

Plant Reproductive Ecology

PATTERNS AND STRATEGIES

EDITED BY

Jon Lovett Doust & Lesley Lovett Doust

Plant Reproductive Ecology Patterns And Strategies

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Plant Reproductive Ecology Patterns And Strategies:

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 **Plant Reproductive**

Ecology Jon Lovett-Doust, Lesley Lovett Doust, 1990 **Reproductive Ecology of Flowering Plants: A Manual** K.R. Shivanna, Rajesh Tandon, 2014-09-01 Successful reproduction is the basis not only for the stability of the species in their natural habitat but also for productivity of our crop plants Therefore knowledge on reproductive ecology of wild and cultivated plants is important for effective management of our dwindling biodiversity and for the sustainability and improvement of the yield in crop species Conservation and management of our plant diversity is going to be a major challenge in the coming decades particularly in the tropical countries which are rich in biodiversity Reproductive failure is the main driver for pushing a large number of tropical species to vulnerable category Available data on reproductive ecology on tropical species is very limited and there is an urgent need to initiate research on these lines A major limitation for the beginners to take up research is the absence of simple concise work manuals that provide step wise procedures to study all aspects of reproductive ecology The Manual fills this void Over 60 protocols described in the manual cover the whole spectrum of reproductive ecology study sites and species phenology floral morphology and sexuality pollen and pistil biology pollination ecology breeding system seed biology seed dispersal and seedling recruitment Each chapter gives a concise conceptual account of the topic before describing the protocols The Manual caters to researchers teachers and students who are interested in any aspect of reproductive ecology of flowering plants botanists ecologists agri horticulturists foresters entomologists plant breeders and conservation biologists *Handbook of Functional Plant Ecology* Francisco

Pugnaire, Fernando Valladares, 1999-03-10 Offers the latest findings and research breakthroughs in plant ecology as well as consideration of classic topics in environmental science and ecology This wide ranging compendium serves as an extremely accessible and useful resource for relative newcomers to the field as well as seasoned experts Investigates plant structure and behavior across the ecological spectrum from the leaf to the ecosystem levels **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

Plant Resource Allocation Fakhri A. Bazzaz, John Grace, 1997-07-23 Plant Resource Allocation is an exploration of the latest insights into the theory and functioning of plant resource allocation An international team of physiological ecologists has prepared chapters devoted to the fundamental topics of resource allocation Comprehensive coverage of all aspects of resource allocation in plants All contributors are leaders in their respective fields *Reproductive Ecology of Flowering Plants: Patterns and Processes* Rajesh Tandon, K. R. Shivanna, Monika Koul, 2020-08-07 Sexual reproduction is the predominant mode of perpetuation for flowering plant species Investigating the reproductive strategies of plants has grown to become a vast area of research and in crop plants covers events from flowering to fruit and seed development in wild species it extends up to seed dispersal and seedling recruitment Thus reproduction determines the extent of yield in crop plants and in wild plants also determines the efficacy of recruiting new adults to the population making this field important both from fundamental and applied plant biology perspectives Moreover in light of the growing concerns regarding food and nutritional security for the growing population and preserving biological diversity reproductive biology of flowering plants has acquired special significance Extensive studies on various facets of reproduction are being carried out around the world However these studies are scattered across research journals and reviews from diverse areas of biology The present volume covers the whole spectrum of reproductive ecology from phenology and floral biology to sexuality and pollination biology ecology including floral rewards breeding systems apomixis and seed dispersal In turn transgene flow its biosafety and mitigation approaches and the global pollinator crisis which has become a major international concern in light of the urgent need to sustain crop yield and biodiversity are discussed in detail Given its scope the book offers a valuable resource for students teachers and researchers of botany zoology ecology agriculture and forestry as well as conservation biologists

Functional Plant Ecology Francisco Pugnaire, Fernando Valladares, 2007-06-20 Following in the footsteps of the successful first edition Functional Plant Ecology Second Edition remains the most authoritative resource in this multidisciplinary field Extensively revised and updated this book investigates plant structure and behavior across the

ecological spectrum It features the ecology and evolution of plant crowns and a **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 **The Natural History of Inbreeding and Outbreeding** Nancy Wilmsen Thornhill,1993-08-15

