evolutionary Transitions in Flowering Plant Reproduction** Spencer C. H. Barrett, 2008-11-28 The first volume to address the study of evolutionary transitions in plants Major Evolutionary Transitions in Flowering Plant Reproduction brings together compelling work from the three areas of significant innovation in plant biology evolution and adaptation in flowers and pollination mating patterns and gender strategies and asexual reproduction and polyploidy Spencer C H Barrett assembles here a distinguished group of authors who address evolutionary transitions using comparative and phylogenetic approaches the tools of genomics population genetics and theoretical modeling and through studies in development and field experiments in ecology With special focus on evolutionary transitions and shifts in reproductive characters key elements of biological diversification and research in evolutionary biology Major Evolutionary Transitions in Flowering Plant Reproduction is the most up to date treatment of a fast moving area of evolutionary biology and ecology

**Life History Evolution in Plants** Timo Olavi Vuorisalo, P. Mutikainen, 2001-11-30 The lack of discussion of the life histories of modular organisms is the weakness of this book that I most regret Modular organisms are different S C Steams The Evolution of Life Histories 1992 Life history theory endeavours to increase our understanding of the processes whereby the broad features of the life cycles of organisms such as the timing and magnitude of reproduction have evolved Although reproductive traits have dominated as study objects due to their immediate importance for evolutionary success much work has also been conducted on patterns of development growth and senescence as well as on the shifts in resource allocation related to these processes The basic axiom of life history theory is that patterns of life histories such as reproductive traits are subject to evolutionary explanation This idea can be traced back at least as far as Darwin's Origin of Species 1859 In his discussion of plant domestication Darwin wrote I cannot doubt that the continued selection of slight variations either in the leaves the flowers or the fruit will produce races differing from each other chiefly in these characters Darwin was impressed by the success of plant breeders in moulding the growth and reproductive parameters of cultivated plants and believed that natural selection could have a similar impact in natural populations 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

*Ecology and Evolution of Flowers* Lawrence D. Harder, Spencer C.H. Barrett, 2006-11-30 Floral biology floral function sexual systems diversification *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 *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 [Understanding plant diversity and evolution in the mediterranean basin](#) Nico Cellinese, Božo Frajman, Andrew A Crowl, Gonzalo Nieto Feliner, 2023-04-28

**Reproductive Allocation in Plants** Edward Reekie, Fakhri A. Bazzaz, 2011-05-04 Much effort has been devoted to developing theories to explain the wide variation we observe in reproductive allocation among environments Reproductive Allocation in Plants describes why plants differ in the proportion of their resources that they allocate to reproduction and looks into the various theories This book examines the ecological and evolutionary explanations for variation in plant reproductive allocation from the perspective of the underlying physiological mechanisms controlling reproduction and growth An international team of leading experts have prepared chapters summarizing the current state of the field and offering their views on the factors determining reproductive allocation in plants This will be a valuable resource for senior undergraduate students graduate students and researchers in ecology plant ecophysiology and population biology 8 outstanding chapters dedicated to the evolution and ecology of variation in plant reproductive allocation Written by an international team of leading experts in the field Provides enough background information to make it accessible to senior undergraduate students Includes over 60 figures and 29 tables **The pollination of cultivated plants: A compendium for practitioners** Food and Agriculture Organization of the United Nations, 2018-10-15 More than twenty years ago the Food

and Agriculture Organization of the United Nations contributed to the growing recognition of the role of pollination in agricultural production with the publication of *The Pollination of Cultivated Plants in the Tropics* Since that time the appreciation of pollinators has grown alongside the realization that we stand to lose them But our knowledge and understanding of crop pollination pollinator biology and best management practices has also expanded over this time This volume is the first of two compendiums for practitioners sharing expert knowledge on all dimensions of crop pollination in both temperate and tropical zones The focus in this first volume is on applied crop and system specific pollination

**Floral Biology** David G. Lloyd, Spencer C.H. Barrett, 2012-12-06 Studies in floral biology are largely concerned with how flowers function to promote pollination and mating The role of pollination in governing mating patterns in plant populations inextricably links the evolution of pollination and mating systems Despite the close functional link between pollination and mating research conducted for most of this century on these two fundamental aspects of plant reproduction has taken quite separate courses This has resulted in surprisingly little cross fertilization between the fields of pollination biology on the one hand and plant mating system studies on the other The separation of the two areas has largely resulted from the different backgrounds and approaches adopted by workers in these fields Most pollination studies have been ecological in nature with a strong emphasis on field research and until recently few workers considered how the mechanics of pollen dispersal might influence mating patterns and individual plant fitness In contrast work on plant mating patterns has often been conducted in an ecological vacuum largely devoid of information on the environmental and demographic context in which mating occurs Mating system research has been dominated by population genetic and theoretical perspectives with surprisingly little consideration given to the proximate ecological factors responsible for causing a particular pattern of mating to occur

Floral Mimicry Steven D. Johnson, Florian P. Schiestl, 2016-11-03 Mimicry is a classic example of adaptation through natural selection The traditional focus of mimicry research has been on defence in animals but there is now also a highly developed and rapidly growing body of research on floral mimicry in plants This has coincided with a revolution in genomic tools making it possible to explore which genetic and developmental processes underlie the sometimes astonishing changes that give rise to floral mimicry Being literally rooted to one spot plants have to cajole animals into acting as couriers for their pollen Floral mimicry encompasses a set of evolutionary strategies whereby plants imitate the food sources oviposition sites or mating partners of animals in order to exploit them as pollinators This first definitive book on floral mimicry discusses the functions of visual olfactory and tactile signals integrating them into a broader theory of organismal mimicry that will help guide future research in the field It addresses the fundamental question of whether the evolutionary and ecological principles that were developed for protective mimicry in animals can also be applied to floral mimicry in plants The book also deals with the functions of floral rewardlessness a condition which often serves as a precursor to the evolution of mimicry in plant lineages The authors pay particular attention to the increasing body of research on chemical cues their molecular basis their

role in cognitive misclassification of flowers by pollinators and their implications for plant speciation Comprehensive in scope and conceptual in focus Floral Mimicry is primarily aimed at senior undergraduates graduate students and researchers in plant science and evolutionary biology 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 **Plant Variation and Evolution** David Briggs, S. Max

