



# A Primer of Ecological Genetics

Jeffrey K. Conner • Daniel L. Hartl

# A Primer Of Ecological Genetics

**Trevor Beebee, Graham Rowe**



## **A Primer Of Ecological Genetics:**

**A Primer of Ecological Genetics** Jeffrey K. Conner, Daniel L Hartl, 2004      **A Primer of Ecological Aquaculture** Dietmar Kültz, 2022 A concise primer that introduces students to the basic concepts opportunities and challenges of aquaculture with an emphasis on ecological considerations providing a critical assessment of current aquaculture practices from a broad interdisciplinary perspective      **California Grasslands** Mark R. Stromberg, Jeffrey D. Corbin, Carla D'Antonio, 2007-12-03 This highly synthetic and scholarly work brings together new and important scientific contributions by leading experts on a rich diversity of topics concerning the history ecology and conservation of California's endangered grasslands The editors and authors have succeeded admirably in drawing from a great wealth of recent research to produce a widely accessible and compelling state of the art treatment of this fascinating subject Anyone interested in Californian biodiversity or grassland ecosystems in general will find this book to be an invaluable resource and a major inspiration for further research management and restoration efforts Bruce G Baldwin W L Jepson Professor and Curator UC Berkeley Grasses and grasslands are among the most important elements of the California landscape This is their book embodying the kind of integrated view needed for all ecological communities in California Approaches ranging across an incredibly broad spectrum paleontology and human history basic science and practical management techniques systematics community ecology physiology and genetics physical factors such as water soil nutrients atmospheric and fire biological factors such as competition symbiosis and grazing are nicely tied together due to careful editorial work This is an indispensable reference for everyone interested in the California environment Brent Mishler Director of the University Jepson Herbaria and Professor of Integrative Biology UC Berkeley The structure and function of California grasslands have intrigued ecologists for decades The editors of this volume have assembled a comprehensive set of reviews by a group of outstanding authors on the natural history structure management and restoration of this economically and ecologically important ecosystem Scott L Collins Professor of Biology University of New Mexico      **A Primer of Population Genetics and Genomics** Daniel L. Hartl, 2020 This accessible primer has been completely revised and updated to provide a concise but comprehensive introduction to the basic concepts of population genetics and genomics      *A Primer of Molecular Population Genetics* Asher D. Cutter, 2019 What are the genomic signatures of adaptations in DNA How often does natural selection dictate changes to DNA How does the ebb and flow in the abundance of individuals over time get marked onto chromosomes to record genetic history Molecular population genetics seeks to answer such questions by explaining genetic variation and molecular evolution from micro evolutionary principles It provides a way to learn about how evolution works and how it shapes species by incorporating molecular details of DNA as the heritable material It enables us to understand the logic of how mutations originate change in abundance in populations and become fixed as DNA sequence divergence between species With the revolutionary advances in genomic data acquisition understanding molecular population genetics is now a fundamental

