



# Ecology, Genetics, and Evolution of Metapopulations



*Edited by*  
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# Ecology Genetics And Evolution Of Metapopulations

**Ilkka A. Hanski, Oscar E. Gaggiotti**



## **Ecology Genetics And Evolution Of Metapopulations:**

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

**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 Evolutionary Genetics Charles W. Fox, Jason B. Wolf, 2006-04-27 Charles Fox and Jason Wolf have brought together leading researchers to produce a cutting edge primer introducing readers to the major concepts in modern evolutionary genetics This book spans the continuum of scale from studies of DNA sequence evolution through proteins and development to multivariate phenotypic evolution and the continuum of time from ancient events that lead to current species diversity to the rapid evolution seen over relatively short time scales in experimental evolution studies Chapters are accessible to an audience lacking extensive background in evolutionary genetics but also current and in depth enough to be of value to established researchers in evolution biology **Genetic Management of Fragmented Animal and Plant**

**Populations** Richard Frankham, Jonathan D. Ballou, Katherine Ralls, Mark Derek Bruce Eldridge, Michele R. Dudash, Charles Barnet Fenster, Robert Cady Lacy, Paul Sunnucks, 2017 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 Encyclopedia of Biodiversity, 2013-02-05 The 7 volume Encyclopedia of Biodiversity Second Edition maintains the reputation of the highly regarded original presenting the most current information available in this globally crucial area of research and study It brings together the dimensions of biodiversity and examines both the services it provides and the measures to protect it Major themes of the work include the evolution of biodiversity systems for classifying and defining biodiversity ecological patterns and theories of biodiversity and an assessment of contemporary patterns and trends in biodiversity The science of biodiversity has become the science of our future It is an interdisciplinary field spanning areas of both physical and life sciences Our awareness of the loss of biodiversity has brought a long overdue appreciation of the magnitude of this loss and a determination to develop the tools to protect our future Second edition includes over 100 new articles and 226 updated articles covering this multidisciplinary field from evolution to habits to economics in 7 volumes The editors of this edition are all well respected instantly recognizable academics operating at the top of their respective fields in biodiversity research readers can be assured that they are reading material that has been meticulously checked and reviewed by experts Approximately 1 800 figures and 350 tables complement the text and more than 3 000 glossary entries explain key terms Complexity and Dynamics, 2017 *Sustainability*, *Animal Space Use, Second Edition* Arild O. Gautestad, 2021-08-06 Animal space use is complex from both the individual and population perspectives Spatial memory leads to site fidelity the emergence of home ranges and multi scaled use of the environment Attraction to conspecifics another memory dependent property contributes to population survival by counteracting decline in local abundance from unconstrained dispersal However memory effects multi scaled space use and intra specific cohesion present deep theoretical challenges for biophysical modelling This book confronts these issues straight on and presents a range of novel system descriptors model designs and simulations intrinsic properties from memory and scaling are illustrated in detail and classical models are scrutinized with respect to compliance with real data The presentations of concepts are geared towards a broad audience of researchers and students with an interest in animal space use The book advocates that an extension of the biophysical frame of reference may be needed to understand systems that express intrinsic complexity from the combined effects of scaling and memory It boldly provides an overview and critical evaluation of existing concepts and a wide range of theoretical proposals to resolve present challenges *Plants on Plants - The Biology of Vascular Epiphytes* Gerhard Zotz, 2016-09-01 This book

critically reviews advances in our understanding of the biology of vascular epiphytes since Andreas Schimper's 1888 seminal work. It addresses all aspects of their biology from anatomy and physiology to ecology and evolution in the context of general biological principles. By comparing epiphytes with non epiphytes throughout it offers a valuable resource for researchers in plant sciences and related disciplines. A particular strength is the identification of research areas that have not received the attention they deserve with conservation being a case in point. Scientists have tended to study pristine systems but global developments call for information on epiphytes in human disturbed systems and the response of epiphytes to global climate change.

*Occupancy Estimation and Modeling* Darryl I. MacKenzie, 2006 Publisher Description

*Cellular Automata* Samira El Yacoubi, Bastien Chopard, Stefania Bandini, 2006-10-17 This book constitutes the refereed proceedings of the 7th International Conference on Cellular Automata for Research and Industry ACRI 2006. The book presents 53 revised full papers and 19 revised poster papers together with 6 invited lectures. Topical sections include CA theory and implementation computational theory population dynamics physical modeling urban environmental and social modeling traffic and boolean networks multi agents and robotics as well as crowds and cellular automata and more.

**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.

**The Adaptive Landscape in Evolutionary Biology** Erik I. Svensson, Ryan Calsbeek, 2012-05-17 The Adaptive Landscape has been a central concept in population genetics and evolutionary biology since this powerful metaphor was first formulated in 1932. This volume brings together historians of science philosophers ecologists and evolutionary biologists to discuss the state of the art from several different perspectives.

*Encyclopedia of Environmental Change* John A. Matthews, 2013-12-13 Accessibly written by a team of international authors the Encyclopedia of Environmental Change provides a gateway to the complex facts concepts techniques methodology and philosophy of environmental change. This three volume set illustrates and examines topics within this dynamic and rapidly changing interdisciplinary field. The encyclopedia includes all of the following aspects of environmental change: Diverse evidence of environmental change including climate change and changes on land and in the oceans Underlying natural and anthropogenic causes and mechanisms Wide ranging local regional and global impacts from the polar regions to the tropics Responses of geo ecosystems and human environmental systems in the face of past present and future environmental change Approaches methodologies and techniques used for reconstructing dating monitoring modelling projecting and predicting change Social economic and political dimensions of environmental issues environmental conservation and management and environmental policy Over 4 000 entries explore the following key themes and more: Conservation Demographic change Environmental management Environmental policy Environmental security Food security Glaciation Green Revolution Human

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 Macdonald, Ruth Feber, 2015 This volume reveals how agricultural systems and wildlife interact presenting examples from  
 scales varying from landscape to microcosm from populations to individuals covering plants invertebrates birds and  
 mammals     *Encyclopedia of Evolutionary Biology*, 2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the  
 definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to  
 search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by  
 leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully  
 illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and  
 valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both  
 advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics  
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 features to assist with the comprehension process     *The Routledge Handbook on Greening High-Density Cities* Peng  
 Du, Kheir Al-Kodmany, Mir M. Ali, 2024-06-17 This new handbook provides a platform to bring together multidisciplinary  
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 and people's health Written by leading scholars and experts the chapters aim to summarize the state of the art and produce a  
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**Essentials of Landscape Ecology** Kimberly A. With, 2019-07-01 Human activity during the Anthropocene has  
 transformed landscapes worldwide on a scale that rivals or exceeds even the largest of natural forces Landscape ecology has

emerged as a science to investigate the interactions between natural and anthropogenic landscapes and ecological processes across a wide range of scales and systems from the effects of habitat or resource distributions on the individual movements gene flow and population dynamics of plants and animals to the human alteration of landscapes affecting the structure of biological communities and the functioning of entire ecosystems to the sustainable management of natural resources and the ecosystem goods and services upon which society depends This novel and comprehensive text presents the principles theory methods and applications of landscape ecology in an engaging and accessible format that is supplemented by numerous examples and case studies from a variety of systems including freshwater and marine scapes

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