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# **Population Biology Ecological Evolut**

J. Jaime Zúñiga-Vega, Bart Pollux, Jerald B. Johnson, Andrea S. Aspbury

# **Population Biology Ecological Evolut:**

**Population Biology** Philip W. Hedrick, 1984 **Ecology Evolution and Population Biology** Edward O. Wilson, 1974 Population Biology K. Wöhrmann, S.K. Jain, 2012-12-06 Fascinated by the diversity of living organisms humans have always been curious about its origin Darwin was the first to provide the scholary and persuasive thesis for gradual evolution and speciation under natural selection Although we now have much information on evolution we still don t understand it in detail Many guestions still remain open due to the complexity and multiplicity of interacting factors Several approaches mainly arising from population ecology and genetics are presented in this book in order to help understand genetic variation Population Biology and Evolution K. Wöhrmann, V. Löschcke, 2012-12-06 This volume contains the papers and evolution presented at a symposium on popula tion biology sponsored by the Deutsche Forschungsgemeinschaft It was held at the guest house of the University of Ttibingen at Oberjoch on May 15 19 1983 Prior to this conference a small group of European biologists had met in Berlin June 1981 and Pavia September 1982 to discuss re search problems on the borderline between population genetics and evolutionary ecology From the contributions and discussions at these meetings it became evident that the unification of approaches to evolutionary problems in population genetics and evolutionary ecology has not yet been suc cessful and requires further efforts It was the consensus that a larger symposium with international participation would be helpful to con front and discuss the different approaches to population biology in order to assess where we are now and where we should be going As a result an organizational committee was formed F Christiansen S Jayakar V Loeschcke W Scharloo and K W6hrmann to iden tify topics that seemed at least to them to be fruitful in tackling problems in population biology Consequently a number of colleagues were asked to participate in the meeting We have divided this book into chapters corresponding to the eight topics chosen The volume begins with the relation between genotype and phenotype and is followed by a chapter on quantitative genetics and selection in natural populations Population Ecology John H. Vandermeer, Deborah E. Goldberg, 2013-08-25 The essential introduction to population ecology now expanded and fully updated Ecology is capturing the popular imagination like never before with issues such as climate change species extinctions and habitat destruction becoming ever more prominent At the same time the science of ecology has advanced dramatically growing in mathematical and theoretical sophistication Here two leading experts present the fundamental quantitative principles of ecology in an accessible yet rigorous way introducing students to the most basic of all ecological subjects the structure and dynamics of populations John Vandermeer and Deborah Goldberg show that populations are more than simply collections of individuals Complex variables such as distribution and territory for expanding groups come into play when mathematical models are applied Vandermeer and Goldberg build these models from the ground up from first principles using a broad range of empirical examples from animals and viruses to plants and humans They address a host of exciting topics along the way including age structured populations spatially distributed populations and metapopulations This

second edition of Population Ecology is fully updated and expanded with additional exercises in virtually every chapter making it the most up to date and comprehensive textbook of its kind Provides an accessible mathematical foundation for the latest advances in ecology Features numerous exercises and examples throughout Introduces students to the key literature in the field The essential textbook for advanced undergraduates and graduate students An online illustration package is available to professors Integrating Ecology and Evolution in a Spatial Context Jonathan Silvertown, Janis Antonovics, 2001-08 The profound consequences of the deceptively obvious statement that plants stand still but their genes don t are only just becoming clear In this volume an international team of authors experts in the field of population biology aim to advance our understanding of ecological and evolutionary processes by integrating them within a common frame of reference space Processes operating at three different spatial scales are examined that of the population metapopulation and the geographical range Themes that recur at these different scales include spatial population dynamics population genetics at boundaries the imprint of spatial population dynamics upon genetic structure adaptation evolution of mating systems and the consequences of population genetics for ecological dynamics Whilst the focus is largely on plants the questions addressed are equally applicable to animals It will be a valuable tool for researchers and advanced students not only in this field but also evolutionary biology and resource management The Ecology and Evolution of Invasive Populations Ben Phillips, 2025-02-12 Invasive populations are ubiquitous and invariably carry consequences A gene for herbicide resistance spreads a tumour grows in a loved one s body an agricultural pest sweeps across the country a new pathogen proliferates around the world All of these are invasive populations populations of genes cells or organisms spreading without control and having massive impact Our collective desire to understand how invasive populations spread has inspired a rich body of basic theory developed from foundations laid in physics and statistics over a century ago This theory has however often failed to explain real patterns in nature because a key consideration has been missing evolution The last few decades have seen a growing awareness that evolution plays out on timescales that matter to many systems. The recent emergence of evolutionary thinking in invasion biology has generated important new ideas and has enriched our understanding not only of invasions but of ecology and evolution more broadly This accessible textbook introduces these new ideas It provides both a survey of the field a story about the history and development of our understanding as well as a synthesis of the new developments There are many titles on biological invasions that typically take a purely ecological viewpoint whilst those texts in which evolution does feature have tended to concentrate on adaptation to new environments This book instead focuses on the intimate interplay between ecological and evolutionary processes as populations spread through time and space The Ecology and Evolution of Invasive Populations is an advanced textbook aimed at graduate students and researchers in ecology and evolutionary biology seeking a broad up to date and authoritative overview of the field The study of biological invasions is no longer a specialized sub discipline of ecology this book will also be of relevance to a far broader academic readership from

