

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 New Approaches

**Max K. Hecht, Ross J.
MacIntyre, Michael T. Clegg**



Ecology And Evolution Of Plant Reproduction New Approaches:

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.

Integrating Ecology and Evolution in a Spatial Context Jonathan Silvertown, Janis Antonovics, 2001-08 The profound consequences of the deceptively obvious statement that plants stand still but their genes don't are only just becoming clear. In this volume an international team of authors, experts in the field of population biology, aim to advance our understanding of ecological and evolutionary processes by integrating them within a common frame of reference space. Processes operating at three different spatial scales are examined: that of the population, metapopulation and the geographical range. Themes that recur at these different scales include spatial population dynamics, population genetics at boundaries, the imprint of spatial population dynamics upon genetic structure, adaptation, evolution of mating systems and the consequences of population genetics for ecological dynamics. Whilst the focus is largely on plants, the questions addressed are equally applicable to animals. It will be a valuable tool for researchers and advanced students not only in this field but also evolutionary biology and resource management.

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

Ecology and Evolution of Flowers, 2006-11-30 The reproductive organs and mating biology of angiosperms exhibit greater variety than those of any other group of organisms Flowers and inflorescences are also the most diverse structures produced by angiosperms and floral traits provide some of the most compelling examples of evolution by natural selection Given that flowering plants include roughly 250 000 species their reproductive diversity will not be explained easily by continued accumulation of case studies of individual species Instead a more strategic approach is now required which seeks to identify general principles concerning the role of ecological function in the evolution of reproductive diversity The Ecology and Evolution of Flowers uses this approach to expose new insights into the functional basis of floral diversity and presents the very latest theoretical and empirical research on floral evolution Floral biology is a dynamic and growing area and this book written by the leading internationally recognized researchers in this field reviews current progress in understanding the evolution and function of flowers Chapters contain both new research findings and synthesis Major sections in turn examine functional aspects of floral traits and sexual systems the ecological influences on reproductive adaptation and the role of floral biology in angiosperm diversification Overall this integrated treatment illustrates the role of floral function and evolution in the generation of angiosperm biodiversity This advanced textbook is suitable for graduate level students taking courses in plant ecology evolution systematics biodiversity and conservation It will also be of interest and use to a broader audience of plant scientists seeking an authoritative overview of recent advances in floral biology

Monocots: Systematics and Evolution Karen L Wilson, David A Morrison, 2000-05-19 Monocots Systematics and Evolution presents leading work from around the world on non grass monocotyledons and includes reviews and current research into their comparative biology phylogeny and classification The papers are based on presentations at the Second International Conference on the Comparative Biology of the Monocotyledons Monocots II held in Sydney Australia in late 1998 Many were subsequently updated or extended to take into account new information All 72 papers have been peer reviewed

The Anther William G. D'Arcy, 1996-03-07 Publisher Description

Homology Brian K. Hall, 2013-10-22 The application of homology varies depending on the data being examined This volume represents a state of the art treatment of the different applications of this unifying concept Chapters deal with homology on all levels from molecules to behavior and are authored by leading contributors to systematics natural history and evolutionary developmental and comparative biology This paperback reprint of the original hardbound edition continues to commemorate the 150th anniversary of Sir Richard Owen s seminal paper distinguishing homology from analogy Commemoration of the 150th anniversary of Sir Richard Owen s seminal paper distinguishing homology from analogy

Contributors who are renowned leaders in comparative biology Coverage that is both comprehensive and interdisciplinary

The Solitary Bees Bryan N. Danforth, Robert L. Minckley, John L. Neff, 2019-08-27 The most up to date and authoritative resource on the biology and evolution of solitary bees While social bees such as honey bees and bumble bees are familiar to most people they comprise less than 10 percent of all bee species in the world The vast majority of bees lead solitary lives surviving without the help of a hive and using their own resources to fend off danger and protect their offspring This book draws on new research to provide a comprehensive and authoritative overview of solitary bee biology offering an unparalleled look at these remarkable insects The Solitary Bees uses a modern phylogenetic framework to shed new light on the life histories and evolution of solitary bees It explains the foraging behavior of solitary bees their development and competitive mating tactics The book describes how they construct complex nests using an amazing variety of substrates and materials and how solitary bees have co-opted beneficial mites nematodes and fungi to provide safe environments for their brood It looks at how they have evolved intimate partnerships with flowering plants and examines their associations with predators parasites microbes and other bees This up to date synthesis of solitary bee biology is an essential resource for students and researchers one that paves the way for future scholarship on the subject Beautifully illustrated throughout The Solitary Bees also documents the critical role solitary bees play as crop pollinators and raises awareness of the dire threats they face from habitat loss and climate change to pesticides pathogens parasites and invasive species Molecular