requirement for today's life scientists. These concepts apply in analysis of personal genomics, genome-wide association studies, landscape and conservation genetics, forensics, molecular anthropology, and selection scans. This book introduces in an accessible way the bare essentials of the theory and practice of molecular population genetics. [An Introduction to Molecular Ecology](#) Graham Rowe, Michael Sweet, Trevor John Clark Beebe, 2017. Revised edition of Introduction to molecular ecology. Trevor J. C. Beebe, Graham Rowe, 2008. 2nd ed. **An Introduction to Molecular Ecology** Trevor Beebe, Graham Rowe, 2008. How do we know whether a particular species is monogamous or promiscuous? How can we monitor the illegal trafficking of wildlife? How can we differentiate between the many similar species making up a microbial community? An Introduction to Molecular Ecology introduces the latest molecular concepts and techniques demonstrating how genetic markers and molecular tools can be used to answer such ecological questions. Such questions, whose answers were previously out of our reach, can now be probed, thereby revolutionizing our understanding of ecological systems and phenomena. Blending conceptual detail with the most instructive examples, An Introduction to Molecular Ecology is an ideal resource for those new to the subject needing to develop a strong working understanding of the field. The book captures the broad scope of the subject, exploring the use of molecular tools in the context of topics including behavioral genetics, phylogeography, microbial ecology, and conservation. Features: Demonstrates the power of molecular ecology as a research tool in a style ideally suited for an undergraduate audience. Uses practical examples to demonstrate the latest methods and concepts rather than relying exclusively on theoretical models. Blends factual content with tools for active learning. **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 worked examples, test data sets, and hyperlinks to relevant web pages. *The Princeton Guide to Ecology* Simon A. Levin, Stephen R. Carpenter, H. Charles J. Godfray, Ann P. Kinzig, Michel Loreau, Jonathan B. Losos, Brian Walker, David S. Wilcove, 2012-09-30. The Princeton Guide to Ecology is a concise, authoritative one-volume reference to the field's major subjects and key concepts. Edited by eminent ecologist Simon Levin, with contributions from an international team of leading ecologists, the book contains more than ninety clear, accurate, and up-to-date articles on the most important topics within seven major areas: autecology, population ecology, communities and ecosystems, landscapes and the biosphere, conservation biology, ecosystem services, and biosphere management. Complete with more than 200 illustrations, including sixteen pages in color, a glossary of key terms, a chronology of milestones in the field, suggestions for further reading on each topic, and an index, this is an essential volume for undergraduate and graduate students, research ecologists, scientists in related fields, policymakers, and

anyone else with a serious interest in ecology Explains key topics in one concise and authoritative volume Features more than ninety articles written by an international team of leading ecologists Contains more than 200 illustrations including sixteen pages in color Includes glossary chronology suggestions for further reading and index Covers autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management

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

**Proceedings of the XII International Symposium on Biological Control of Weeds** M. H. Julien, Rene Sforza, M. C. Bon, H. C. Evans, P. E. Hatcher, 2008 These proceedings contain the full length papers and abstracts of papers presented at the symposium Subjects covered include ecology and modelling in biological control of weeds benefits risks and cost analysis of biological weed control target and biological control agent selection pre release specificity and efficacy testing regulations and public awareness evolutionary processes opportunities and constraints for the biological control of weeds in Europe release activities and post release evaluations and management specifics integration restoration and implementation

*The Ecology of Plant Secondary Metabolites* Glenn R. Iason, Marcel Dicke, Sue E. Hartley, 2012-04-19 Provides a state of the art review of recent conceptual developments concerning the roles of plant secondary metabolites in the natural environment

Post-Genome Biology of Primates Hirohisa Hirai, Hiroo Imai, Yasuhiro Go, 2012-04-23 In 2001 first reports of the human draft genome were published Since then genomes of many other organisms have been sequenced including several primate species the chimpanzee rhesus macaque gorilla orangutan gibbon baboon marmoset tarsier galago lemur and more recently Neanderthals In a new era of post genome biology scientists now have the vast amount of information revealed by genome research to confront one of the most challenging fundamental questions in

primatology and anthropology What makes us human This volume comprises a collection of articles on a variety of topics relevant to primate genomes including evolution human origins genome structure chromosome genomics and bioinformatics The book covers the cutting edge research in molecular primatology and provides great insights into the functional diversity of primates This valuable collection will benefit researchers and students including primatologists anthropologists molecular biologists evolutionary biologists and animal behaviorists