Inbreeding the mating of close kin and outbreeding the mating of distant relatives or unrelated organisms have long been important subjects to evolutionary biologists Inbreeding reduces genetic diversity in a population increasing the likelihood that genetic defects will become widespread and deprive a population of the diversity it may need to cope with its environment Most plants and animals have evolved behavioral and morphological mechanisms to avoid inbreeding However today many endangered species exist only in small very isolated populations where inbreeding is unavoidable so it has become a concern for conservationists In this volume twenty six experts in evolution behavior and genetics examine the causes and consequences of inbreeding The authors ask whether inbreeding is as problematic as biologists have thought under what ecological conditions inbreeding occurs and whether organisms that inbreed have mechanisms to dampen the anticipated problems of reduced genetic variation The studies including theoretical and empirical work on wild and captive populations demonstrate that many plants and animals inbreed to a greater extent than biologists have thought with variable effects on individual fitness Graduate students and researchers in evolutionary biology animal behavior ecology and conservation biology will welcome this wide ranging collection 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 *Gender and Sexual Dimorphism in Flowering Plants* Monica A. Geber, Todd E. Dawson, Lynda F. Delph, 2012-12-06 While the majority of flowering plant species are hermaphroditic gender dimorphism or the occurrence of two sexual morphs has nevertheless evolved on repeated occasions Gender dimorphism is found in nearly half of all angiosperm families and in approximately 10% of flowering plant species Where plants are dimorphic in gender they can also be dimorphic in secondary sex characters We refer to dimorphism of the latter kind as sexual dimorphism in keeping with the term's usage by most zoologists This book is about the evolution of both forms of dimorphism hence the book's lengthy title Gender dimorphism in plants has been an active topic of research from theoretical and empirical perspectives and has been the focus of several recent reviews and book chapters By contrast sexual dimorphism in plants is of the much less widely appreciated Indeed the last comprehensive review subject dates back to Lloyd and Webb's 1977 paper on Secondary Sex Characters We first spoke of editing a book on sexual dimorphism in Plants In addition when dimorphism in plants some people doubted that there was enough material to justify the effort We hope that this book not only provides an update to Lloyd and Webb's seminal work but also dispels doubts about the widespread nature of sexual dimorphism in plants We decided to combine reviews of both gender and sexual dimorphism in a single book because each form of dimorphism can provide the evolutionary impetus for the other **Arbuscular Mycorrhizas: Physiology and Function** Hinanit Koltai, Yoram Kapulnik, 2010-08-25 In the years since the first edition of *Arbuscular Mycorrhizas: Physiology and Function* was published an exceptional proliferation of interest in mycorrhizal biology has developed This has been associated with advances in different research disciplines such as genetics genomics proteomics metabolomics and physiology advances which have generated better insight into topics of mycorrhizal biology including the mechanisms of host mycorrhiza interactions pre and post penetration the influence of the symbiosis on the host and its surroundings and the evolution and diversity of mycorrhization It therefore became necessary to both update and expand the book's coverage in this its second edition **Angiosperm Pollen and Ovules** E. Ottaviano, D.L. Mulcahy, M. Sari Gorla, G. Bergamini Mulcahy, 2012-12-06 The subject of this volume is the reproductive biology of plants A steadily growing interest in this field is the result of at least two factors as pointed out with great foresight by one of the driving forces in the field H. E. Linskens Linskens 1964 most of the food consumed by humans takes the form of plant reproductive parts and molecular biology now provides powerful tools for investigating and manipulating plant reproductive systems Molecular biology and the allied discipline of biotechnology are solidly represented in the papers in this book The editors of *Angiosperm Pollen and Ovules* believe that the chapters herein contain some of the most exciting findings of contemporary biology and hope that the readers of this book will share their enthusiasm The editors express sincere and grateful thanks for help from Carla Fropa Enrico Pe and especially to Giorgio Binelli all of the University of Milan Without these three tireless and enthusiastic individuals it would not have been possible to maintain the apparently effortless proceeding of this congress We thank also

the organizing committee and the organizations that generously provided financial support both listed below Finally we extend thanks to M Cresti D Charlesworth D Hess E Hoekstra R Bruce Knox J P Mascarenhas M E Nasrallah P L Pfahler A Snow and M T M Willemse for chairing sessions

Forest Canopies Margaret Lowman,H. Bruce Rinker,2004-09 The treetops of the world s forests are where discovery and opportunity abound however they have been relatively inaccessible until recently This book represents an authoritative synthesis of data anecdotes case studies observations and recommendations from researchers and educators who have risked life and limb in their advocacy of the High Frontier With innovative rope techniques cranes walkways dirigibles and towers they finally gained access to the rich biodiversity that lives far above the forest floor and the emerging science of canopy ecology In this new edition of Forest Canopies nearly 60 scientists and educators from around the world look at the biodiversity ecology evolution and conservation of forest canopy ecosystems Comprehensive literature list State of the art results and data sets from current field work Foremost scientists in the field of canopy ecology Expanded collaboration of researchers and international projects User friendly format with sidebars and case studies Keywords and outlines for each chapter