Walters, 2016-06-30 The long awaited fourth edition of a classic text now fully revised and updated for the molecular era

**Evolvability** Thomas F. Hansen, David Houle, Mihaela Pavlicev, Christophe Pélabon, 2023-06-27 Essays on evolvability from the perspectives of quantitative and population genetics evolutionary developmental biology systems biology macroevolution and the philosophy of science Evolvability the capability of organisms to evolve wasn't recognized as a fundamental concept in evolutionary theory until 1990 Though there is still some debate as to whether it represents a truly new concept the essays in this volume emphasize its value in enabling new research programs and facilitating communication among the major disciplines in evolutionary biology The contributors many of whom were instrumental in the development of the concept of evolvability synthesize what we have learned about it over the past thirty years They focus on the historical and philosophical contexts that influenced the emergence of the concept and suggest ways to develop a common language and theory to drive further evolvability research The essays drawn from a workshop on evolvability hosted in 2019-2020 by the Center of Advanced Study at the Norwegian Academy of Science and Letters in Oslo provide scientific and historical background on evolvability The contributors represent different disciplines of evolutionary biology including quantitative and population genetics evolutionary developmental biology systems biology and macroevolution as well as the philosophy of science This plurality of approaches allows researchers in disciplines as diverse as developmental biology molecular biology and systems biology to communicate with those working in mainstream evolutionary biology The contributors also discuss key questions at the forefront of research on evolvability Contributors J David Aponte W Scott Armbruster Geir H Bolstad Salom Bourg Ingo Brigandt Anne Calof James M Cheverud Josselin Clo Frietson Galis Mark Grabowski Rebecca Green Benedikt Hallgrímsson Thomas F Hansen Agnes Holstad David Houle David Jablonski Arthur Lander Arnaud LeRouzic Alan C Love Ralph Marcucio Michael B Morrissey Laura Nuño de la Rosa ystein H Opedal Mihaela Pavlicev Christophe Pélabon Jane M Reid Heather Richbourg Jacqueline L Szepeanacz Masahito Tsuboi Cristina Villegas Marta

Vidal Garcia Kjetil L Voje Andreas Wagner G nter P Wagner Nathan M Young      **Plant Invasions** Anna Traveset, David M. Richardson, 2020-11-20 There are many books on aspects of plant invasions but none that focus on the key role of species interactions in mediating invasions This book reviews exciting new findings and explores how new methods and tools are shedding new light on crucial processes in plant invasions This book will be of interest to academics and students of ecology researchers engaged in developing management solutions scientific managers of natural ecosystems and policy makers

**Invasion Dynamics** Cang Hui, David M. Richardson, 2017-02-15 Humans have moved organisms around the world for centuries but it is only relatively recently that invasion ecology has grown into a mainstream research field This book examines both the spread and impact dynamics of invasive species placing the science of invasion biology on a new more rigorous theoretical footing and proposing a concept of adaptive networks as the foundation for future research Biological invasions are considered not as simple actions of invaders and reactions of invaded ecosystems but as co evolving complex adaptive systems with emergent features of network complexity and invasibility Invasion Dynamics focuses on the ecology of invasive species and their impacts in recipient social ecological systems It discusses not only key advances and challenges within the traditional domain of invasion ecology but introduces approaches concepts and insights from many other disciplines such as complexity science systems science and ecology more broadly It will be of great value to invasion biologists analyzing spread and or impact dynamics as well as other ecologists interested in spread processes or habitat management

**Encyclopedia of Biodiversity, Revised Edition** Stanley Rice, 2020-06-01 Praise for the previous edition make s high level scientific concepts accessible to secondary students Library Journal clearly written and well organized School Library Journal Fulfilling educational benchmarks identified by the National Academy of Sciences this encyclopedia is an excellent choice for both public and academic libraries Recommended Choice a thorough and informative work provide s accessible information There is simply no other work that compares to this High school and public libraries will welcome such a well researched title Booklist The text is suitable for high school students but advanced enough for adult readers too presents important biodiversity topics a handy overview for term papers and class presentations Library Journal Biodiversity and ecology are founded in evolutionary science In order to understand why species of organisms occupy different parts of the world it is important to comprehend how they evolved Encyclopedia of Biodiversity Revised Edition examines this evolutionary framework with the help of more than 150 entries and five essays averaging at least 2 000 words each High school teachers can use these entries grouped by topic to meet many of the science education goals established by the National Academy of Sciences Written by a leading expert in the field this comprehensive full color encyclopedia makes information about groups of organisms from bacteria to mammals and about ecological concepts and processes such as biogeography and ecological succession clearly and readily available to students and the general public Tables at the end of each entry have a consistent structure allowing readers to see how environmental conditions and biodiversity have changed



through evolutionary time Entries include Acid rain and fog Biodiversity in the Jurassic period Darwin s finches Gal pagos Islands Peter and Rosemary Grant Life in bogs Natural selection Population genetics Seedless plants Tropical rainforests and deforestation Alfred Russel Wallace

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