Evolution and Adaptive Radiation Thomas J. Givnish, Kenneth J. Sytsma, 2000-05-08 This volume surveys advances in the study of adaptive radiation showing how molecular characters can be used to analyze the origin and pattern of diversification within a lineage in a non-circular fashion **Ecology Abstracts**, 2000 Coverage 1982 current updated monthly This database covers current ecology research across a wide range of disciplines reflecting recent advances in light of growing evidence regarding global environmental change and destruction Major areas of subject coverage include Algae lichens Animals Annelids Aquatic ecosystems Arachnids Arid zones Birds Brackish water Bryophytes pteridophytes Coastal ecosystems Conifers Conservation Control Crustaceans Ecosystem studies Fungi Grasses Grasslands High altitude environments Human ecology Insects Legumes Mammals Management Microorganisms Molluscs Nematodes Paleo ecology Plants Pollution studies Reptiles River basins Soil TAiga tundra Terrestrial ecosystems Vertebrates Wetlands Woodlands

The Importance of Species Peter Kareiva, Simon A. Levin, 2015-01-22 A great many species are threatened by the expanding human population Though the public generally favors environmental protection conservation does not come without sacrifice and cost Many decision makers wonder if every species is worth the trouble Of what consequence would the extinction of say spotted owls or snail darters be Are some species expendable Given the reality of limited money for conservation efforts there is a compelling need for scientists to help conservation practitioners set priorities and identify species most in need of urgent attention Ecology should be capable of providing guidance that goes beyond the obvious

impulse to protect economically valuable species salmon or aesthetically appealing ones snow leopards Although some recent books have considered the ecosystem services provided by biodiversity as an aggregate property this is the first to focus on the value of particular species It provides the scientific approaches and analyses available for asking what we can expect from losing or gaining species The contributors are outstanding ecologists theoreticians and evolutionary biologists who gathered for a symposium honoring Robert T Paine the community ecologist who experimentally demonstrated that a single predator species can act as a keystone species whose removal dramatically alters entire ecosystem communities They build on Paine's work here by exploring whether we can identify species that play key roles in ecosystems before they are lost forever These are some of our finest ecologists asking some of our hardest questions They are in addition to the editors S E B Abella G C Chang D Doak A L Downing W T Edmondson A S Flecker M J Ford C D G Harley E G Leigh Jr S Lubetkin S M Louda M Marvier P McElhany B A Menge W F Morris S Naeem S R Palumbi A G Power T A Rand R B Root M Ruckelshaus J Ruesink D E Schindler T W Schoener D Simberloff D A Spiller M J Wonham and J T Wootton

Plant Breeding Systems A. J. Richards, 1997 This illustrated text attempts to provide a unified and comprehensive coverage of plant breeding systems a subject vital to plant geneticists plant breeders taxonomists evolutionists and conservationists

Genetic control of self-incompatibility and reproductive development in flowering plants Elizabeth G. Williams, A.E. Clarke, R.B. Knox, 2013-03-09

Plant reproductive biology has undergone a revolution during the past five years with the cloning sequencing and localization of the genes important in reproduction These advantages in plant molecular biology have led to exciting applications in plant biotechnology including the genetic engineering of male sterility and other reproductive processes This book presents an interesting and contemporary account of these new developments from the scientists in whose laboratories they have been made The chapters focus on two areas the molecular biology of self incompatibility which is the system of self recognition controlled by the S gene and related genes and the cellular and molecular biology of pollen development and genetic dissection of male sterility Some chapters feature Arabidopsis with its unique genetic system Reproduction is vital for seed production in crop plants and this book presents new approaches to manipulate plant breeding systems for the 21st century

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

Evolutionary Biology Max K. Hecht, Ross J. MacIntyre, Michael T. Clegg, 2012-12-06 This volume is the twenty ninth in this series which includes twenty eight numbered volumes and one unnumbered supplement The editors continue to focus on critical reviews commentaries original papers and controversies in of the reviews range from anthropology to evolutionary biology The topics molecular evolution population biology to paleobiology Recent volumes have included a broad spectrum of chapters on such subjects as population biology comparative morphology paleobiology molecular phylogenetics developmental evolutionary biology systematics and the history of evolutionary biology The editors continue to solicit manuscripts in all areas of evolutionary biology Manuscripts should be sent to anyone of the following Max K Hecht Department of Biology Queens College of the City University of New York Flushing New York 11367 Ross J MacIntyre Department of Genetics and Development Cornell University Ithaca New York 14853 or Michael T Clegg Department of Botany and Plant Sciences University of California Riverside California 92521 vii Contents 1 Homology and Embryonic Development Brian K Hall Introduction 1 A Brief History of the Concept of Homology 1 von Baer s Laws 4 Germ Layers and Ernst Haeckel 6 Embryology and Homology 7 Homology An Unsolved Problem 8 Latent Homology 8 Serial Homology 9 Common Origins and Common Inductions 12 Mechanisms of Gastrulation 13 Origin of the Alimentary Canal 14 Origin of Germ Cells 14 Induction of Meckel s Cartilage 15 Induction of the Lens of the Eye 16 Development of Internal and External Cheek Pouches 18 Selection for Increased Tail Length in Mice 19 Regeneration and Homology 20 **The American**

