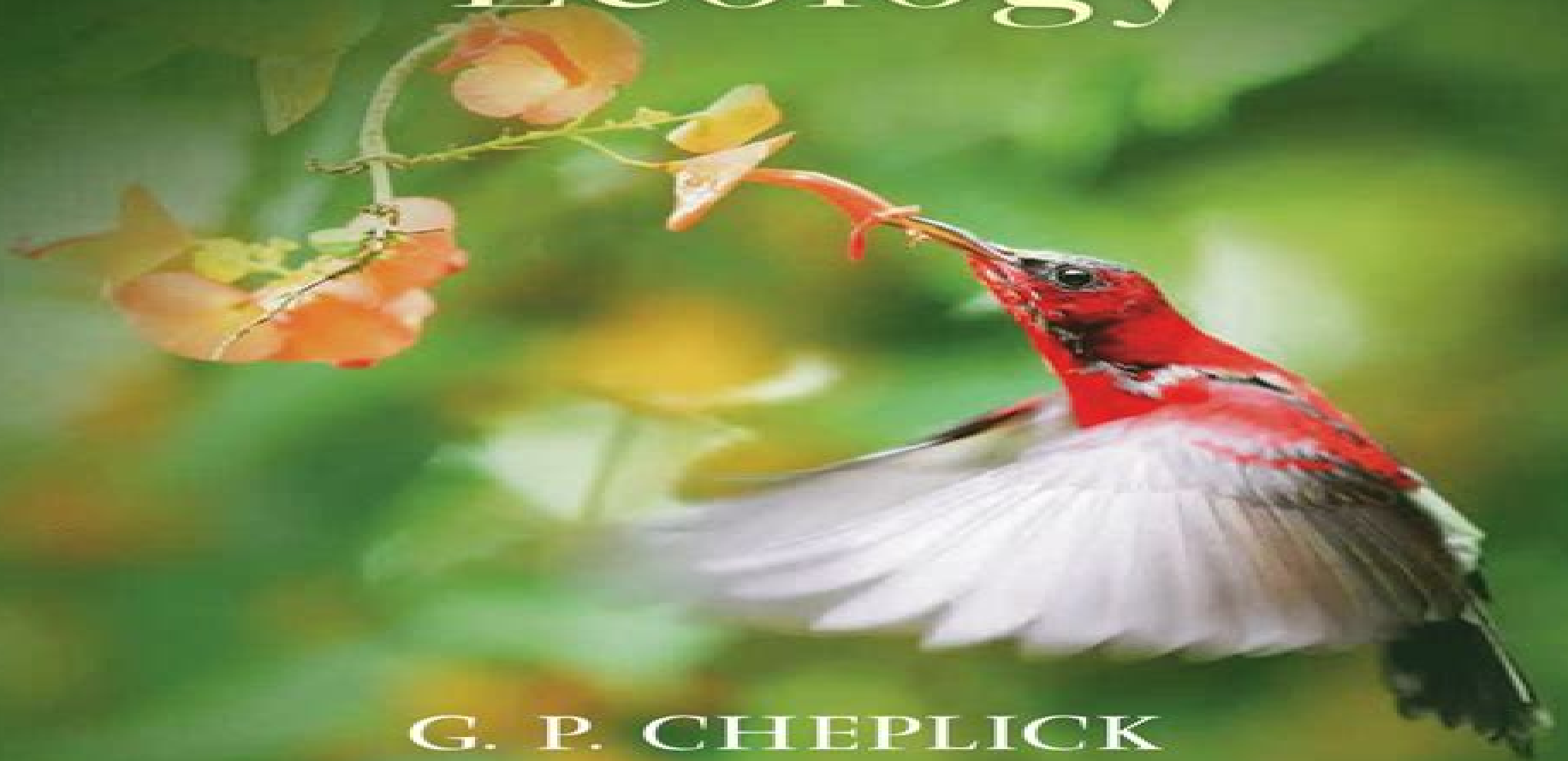


APPROACHES TO
Plant
Evolutionary
Ecology



G. P. CHEPLICK

Approaches To Plant Evolutionary Ecology

Andrew James Beattie



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Approaches to Plant Evolutionary Ecology Gregory Paul Cheplick, 2015 Plant evolutionary ecology is a rapidly growing discipline which emphasizes that populations adapt and evolve not in isolation but in relation to other species and abiotic environmental features such as climate. Although it departs from traditional evolutionary and ecological fields of study, the field is connected to branches of ecology, genetics, botany, conservation, and to a number of other fields of applied science primarily through shared concepts and techniques. However, most books regarding evolutionary ecology focus on animals, creating a substantial need for scholarly literature with an emphasis on plants. *Approaches to Plant Evolutionary Ecology* is the first book to specifically explore the evolutionary characteristics of plants, filling the aforementioned gap in the literature on evolutionary ecology. Renowned plant ecologist Gregory P. Cheplick summarizes and synthesizes much of the primary literature regarding evolutionary ecology, providing a historical context for the study of plant populations from an evolutionary perspective. The book also provides summaries of both traditional common gardens, reciprocal transplants, and modern molecular genetic approaches used to address questions about plant adaptation to a diverse group of abiotic and biotic factors. Cheplick provides a rigorously written introduction to the rapidly growing field of plant evolutionary ecology that will appeal to undergraduate and graduate students with an interest in ecology and evolution, as well as educators who are teaching courses on related topics.

