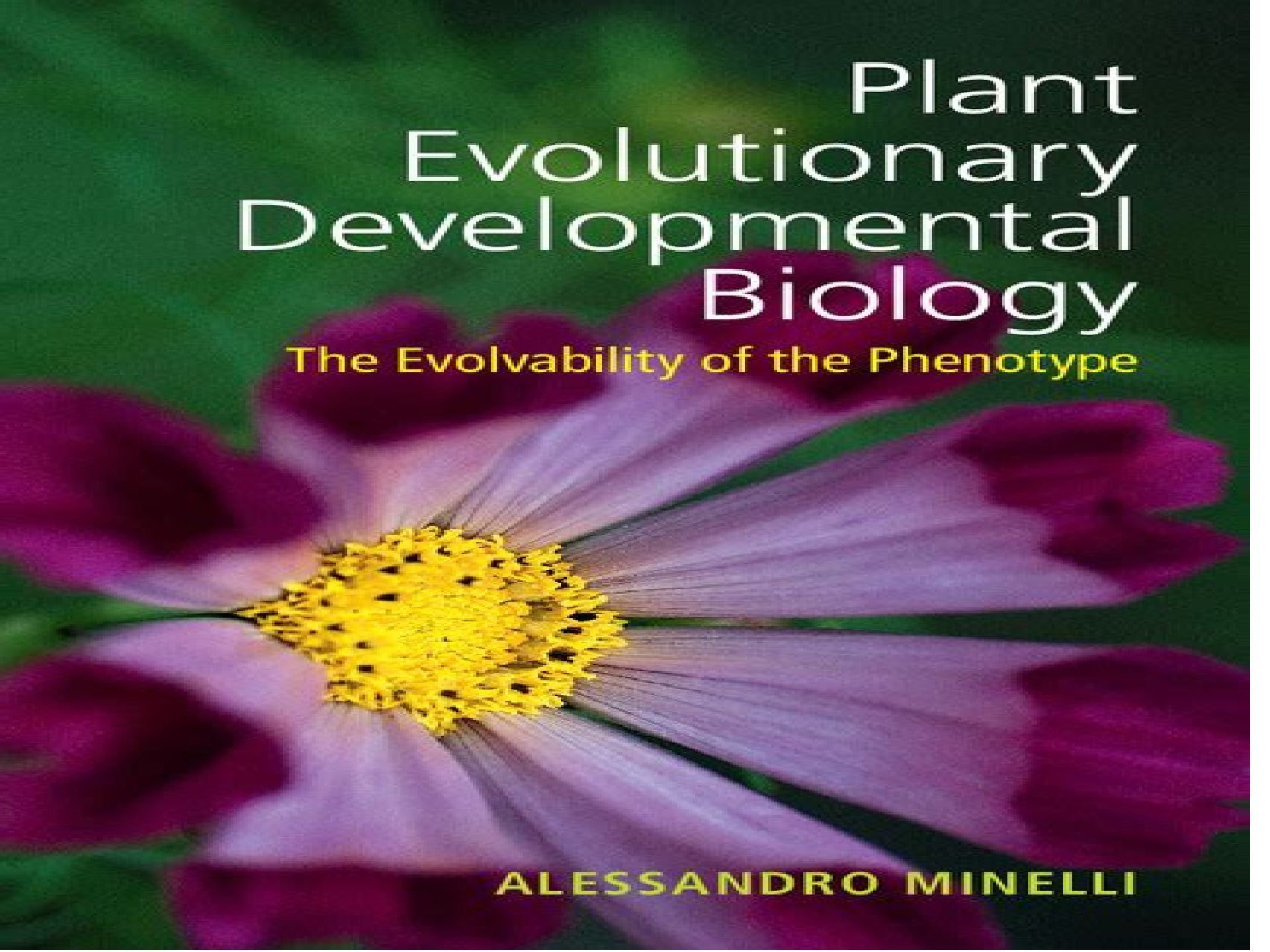




Plant Evolutionary Developmental Biology

The Evolvability of the Phenotype

ALESSANDRO MINELLI

Plant Evolutionary Biology

**Juan Núñez-Farfán, Pedro Luis
Valverde**



Plant Evolutionary Biology:

Plant Evolution Karl J. Niklas, 2016-08-12 Although plants comprise more than 90% of all visible life and land plants and algae collectively make up the most morphologically physiologically and ecologically diverse group of organisms on earth books on evolution instead tend to focus on animals This organismal bias has led to an incomplete and often erroneous understanding of evolutionary theory Because plants grow and reproduce differently than animals they have evolved differently and generally accepted evolutionary views as for example the standard models of speciation often fail to hold when applied to them Tapping such wide ranging topics as genetics gene regulatory networks phenotype mapping and multicellularity as well as paleobotany Karl J Niklas s *Plant Evolution* offers fresh insight into these differences Following up on his landmark book *The Evolutionary Biology of Plants* in which he drew on cutting edge computer simulations that used plants as models to illuminate key evolutionary theories Niklas incorporates data from more than a decade of new research in the flourishing field of molecular biology conveying not only why the study of evolution is so important but also why the study of plants is essential to our understanding of evolutionary processes Niklas shows us that investigating the intricacies of plant development the diversification of early vascular land plants and larger patterns in plant evolution is not just a botanical pursuit it is vital to our comprehension of the history of all life on this green planet **Plant Evolutionary Biology**

