



# Ecology, Genetics, and Evolution of Metapopulations



*Edited by*  
Ilkka Hanski  
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# Metapopulation Biology Ecology Genetics And Evolution

**Richard Frankham, Jonathan D.  
Ballou, Katherine Ralls, Mark  
Eldridge, Michele R. Dudash, Charles B.  
Fenster, Robert C. Lacy, Paul Sunnucks**

## **Metapopulation Biology Ecology Genetics And Evolution:**

**Ecology, Genetics and Evolution of Metapopulations** Ilkka A. Hanski, Oscar E. Gaggiotti, 2004-05-17 Ecology  
Genetics and Evolution of Metapopulations is a collection of specially commissioned articles that looks at fragmented habitats bringing together recent theoretical advances and empirical studies applying the metapopulation approach Several chapters closely integrate ecology with genetics and evolutionary biology and others illustrate how metapopulation concepts and models can be applied to answer questions about conservation epidemiology and speciation The extensive coverage of theory from highly regarded scientists and the many substantive applications in this one of a kind work make it invaluable to graduate students and researchers in a wide range of disciplines Provides a comprehensive and authoritative account of all aspects of metapopulation biology integrating ecology genetics and evolution Developed by recognized experts including Hanski who won the Balzan Prize for Ecological Sciences Covers novel applications of the metapopulation approach to conservation

**Metapopulation Biology** Ilkka Hanski, Michael E. Gilpin, 1997 This volume presents a review of metapopulation biology It describes key theories of study and applies the best field studies to the conservation of species in fragmented landscapes The work explains and critically assesses the value of the metapopulation concept for field studies and conservation

**Ecology, Genetics and Evolution of Metapopulations** Ilkka A. Hanski, Oscar E. Gaggiotti, 2004-02-26 Spatial dynamics landscape population

**Ecology, Genetics and Evolution of Metapopulations** Ilkka A. (University of Helsinki Hanski, 2004-02

**Evolutionary Genetics** R. S. Singh, Costas B. Krimbas, 2000-03-28 This book brings out the central role of evolutionary genetics in all aspects of its connection to evolutionary biology

**Evolutionary Dynamics of Plant-Pathogen Interactions** Jeremy J. Burdon, Anna-Liisa Laine, 2019-01-31 A broad view of plant pathogen interactions illustrating the fundamental reciprocal role pathogens and hosts play in shaping each other's ecology and evolution

**Multitrophic Level Interactions** Teja Tscharntke, Bradford A. Hawkins, 2002-03-21 The multitrophic level approach to ecology addresses the complexity of food webs much more realistically than the traditional focus on simple systems and interactions Only in the last few decades have ecologists become interested in the nature of more complex systems including tritrophic interactions between plants herbivores and natural enemies Plants may directly influence the behaviour of their herbivores natural enemies ecological interactions between two species are often indirectly mediated by a third species landscape structure directly affects local tritrophic interactions and below ground food webs are vital to above ground organisms The relative importance of top down effects control by predators and bottom up effects control by resources must also be determined These interactions are explored in this exciting volume by expert researchers from a variety of ecological fields This book provides a much needed synthesis of multitrophic level interactions and serves as a guide for future research for ecologists of all descriptions

**Invasion Genetics** Spencer C. H. Barrett, Robert I. Colautti, Katrina M. Dlugosch, Loren H. Rieseberg, 2016-09-19 Invasion Genetics the Baker demographic genetics the role of stochastic forces in the invasion process

the contemporary evolution of local adaptation the significance of epigenetics and transgenerational plasticity for invasive species the genomic consequences of colonization the search for invasion genes and the comparative biology of invasive species A wide diversity of invasive organisms are discussed including plants animals fungi and microbes

**Introduction to Conservation Genetics** Richard Frankham, Jonathan D. Ballou, David Anthony Briscoe, 2010 This impressive author team brings the wealth of advances in conservation genetics into the new edition of this introductory text including new chapters on population genomics and genetic issues in introduced and invasive species They continue the strong learning features for students main points in the margin chapter summaries vital support with the mathematics and further reading and now guide the reader to software and databases Many new references reflect the expansion of this field With examples from mammals birds reptiles fish amphibians plants and invertebrates this is an ideal introduction to conservation genetics for a broad audience The text tackles the quantitative aspects of conservation genetics and has a host of pedagogy to support students learning the numerical side of the subject Combined with being up to date its user friendly writing style and first class illustration programme forms a robust teaching package