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

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

Research Institute *The Evolutionary Ecology of Plant Disease* Gregory Gilbert, Ingrid Parker, 2023-06-19 Understanding the symbiosis between plants and pathogenic microbes is at the core of effective disease management for crops and managed forests At the same time plant pathogen interactions comprise a wonderfully diverse set of ecological relationships that are powerful and yet so commonplace that they often go unnoticed Ecologists and evolutionary biologists are increasingly exploring the terrain of plant disease ecology investigating topics such as how pathogens shape diversity in plant communities how features of plant microbe interactions including host range and mutualism antagonism evolve and how biological invasions climate change and other agents of global change can drive disease emergence Traditional training in ecology and evolutionary biology seldom provides structured exposure to plant pathology or microbiology and training in plant pathology rarely offers depth in the theoretical frameworks of evolutionary ecology or includes examples from complex wild ecosystems This novel textbook seeks to unite the research communities of plant disease ecology and plant pathology by bridging this gap **Evolutionary Ecology of Plant Reproductive Strategies** Thomas Johannes de Jong, Petrus Gerardus Leonardus Klinkhamer, 2005-10-13 This book places the wealth of data that have been collected on plants into the unifying framework of game theory **Methods in Comparative Plant Population Ecology** David J. Gibson, 2015 A user friendly introduction to the methodology of plant population ecology research **Biological Approaches and Evolutionary Trends in Plants** Shoichi Kawano, 2012-12-02 Biological Approaches and Evolutionary Trends in Plants is a collection of papers presented at the Fourth International Symposium of Plant Biosystematics held on July 10-14 1989 in Kyoto Japan Contributors some are world's leading plant biologists discuss the findings in evolutionary biology and issues in plant biosystematics in light of the evidence and ideas brought forward at various levels of biological organization from molecule to cell individual population species and community levels This volume is organized into four sections encompassing 22 chapters and begins with an overview of discoveries concerning parapatric differentiation of weed populations including adaptive evolution in herbicide resistant biotypes and complex evolutionary patterns in weed crop complexes of various groups The next section explores molecular approaches in plant biosystematics focusing on amino acid sequencing of proteins restriction site variations of cpDNA mtDNA rDNA etc and chromosome banding patterns revealed by differential staining The discussion shifts to a wave of research in plant population biology and evolutionary ecology since the 1970s and its impact on biology and biosystematics The book considers various aspects of reproductive biology and evolutionary changes in significant reproductive parameters and attempts to demographically quantify these parameters The final chapter is devoted to the use of functional phylogenetic systematics for predictive ecology This book will be of interest to plant biologists and scientists and researchers in fields such as biochemistry botany microbiology ecology and evolutionary biology

Frugivory and seed dispersal: ecological and evolutionary aspects T.H. Fleming, Alejandro Estrada, 2012-12-06 Any scientific discipline needs a theoretical framework to guide its development and to sharpen the questions its researchers

pursue In biology evolution is the grand theoretical framework and an historical perspective is necessary to understand present day biological conditions In its formative years the modern study of the fruit frugivore mutualism was guided by the specialist generalist paradigm developed by D Snow D McKey and H Howe Howe reviews the current status of this evolutionary paradigm and points out that it has been dismissed by many workers before being adequately tested This is because ecologists working with the tropical plants and frugivorous birds for which the paradigm was originally developed rarely measure the seed dispersal effectiveness of different disperser species He indicates that this paradigm still has heuristic value and suggests that several additional ecological paradigms including the concept of keystone species of plants and frugivores and the role that frugivores play in density dependent mortality in tropical trees are worth studying The concept of seed dispersal quality has been central to discussions of fruit frugivore coevolution Schupp thoroughly reviews data bearing on this concept constructs a hierarchical framework for viewing disperser effectiveness and points out that disperser effectiveness depends on both the quantity and quality of seed dispersal Effectiveness in turn affects both evolutionary and ecological relationships between dispersers and their food plants *The Evolutionary Ecology of Ant-Plant Mutualisms*

Andrew James Beattie, 1985-11-29 This important work explores the natural history experimental approach and integration of evolutionary and ecological literature of ant plant mutualisms **Frontiers in Ecology and Evolution 2020 Highlights**

Mark A. Elgar, 2021-02-26 If nothing else 2020 reminded us that whether we like it or not human society forms part of a broader ecological community that includes species with management challenges My experience in Melbourne highlighted how environmental threats to humanity are best managed when governments adopt evidence based strategies that might also require incentives for human cooperation Fundamental research ranging from quantitative natural history to broader insights about ecological and evolutionary processes invariably forms the backbone of such evidence The collection of papers in this 2020 Highlights eBook represents a sample of articles in Frontiers in Ecology and Evolution that contribute to our collective wisdom in the discipline and generated sizeable interest among our readers We hope you also find them interesting