L. Gottlieb, 2012-12-06 There are still heroes in science They are recognized because the issues and problems they chose to study became the issues and problems of a major field of research They are also recognized because their insights and solutions are the ones that are tested and evaluated when new ideas and technologies become available In the field of plant evolutionary biology the hero is George Ledyard Stebbins His first scientific publication appeared in 1929 and has been followed by nearly 60 magnificent years of seminal ideas proofs and proposals that defined much of what was worth doing in plant biosystematics evolution and biological conservation His energy enthusiasm and good humor widely shared at many congresses and symposia in the Singalongs with Stebbins made him a wonderful teacher for both undergraduates and graduate students He is the mentor of several generations of botanists plant geneticists and evolutionists A brief biography and publication list were included in *Topics in Plant Population Biology* edited by Otto T Solbrig Subodh Jain George Johnson and Peter Raven Columbia University Press 1979 which resulted from a symposium held on the occasion of Ledyard Stebbins 70th birthday In this volume population biology and physiological ecology received major attention particularly in relation to plant form and function *The Evolutionary Biology of Plants* Karl J. Niklas, 1997-06-08 Provides a comprehensive synthesis of modern evolutionary biology as it relates to plants This text recounts the saga of plant life from its origins to the radiation of the flowering plants Through computer generated walks it shows how living plants might have evolved

Plant Evolutionary Biology L. Gottlieb, 1988-07-07 **Molecular Systematics and Plant Evolution** Peter M.

Hollingsworth, Richard M. Bateman, Richard J. Gornall, 1999-08-19 *Molecular Systematics and Plant Evolution* discusses the

diversity and evolution of plants with a molecular approach It looks at population genetics phylogeny history of evolution and developmental genetics to provide a framework from which to understand evolutionary patterns and relationships amongst plants The international panel of contributors are all respected systematists and evolutionary biologists who have brought together a wide range of topics from the forefront of research while keeping the text accessible to students It has been written for senior undergraduates postgraduates and researchers in the fields of botany systematics population conservation genetics phylogenetics and evolutionary biology

Plant Evolutionary Developmental Biology Alessandro Minelli, 2018-03 Integrates molecular genetics with comparative morphology to give a comprehensive view of the evolution of plant development

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

Ecology and Evolutionary Biology of Clonal Plants Josef F. Stuefer, 2002-07-31 Proceedings of Clone 2000 an International Workshop held in Obergurgl Austria 20-25 August 2000

Diversity and Evolutionary Biology of Tropical Flowers Peter K. Endress, 1996-07-25 A unique account of the structure biology and evolution of tropical flowering plants

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.

Plant Evolution in the Mediterranean John D. Thompson, 2005. *Plant Evolution in the Mediterranean* is an account of plant evolutionary ecology. The central theme is differentiation both among and within species in the flora of the Mediterranean basin. Provided by publisher, *Ecology and Evolutionary Biology of Clonal Plants*, 2001.

Plant Molecular Evolution J.J. Doyle, Brandon S. Gaut, 2000-02-29. Plant molecular biology has produced an ever increasing flood of data about genes and genomes. Evolutionary biology and systematics provides the context for synthesizing this information. This book brings together contributions from evolutionary biologists, systematists, developmental geneticists, biochemists and others working on diverse aspects of plant biology whose work touches to varying degrees on plant molecular evolution. The book is organized in three parts, the first of which introduces broad topics in evolutionary biology and summarizes advances in plant molecular phylogenetics with emphasis on model plant systems. The second segment presents a series of case studies of gene family evolution while the third gives overviews of the evolution of important plant processes such as disease resistance, nodulation, hybridization, transposable elements and genome evolution and polyploidy.

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 Biology: Exobiology and Evolutionary Mechanisms* Pierre Pontarotti, 2013-07-03 This book presents 19 selected contributions to the 16th Evolutionary Biology Meeting which took place in September 2012 in Marseilles The aims of these annual meetings which gather together leading evolutionary biologists and other scientists are to promote the exchange of ideas and to encourage interdisciplinary collaborations The first chapter deals with the history of a great discovery The first experiments on ascidian and sea urchin egg fertilization The remaining contributions are grouped under the following categories Evolutionary biology concepts Exobiology and the origin of life Evolutionary mechanisms Offering an up to date overview of recent findings in the field of evolutionary biology this book is an invaluable source of information for scientists teachers and advanced students

Plant Variation and Evolution David Briggs, Stuart Max Walters, 1997-11-13 Considers how the study of variation in plants has developed over the last 300 years **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 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 **Plant Development and Evolution**, 2019-01-04 Plant Development and Evolution the latest release in the Current Topics in Developmental Biology series highlights new advances in the field with this new volume presenting interesting chapters on the Evolution of the plant body plan Lateral root development and its role in evolutionary adaptation the Development of the vascular system the Development of the shoot apical meristem and phyllotaxis the Evolution of leaf diversity the Evolution of regulatory networks in land plants The role of programmed cell death in plant development the Development and evolution of inflorescence architecture the Molecular regulation of flower development the Pre meiotic another development and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Current Topics in Developmental Biology series Updated release includes the latest information on Plant Development and Evolution

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Plant Evolutionary Biology Introduction

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