Naturalist ,2007 **What a Bee Knows** Stephen L. Buchmann, 2023-03-07 For many of us the buzzing of a bee elicits panic But the next time you hear that low droning sound look closer the bee has navigated to this particular spot for a reason using a fascinating set of tools She may be using her sensitive olfactory organs which provide a 3D scent map of her surroundings She may be following visual landmarks or instructions relayed by a hive mate She may even be tracking electrostatic traces left on flowers by other bees What a Bee Knows Exploring the Thoughts Memories and Personalities of Bees invites us to follow bees mysterious paths and experience their alien world Although their brains are incredibly small just one million neurons compared to humans 100 billion bees have remarkable abilities to navigate learn communicate and remember In What a Bee Knows entomologist Stephen Buchmann explores a bee s way of seeing the world and introduces the scientists who make the journey possible We travel into the field and to the laboratories of noted bee biologists who have spent their careers digging into the questions most of us never thought to ask for example Do bees dream And if so why With each discovery Buchmann s insatiable curiosity and sense of wonder is infectious What a Bee Knows will challenge your idea of a bee s place in the world and perhaps our own This lively journey into a bee s mind reminds us that the world is more complex than our senses can tell us *Bee Pollination in Agricultural Ecosystems* Rosalind James, Theresa L.

Pitts-Singer, 2008-09-09 For many agricultural crops bees play a vital role as pollinators and this book discusses the interplay

among bees agriculture and the environment Although honey bees are well recognized as pollinators managed bumble bees and solitary bees are also critical for the successful pollination of certain crops while wild bees provide a free service As bees liberally pass pollen from one plant to the next they also impact the broader ecosystem and not always to the benefit of humankind Bees can enhance the unintentional spread of genes from genetically engineered plants and may increase the spread of invasive weeds Conversely genetically engineered plants can impact pollinators and invasive weeds can supply new sources of food for these insects Bees flower visiting activities also can be exploited to help spread biological control agents that control crop pests and they are important for native plant reproduction Managing bees for pollination is complex and the factors that must be taken into consideration are treated here including bee natural history physiology pathology and behavior Furthermore transporting bees from native ranges to new areas for pollination services can be controversial and needs to be done only after assuring that it will not disrupt various ecosystems Even though bees are small unobtrusive creatures they play large roles in the ecosystem The connection between bees and humankind also is symbolic of a broader interconnection between humans and the natural world

Pollination Biology Dharam P. Abrol, 2011-10-05 This book has a wider approach not strictly focused on crop production compared to other books that are strictly oriented towards bees but has a generalist approach to pollination biology It also highlights relationships between introduced and wild pollinators and consequences of such introductions on communities of wild pollinating insects The chapters on biochemical basis of plant pollination interaction pollination energetics climate change and pollinators and pollinators as bioindicators of ecosystem functioning provide a base for future insights into pollination biology The role of honeybees and wild bees on crop pollination value of bee pollination planned honeybee pollination non bee pollinators safety of pollinators pollination in cages pollination for hybrid seed production the problem of diseases genetically modified plants and bees the role of bees in improving food security and livelihoods capacity building and awareness for pollinators are also discussed

Cognitive Ecology of Pollination Lars Chittka, James D. Thomson, 2001-05-28 Important breakthroughs have recently been made in our understanding of the cognitive and sensory abilities of pollinators how pollinators perceive memorise and react to floral signals and rewards how they work flowers move among inflorescences and transport pollen These new findings have obvious implications for the evolution of floral display and diversity but most existing publications are scattered across a wide range of journals in very different research traditions This book brings together for the first time outstanding scholars from many different fields of pollination biology integrating the work of neuroethologists and evolutionary ecologists to present a multi disciplinary approach Aimed at graduates and researchers of behavioural and pollination ecology plant evolutionary biology and neuroethology it will also be a useful source of information for anyone interested in a modern view of cognitive and sensory ecology pollination and floral evolution

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