

*Oxford Series in Ecology and Evolution*

# Natural Hybridization and Evolution

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Michael L. Arnold

# Natural Hybridization And Evolution

**JA Banks**



## **Natural Hybridization And Evolution:**

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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 Evolution

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Uyenoyama, 2004-01-15 This 2004 collection of essays deals with the foundation and historical development of population biology and its relationship to population genetics and population ecology on the one hand and to the rapidly growing fields of molecular quantitative genetics genomics and bioinformatics on the other Such an interdisciplinary treatment of population biology has never been attempted before The volume is set in a historical context but it has an up to date coverage of material in various related fields The areas covered are the foundation of population biology life history evolution and demography density and frequency dependent selection recent advances in quantitative genetics and bioinformatics

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leading to the final solution of some problems concerning the homology and evolution of reproductive organs in plants

**Ecological Genetics** Andrew Lowe, Stephen Harris, Paul Ashton, 2009-04-01 Ecological Genetics addresses the fundamental problems of which of the many molecular markers should be used and how the resulting data should be analysed in clear accessible language suitable for upper level undergraduates through to research level professionals A very accessible straightforward text to deal with this difficult topic applying modern molecular techniques to ecological processes Written by active researchers and teachers within the field There will be an accompanying web site managed by the authors comprising of worked examples test data sets and hyperlinks to relevant web pages **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 Endless Forms Daniel J. Howard, Stewart H. Berlocher, 1998 Speciation is one of the great themes of evolutionary biology It is the process through which new species are born and diversity generated Yet for many years our understanding of the process consisted of little more than a perception that if populations are isolated geographically they will diverge genetically and may come to form new species This situation began to change in the 1960s as an increasing number of biologists challenged the exclusivity of allopatric speciation and began to probe more deeply into the actual process by which divergence occurs and reproductive isolation is acquired This focus on process led to many new insights but numerous questions remain and speciation is now one of the most dynamic areas of research in modern evolutionary biology This volume presents the newest research findings on speciation bringing readers up to day on species concepts modes of speciation and the nature of reproductive barriers It also

discusses the forces that drive divergence of populations the genetic control of reproductive isolation and the role played by hybrid zones and hybridization in speciation

**Specialization, Speciation, and Radiation** Kelley Jean Tilmon, 2008 This volume captures the state of the art in the study of insect plant interactions and marks the transformation of the field into evolutionary biology The contributors present integrative reviews of uniformly high quality that will inform and inspire generations of academic and applied biologists Their presentation together provides an invaluable synthesis of perspectives that is rare in any discipline Brian D Farrell Professor of Organismic and Evolutionary Biology Harvard University Tilmon has assembled a truly wonderful and rich volume with contributions from the lion s share of fine minds in evolution and ecology of herbivorous insects The topics comprise a fascinating and deep coverage of what has been discovered in the prolific recent decades of research with insects on plants Fascinating chapters provide deep analyses of some of the most interesting research on these interactions From insect plant chemistry behavior and host shifting to phylogenetics co evolution life history evolution and invasive plant insect interaction one is hard pressed to name a substantial topic not included This volume will launch a hundred graduate seminars and find itself on the shelf of everyone who is anyone working in this rich landscape of disciplines Donald R Strong Professor of Evolution and Ecology University of California Davis Seldom have so many excellent authors been brought together to write so many good chapters on so many important topics in organismic evolutionary biology Tom Wood always unassuming and inspired by living nature would have been amazed and pleased by this tribute Mary Jane West Eberhard Smithsonian Tropical Research Institute

**Molecular Approaches in Natural Resource Conservation and Management** J. Andrew DeWoody, 2010-06-14 Intended for undergraduate and graduate students in conservation biology natural resource management and ecology this book compiles compelling case histories in molecular ecology

Ecology and Evolution of Poeciliid Fishes Jonathan P. Evans, Andrea Pilastro, Ingo Schlupp, 2011-09-26 The history of biology is populated by numerous model species or organisms But few vertebrate groups have aided evolutionary and ecological research more than the live bearing fishes of the family Poeciliidae Found throughout tropical and subtropical waters poeciliids exhibit a fascinating variety of reproductive specializations including viviparity matrotrophy unisexual reproduction and alternative mating strategies making them ideal models for research on patterns and processes in ecology behavior and evolution Ecology and Evolution of Poeciliid Fishes is a much needed overview of the scientific potential and understanding of these live bearing fishes Chapters by leading researchers take up a wide range of topics including the evolution of unisexual reproduction life in extreme environments life history evolution and genetics Designed to provide a single and highly approachable reference Ecology and Evolution of Poeciliid Fishes will appeal to students and specialists interested in all aspects of evolutionary ecology

**Divergence with Genetic Exchange** Michael Lynn Arnold, 2016 This book is an investigation into processes associated with evolutionary divergence and diversification focussing on the role played by the exchange of genes between divergent lineages

*Evolutionary Biology* Mitchell B.

Cruzan, 2018-09-11 Many of the characteristics that distinguish plants from other living organisms can be traced to their origin early in the history of life. Features such as a multicellular haploid life stage, prevalent hermaphroditism, self-fertilization, and general dependence on biotic and abiotic vectors for reproduction stem directly from the ability of plants to obtain energy from the sun. This novel mode of energy capture had far-ranging implications for plant evolution. It not only fueled the tremendous diversification of life on Earth but also had far-ranging implications for the evolution of early photosynthetic organisms and eventually land plants. Understanding the evolutionary processes for the proliferation and diversification of plants requires an appreciation of their unique biological features. While the processes of mutation, selection, genetic drift, and gene flow are the same for both plants and animals, there are specific characteristics of plants that affect their evolution. Unique traits of plants affect everything from the fate of mutations to exposure to selection in the haploid life stage to the distribution of genetic variation within and among populations and ultimately the rates and patterns of diversification. This book examines the origins of the unique features of plants and the implications of these features for evolutionary processes. Author Mitchell B. Cruzan provides discussion of contemporary topics such as population genetics, phylogeography, phylogenetics, ecological genetics, and genomics. The content covered is essential to a wide range of advanced courses in plant biology.

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