Handbook of Landscape Archaeology Bruno David, Julian Thomas, 2016-06-03 Over 80 archaeologists from four continents create a benchmark volume of the ideas and practices of landscape archaeology covering the theoretical and the practical the research and conservation and encasing the term in a global framework

Population Dynamics for Conservation Louis W. Botsford, J. Wilson White, Alan Hastings, 2019-09-26 The management and conservation of natural populations relies heavily on concepts and results generated from models of population dynamics Yet this is the first book to present a unified and coherent explanation of the underlying theory This novel text begins with a consideration of what makes a good state variable progressing from the simplest models those with a single variable such as abundance or biomass to more complex models with other key variables of population structure including age size life history stage and space Throughout the book attention is paid to concepts such as population variability population stability population viability persistence and harvest yield Later chapters address specific applications to conservation such as recovery planning for species at risk fishery management and the spatial management of marine resources Population Dynamics for Conservation is suitable for graduate level students It will also be valuable to academic and applied researchers in population biology This overview of population dynamic theory can serve to further their population research as well as to improve their understanding of population management

**The Geographic Mosaic of Coevolution** John N. Thompson, 2005-06-15 Coevolution reciprocal evolutionary change in interacting species driven by natural selection is one of the most important ecological and genetic processes organizing the earth's biodiversity most plants and animals require coevolved interactions with other species to survive and reproduce The Geographic Mosaic of Coevolution analyzes how the biology of species provides the raw material for long term coevolution evaluates how local coadaptation forms the basic module of coevolutionary change and explores how the coevolutionary process reshapes locally

coevolving interactions across the earth's constantly changing landscapes Picking up where his influential *The Coevolutionary Process* left off John N Thompson synthesizes the state of a rapidly developing science that integrates approaches from evolutionary ecology population genetics phylogeography systematics evolutionary biochemistry and physiology and molecular biology Using models data and hypotheses to develop a complete conceptual framework Thompson also draws on examples from a wide range of taxa and environments illustrating the expanding breadth and depth of research in coevolutionary biology

Microbial Transmission Fernando Baquero, Emilio Bouza, Jose A. Gutierrez-Fuentes, Teresa M. Coque, 2020-07-10 Microbial transmission the processes by which microbes transit to new environments is a significant and broad reaching concept with applications throughout the biological sciences This collection of reviews edited by an international team of experts studying and working across a range of disciplines explores transmission not just as an idea in disease but as a fundamental biological process that acts in all domains of nature and exerts its force on disparate size scales from the micro to the macro and across units of time as divergent as a single bacterial replication cycle and the entire course of evolution In five sections this overview Defines the concept of transmission and covers basic processes of transmission including causality control strategies fitness costs virulence and selection Presents numerous combinations of transmission scenarios across the bacterial animal and human interface Examines transmission as the defining characteristic of infectious disease Presents methods for experimentally verifying and quantifying transmission episodes Concludes with important theoretical and modeling approaches Anyone studying or working in microbial colonization evolution pathogenicity antimicrobial resistance or public health will benefit from a deeper understanding of Microbial Transmission

**Farmers? Bounty** Stephen B. Brush, 2008-10-01 Biological diversity is as crucial in agriculture as it is in nature and it is equally important to the economic health of both industrial and nonindustrial societies This book offers a sweeping assessment of crop diversity and the potential for its preservation Stephen B Brush develops a framework for investigating biological diversity in agriculture that focuses on the knowledge and practice of farmers and he shows how this human ecology perspective can be applied to three global issues that affect crop resources Brush defines the dimensions of crop diversity and outlines the essential questions surrounding it He describes the techniques used to maintain diversity in major crops of three cradles of agriculture in which he has worked potatoes in the Peruvian Andes maize in Mexico and wheat in Turkey Finally he explores the policy issues surrounding genetic erosion of crop varieties conservation of crop diversity and ownership of genetic resources