**Biodiversity** Edmundas Lekevičius, 2022-09-20 Species are not functionally independent From a long term perspective only ecosystem with a fully integrated nutrient cycle is alive The lack of trophic autonomy should be considered one of the key factors that ensure and maintain biodiversity The variability of abiotic conditions both in space and in time also creates a huge diversity of niches and subniches for genotypes and species In addition life maintains its essential variables biomass and productivity as stable as possible due to the diversity of structures genes macromolecules metabolic pathways genotypes species etc the structures that reach optima are multiplied and thus activated while the functioning of those which lost their optima is suppressed The facts and concepts presented in this monograph thus support the conclusions that a genotype and species diversity is supported by trophic specialisation b biodiversity helps to stabilise the functions essential variables of individuals populations and ecological communities c in evolution the emergence of biodiversity is determined by heritable variation and the advantage of specialised more effective structures over non specialised ones d biodiversity is characterised by its ability to increase itself and to organise itself into relatively consistent structures which we call production pyramids and nutrient cycles This book therefore provides an answer to the question why the diversity of life is of such and such a nature

**Evolutionary Biology: Mechanisms and Trends** Pierre Pontarotti, 2012-09-14 The annual Evolutionary Biology Meetings in Marseilles serve to gather leading evolutionary biologists and other scientists using evolutionary biology concepts e g for medical research The aims of these meetings are to promote the exchange of ideas and to encourage interdisciplinary collaborations This book collects 19 selected contributions presented at the 15th meeting which took place in September 2011 It starts with a description of the life and work of J B S Haldane a remarkable evolutionary biologist of the 20th century The remaining chapters are grouped under the following three themes New Concepts in Evolutionary Biology Macroevolution Mechanisms and Trends Genome Evolution Offering an up to date overview of recent results in the field of evolutionary biology this book is an invaluable source of information for scientists teachers and advanced students

Introduction to Computer-Intensive Methods of Data Analysis in Biology Derek A. Roff, 2006-05-25 Publisher Description

Applied Genetics Of Humans, Animals, Plants And Fungi, The (2nd Edition) Bernard Charles Lamb, 2006-12-28 A concise clear writing style and a detailed and rich coverage of topics are the reasons that students found the first edition of the book so engaging and useful Riding on this wave all chapters within the second edition of this popular book have been thoroughly updated and expanded especially the human and animal materials A wider range of animals is covered including dogs and cats as well as farm animals The use of cord

blood for therapy pre implantation genetic diagnosis and animal cloning are also explored and dealt with a **Organism and Environment** Sonia E. Sultan, 2015 Over the past decade advances in both molecular developmental biology and evolutionary ecology have made possible a new understanding of organisms as dynamic systems interacting with their environments This innovative book synthesizes a wealth of recent research findings to examine how environments influence phenotypic expression in individual organisms ecological development or eco devo and how organisms in turn alter their environments niche construction A key argument explored throughout the book is that ecological interactions as well as natural selection are shaped by these dual organism environment effects This synthesis is particularly timely as biologists seek a unified contemporary framework in which to investigate the developmental outcomes ecological success and evolutionary prospects of organisms in rapidly changing environments Organism and Environment is an advanced text suitable for graduate level students taking seminar courses in ecology evolution and developmental biology as well as academics and researchers in these fields Evolutionary Conservation Genetics Jacob Höglund, 2009-03-05 Conservation genetics focuses on understanding the role of genetic variation for population persistence This book is about the methods used to study genetic variation in endangered species and whether genetic variation matters in the extinction of species

*Evolutionary Ecology of Freshwater Animals* B. Streit, T. Städler, C.M. Lively, 2013-03-11 Evolutionary ecology includes aspects of community structure trophic interactions life history tactics and reproductive modes analyzed from an evolutionary perspective Freshwater environments often impose spatial structure on populations e g within large lakes or among habitat patches facilitating genetic and phenotypic divergence Traditionally freshwater systems have featured prominently in ecological research and population biology This book brings together information on diverse freshwater taxa with a mix of critical review synthesis and case studies Using examples from bryozoans rotifers cladocerans molluscs teleosts and others the authors cover current conceptual issues of evolutionary ecology in considerable depth The book can serve as a source of critically evaluated ideas detailed case studies and open problems in the field of evolutionary ecology It is recommended for students and researchers in ecology limnology population biology and evolutionary biology



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