Plant Animal Interactions Carlos M. Herrera, Olle Pellmyr, 2009-04-13 Interactions between plants and animals are incredibly diverse and complex and span terrestrial atmospheric and aquatic environments The last decade has seen the emergence of a vast quantity of data on the subject and there is now a perceived need among both teachers and undergraduate students for a new textbook that incorporates the numerous recent advances made in the field The book is intended for use by advanced level undergraduate and beginning graduate students taking related courses in wider ecology degree programmes Very few books cover this subject and those that do are out of date **Evolutionary Ecology** Charles W. Fox, Derek A. Roff, Daphne J. Fairbairn, 2001 This text unifies conceptual and empirical advances in evolutionary ecology and the focus is on current concepts in evolutionary ecology and the empirical study of these concepts The book is divided into five sections an overview of the major topics in evolutionary biology for ecologists sections on life histories behavior

coevolution and adaptation to anthropogenic change Midwest **Unity in Diversity: Reflections on Ecology after the Legacy of Ramon Margalef**, 2007 **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

Developmental Genetics and Plant Evolution Quentin C.B. Cronk, Richard M. Bateman, Julie A. Hawkins, 2004-01-29 A benchmark text *Developmental Genetics and Plant Evolution* integrates the recent revolution in the molecular developmental genetics of plants with mainstream evolutionary thought It reflects the increasing cooperation between strongly genomics influenced researchers with their strong grasp of technology and evolutionary morphogenetists and sys **Quantitative**

Genetics in the Wild Anne Charmantier, Dany Garant, Loeske E. B. Kruuk, 2014 This book gathers the expertise of 30 evolutionary biologists from around the globe to highlight how applying the field of quantitative genetics the analysis of the genetic basis of complex traits aids in the study of wild populations *Introduction to Plant Population Biology* Jonathan Silvertown, Deborah Charlesworth, 2009-04-01 This completely revised fourth edition of *Introduction to Plant Population Biology* continues the approach taken by its highly successful predecessors Ecological and genetic principles are introduced and theory is made accessible by clear accurate exposition with plentiful examples Models and theoretical arguments are developed gradually requiring a minimum of mathematics The book emphasizes the particular characteristics of plants that affect their population biology and evolutionary questions that are particularly relevant for plants Wherever appropriate it is shown how ecology and genetics interact presenting a rounded picture of the population biology of plants Topics covered include variation and its inheritance genetic markers including molecular markers plant breeding systems ecological genetics intraspecific interactions population dynamics regional dynamics and metapopulations competition and coexistence and the evolution of breeding systems and life history An extensive bibliography provides access to the recent literature that will be invaluable to students and academics alike Effective integration of plant population ecology population genetics and evolutionary biology The new edition is thoroughly revised and now includes molecular techniques The genetics chapters have been completely rewritten by a new co author Deborah Charlesworth *Evolutionary Ecology* British Ecological Society. Symposium, 1984 *Plant Communication from an Ecological Perspective* František Baluška, Velemir

Ninkovic, 2010-08-05 Since the concept of allelopathy was introduced almost 100 years ago research has led to an understanding that plants are involved in complex communicative interactions They use a battery of different signals that convey plant relevant information within plant individuals as well as between plants of the same species or different species The 13 chapters of this volume discuss all these topics from an ecological perspective Communication between plants allows them to share physiological and ecological information relevant for their survival and fitness It is obvious that in these very early days of ecological plant communication research we are illuminating only the tip of iceberg of the communicative

nature of higher plants Nevertheless knowledge on the identity and informative value of volatiles used by plants for communication is increasing with breath taking speed Among the most spectacular examples are situations where plant emitters warn neighbours about a danger increasing their innate immunity or when herbivore attacked plants attract the enemies of the herbivores cry for help and plant bodyguards concepts It is becoming obvious that plants use not only volatile signals but also diverse water soluble molecules in the case of plant roots to safeguard their evolutionary success and accomplish self non self kin recognition Importantly as with all the examples of biocommunication irrespective of whether signals and signs are transmitted via physical or chemical pathways plant communication is a rule governed and sign mediated process

Plant Functional Traits Manoj Kumar,Rainer W Bussmann,Nathan G Swenson,2025-02-15 Plant Function Traits Linking Climate and Ecosystem Functioning part of the Plant Biology Sustainability and Climate Change series presents a wholistic understanding of Plant Functional Traits As global climate change advances natural resources are facing increasing survival challenges hence this book directly addresses that need exploring the morphological physiological and phenological properties of a plant that can be used as a proxy to understand plant environment interactions Users will find great illustrations throughout individual chapters along with case studies that demonstrate applications of functional traits in classifying vegetation of a region into distinct type groups as Plant Functional Types PFTs Additional information includes applications in the development of new generation of Dynamic Global Vegetation Model DGVM and an understanding of the response of vegetation to changing environments Presents foundational insights into multiple functional trait axes Describes the quantification of functional traits from individuals to regions Includes the role of functional traits in developing new vegetation models for assessing the impact of climate change on plants

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