*Life History Evolution in Plants* Timo Olavi Vuorisalo, P. Mutikainen, 2001-11-30 The lack of discussion of the life histories of modular organisms is the weakness of this book that I most regret Modular organisms are different S C Stearns *The Evolution of Life Histories* 1992 Life history theory endeavours to increase our understanding of the processes whereby the broad features of the life cycles of organisms such as the timing and magnitude of reproduction have evolved Although reproductive traits have dominated as

study objects due to their immediate importance for evolutionary success much work has also been conducted on patterns of development growth and senescence as well as on the shifts in resource allocation related to these processes The basic axiom of life history theory is that patterns of life histories such as reproductive traits are subject to evolutionary explanation This idea can be traced back at least as far as Darwin's *Origin of Species* 1859 In his discussion of plant domestication Darwin wrote I cannot doubt that the continued selection of slight variations either in the leaves the flowers or the fruit will produce races differing from each other chiefly in these characters Darwin was impressed by the success of plant breeders in moulding the growth and reproductive parameters of cultivated plants and believed that natural selection could have a similar impact in natural populations [A Training Guide for in Situ Conservation On-farm](#) Devra I. Jarvis, L. MEYER, H.

Klemick, 2000 **Genetic Management of Fragmented Animal and Plant Populations** Richard Frankham, Jonathan D. Ballou, Katherine Ralls, Mark Eldridge, Michele R. Dudash, Charles B. Fenster, Robert C. Lacy, Paul Sunnucks, 2017-07-04 One of the greatest unmet challenges in conservation biology is the genetic management of fragmented populations of threatened animal and plant species More than a million small isolated population fragments of threatened species are likely suffering inbreeding depression and loss of evolutionary potential resulting in elevated extinction risks Although these effects can often be reversed by re-establishing gene flow between population fragments managers very rarely do this On the contrary genetic methods are used mainly to document genetic differentiation among populations with most studies concluding that genetically differentiated populations should be managed separately thereby isolating them yet further and dooming many to eventual extinction Many small population fragments are going extinct principally for genetic reasons Although the rapidly advancing field of molecular genetics is continually providing new tools to measure the extent of population fragmentation and its genetic consequences adequate guidance on how to use these data for effective conservation is still lacking This accessible authoritative text is aimed at senior undergraduate and graduate students interested in conservation biology conservation genetics and wildlife management It will also be of particular relevance to conservation practitioners and natural resource managers as well as a broader academic audience of conservation biologists and evolutionary ecologists

**Marine Metapopulations** Jacob P. Kritzer, Peter F. Sale, 2010-07-20 Technological improvements have greatly increased the ability of marine scientists to collect and analyze data over large spatial scales and the resultant insights attainable from interpreting those data vastly increase understanding of population dynamics evolution and biogeography *Marine Metapopulations* provides a synthesis of existing information and understanding and frames the most important future directions and issues First book to systematically apply metapopulation theory directly to marine systems Contributions from leading international ecologists and fisheries biologists Perspectives on a broad array of marine organisms and ecosystems from coastal estuaries to shallow reefs to deep sea hydrothermal vents Critical science for improved management of marine resources Paves the way for future research on large scale spatial ecology of marine systems **Evolutionary**

**Conservation Biology** Régis Ferrière,Ulf Dieckmann,Denis Couvet,2004-06-10 As anthropogenic environmental changes spread and intensify across the planet conservation biologists have to analyze dynamics at large spatial and temporal scales Ecological and evolutionary processes are then closely intertwined In particular evolutionary responses to anthropogenic environmental change can be so fast and pronounced that conservation biology can no longer afford to ignore them To tackle this challenge areas of conservation biology that are disparate ought to be integrated into a unified framework Bringing together conservation genetics demography and ecology this book introduces evolutionary conservation biology as an integrative approach to managing species in conjunction with ecological interactions and evolutionary processes Which characteristics of species and which features of environmental change foster or hinder evolutionary responses in ecological systems How do such responses affect population viability community dynamics and ecosystem functioning Under which conditions will evolutionary responses ameliorate rather than worsen the impact of environmental change

**Metacommunities** Marcel Holyoak,Mathew A. Leibold,Robert D. Holt,2005-10 Takes the hallmarks of metapopulation theory to the next level by considering a group of communities each of which may contain numerous populations connected by species interactions within communities and the movement of individuals between communities This book seeks to understand how communities work in fragmented landscapes

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