Arbuscular Mycorrhizas Yoram Kapulnik,David D. Douds Jr.,2013-03-09 Recent years have brought an upsurge of interest in the study of arbuscular mycorrhizal AM fungi partly due to the realization that the effective utilization of these symbiotic soil fungi is likely to be essential in sustainable agriculture Impressive progress has been made during the last decade in the study of this symbiosis largely as a result of increasing exploitation of molecular tools Although early emphasis was placed on the use of molecular tools to study physiological processes triggered by the symbiosis such as expression of symbiosis specific polypeptides and modulation of host defences other applications await It was obvious to us that gathering leaders in the field to summarize these topics and point out research needs was necessary if we were to understand the physiology and function of AM fungi at a molecular level In addition we have taken the opportunity to present these reviews in a logical sequence of topics ranging from the initiation of the life cycle of the fungus to its functions in plant growth and in the below ground ecosystem It was a challenge to limit this flood of information to the confines of one text This is a very exciting time for mycorrhiza biologists and it is our hope that some of this excitement is conveyed to our readers

Trophic Cascades John Terborgh,James A Estes,2013-06-25 Trophic cascades the top down regulation of ecosystems by predators are an essential aspect of ecosystem function and well being Trophic cascades are often drastically disrupted by human interventions for example when wolves and cougars are removed allowing deer and beaver to become destructive yet have only recently begun to be considered in the development of conservation and management strategies Trophic Cascades is the first comprehensive presentation of the science on this subject It brings together some of the world s leading scientists and researchers to explain the importance of large animals in regulating ecosystems and to relate that scientific knowledge to practical conservation Chapters examine trophic cascades across the world s major biomes including intertidal habitats coastal oceans lakes nearshore ecosystems open oceans tropical

forests boreal and temperate ecosystems low arctic scrubland savannas and islands Additional chapters consider aboveground belowground linkages predation and ecosystem processes consumer control by megafauna and fire and alternative states in ecosystems An introductory chapter offers a concise overview of trophic cascades while concluding chapters consider theoretical perspectives and comparative issues Trophic Cascades provides a scientific basis and justification for the idea that large predators and top down forcing must be considered in conservation strategies alongside factors such as habitat preservation and invasive species It is a groundbreaking work for scientists and managers involved with biodiversity conservation and protection

Plant Allometry Karl J. Niklas, 1994-10-15 Allometry the study of the growth rate of an organism's parts in relation to the whole has produced exciting results in research on animals Now distinguished plant biologist Karl J. Niklas has written the first book to apply allometry to studies of the evolution morphology physiology and reproduction of plants Niklas covers a broad spectrum of plant life from unicellular algae to towering trees including fossil as well as extant taxa He examines the relation between organic size and variations in plant form metabolism reproduction and evolution and draws on the zoological literature to develop allometric techniques for the peculiar problems of plant height the relation between body mass and body length and size correlated variations in rates of growth For readers unfamiliar with the basics of allometry an appendix explains basic statistical methods For botanists interested in an original quantitative approach to plant evolution and function and for zoologists who want to learn more about the value of allometric techniques for studying evolution Plant Allometry makes a major contribution to the study of plant life

A Natural History of Families Scott Forbes, 2007-01-02 Why do baby sharks hyenas and pelicans kill their siblings Why do beetles and mice commit infanticide Why are twins and birth defects more common in older human mothers A Natural History of Families concisely examines what behavioral ecologists have discovered about family dynamics and what these insights might tell us about human biology and behavior Scott Forbes's engaging account describes an uneasy union among family members in which rivalry for resources often has dramatic and even fatal consequences In nature parents invest resources and control the allocation of resources among their offspring to perpetuate their genetic lineage Those families sometimes function as cooperative units the nepotistic and loving havens we choose to identify with In the natural world however dysfunctional familial behavior is disarmingly commonplace While explaining why infanticide fratricide and other seemingly antisocial behaviors are necessary Forbes also uncovers several surprising applications to humans Here the conflict begins in the moments following conception as embryos struggle to wrest control of pregnancy from the mother and to wring more nourishment from her than she can spare thus triggering morning sickness diabetes and high blood pressure Mothers in return often spontaneously abort embryos with severe genetic defects allowing for prenatal quality control of offspring Using a broad sweep of entertaining examples culled from the world of animals and humans A Natural History of Families is a lively introduction to the behavioral ecology of the family

Some Mathematical Questions in Biology--sex Allocation and Sex

Change Marc Mangel, 1990-10-26 The seven articles in this volume are based on lectures presented at the annual symposium Some Mathematical Questions in Biology held in conjunction with the American Institute of Biological Sciences meeting in Toronto Ontario in August 1989 Sexual selection sex determination and sex allocation have been at the center of evolutionary ecology since its inception and have played an important role in the development of many concepts As this volume demonstrates many key questions remain to be investigated through a combination of empirical and theoretical work In addition questions of sex provide a natural mechanism for crossing the great taxonomic divide by allowing plant and animal researchers to focus on similar kinds of questions using a wide variety of organisms

The Top Books of the Year Plant Reproductive Ecology Patterns And Strategies The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have charmed audiences this year. Plant Reproductive Ecology Patterns And Strategies : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Plant Reproductive Ecology Patterns And Strategies : Taylor Jenkins Reid's "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reid's absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens' "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and gripping novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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Plant Reproductive Ecology Patterns And Strategies Introduction

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