disciplines ranging across physics mathematics and medicine Ecology, Evolution, and Population Biology: Readings from **Population Biology** K. Wöhrmann, S.K. Jain, 1990-02-28 Fascinated by the diversity of living 'scientific American', 1974 organisms humans have always been curious about its origin Darwin was the first to provide the scholary and persuasive thesis for gradual evolution and speciation under natural selection Although we now have much information on evolution we still don't understand it in detail Many questions still remain open due to the complexity and multiplicity of interacting factors Several approaches mainly arising from population ecology and genetics are presented in this book in order to help understand genetic variation and evolution **Dispersal Ecology and Evolution** Jean Clobert, 2012-09-27 Provides an overview of the fast expanding field of dispersal ecology. The causes mechanisms and consequences of dispersal at the individual population species and community levels are all considered An Introduction to Mathematical Models in Ecology and Evolution Mike Gillman, 2009-04-08 Students often find it difficult to grasp fundamental ecological and evolutionary concepts because of their inherently mathematical nature Likewise the application of ecological and evolutionarytheory often requires a high degree of mathematical competence This book is a first step to addressing these difficulties providing a broad introduction to the key methods and underlying concepts of mathematical models in ecology and evolution The bookis intended to serve the needs of undergraduate and postgraduateecology and evolution students who need to access the mathematical and statistical modelling literature essential to their subjects The book assumes minimal mathematics and statistics knowledgewhilst covering a wide variety of methods many of which are at the fore front of ecological and evolutionary research The book also highlights the applications of modelling to practical problems such as sustainable harvesting and biological control Key features Written clearly and succinctly requiring minimal in depthknowledge of mathematics Introduces students to the use of computer models in bothfields of ecology and evolutionary biology Market senior undergraduate students and beginningpostgraduates in ecology and evolutionary biology

Population Parameters Hamish McCallum,2008-04-15 Ecologists and environmental managers rely on mathematical models both to understand ecological systems and to predict future system behavior In turn models rely on appropriate estimates of their parameters This book brings together a diverse and scattered literature to provide clear guidance on how to estimate parameters for models of animal populations It is not a recipe book of statistical procedures Instead it concentrates on how to select the best approach to parameter estimation for a particular problem and how to ensure that the quality estimated is the appropriate one for the specific purpose of the modelling exercise Commencing with a toolbox of useful generic approaches to parameter estimation the book deals with methods for estimating parameters for single populations These parameters include population size birth and death rates and the population growth rate For such parameters rigorous statistical theory has been developed and software is readily available The problem is to select the optimal sampling design and method of analysis The second part of the book deals with parameters that describe spatial

dynamics and ecological interactions such as competition predation and parasitism Here the principle problems are designing appropriate experiments and ensuring that the quantities measured by the experiments are relevant to the ecological models in which they will be used This book will be essential reading for ecological researchers postgraduate students and environmental managers who need to address an ecological problem through a population model It is accessible to anyone with an understanding of basic statistical methods and population ecology Unique in concentrating on parameter estimation within modelling Fills a glaring gap in the literature Not too technical so suitable for the statistically inept Methods explained in algebra but also in worked examples using commonly available computer packages SAS GLIM and some more specialised packages where relvant Some spreadsheet based examples also included 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 Ecology, Evolution, and Behavior of Viviparous Fishes J. Jaime Zúñiga-Vega, Bart Pollux, Jerald B. Johnson, Andrea S. Aspbury, 2022-02-24 Molecular Ecology and Evolution John C. Avise, 2010 This volume is a reprinted collection of 69 classics from the Avise laboratory chosen to illustrate a trademark brand of research that harnesses molecular markers to scientific studies of natural history and evolution in the wild Spanning the early 1970s through the late 2000s these articles trace how the author and his colleagues have used molecular genetics techniques to address multifarious conceptual topics in genetics ecology and evolution in a fascinating menagerie of creatures with oft peculiar lifestyles. The organisms described in this volume range from blind cavefish to male pregnant pipefishes and sea spiders from clonal armadillos to natal homing marine turtles from

hermaphroditic sea snails to hybridizing monkeys and tree frogs from clonal marine sponges to pseudohermaphroditic mollusks to introgressing oysters and from endangered pocket gophers terrapins and sparrows to unisexual all female fish species to living fossil horseshoe crabs and even to a strange little fish that routinely mates with itself The conceptual and molecular topics addressed in this volume are also universal ranging from punctuated equilibrium to coalescent theory to the need for greater standardization in taxonomy from cytonuclear disequilibrium statistics to the ideas of speciation duration and sympatric speciation from historical population demography to phylogenetic reconstructions of males sexual ornaments from the population genetic consequences of inbreeding to Pleistocene effects on phylogeography and from the molecular underpinnings of null alleles to the notion of clustered mutations that arise in groups to compelling empirical evidence for the unanticipated processes of gene conversion and concerted evolution in animal mitochondrial DNA Overall this collection includes many of the best most influential sometimes controversial occasionally provocative always intriguing or otherwise entertaining publications to have emerged from the Avise laboratory over the last four decades Thus this book conveys through the eyes of one of the field's longstanding pioneers what the organismal side of molecular ecology and evolution Ecology of Fishes on Coral Reefs Camilo Mora, 2015-04-23 Draws on contributions from leading researchers to deliver a comprehensive overview of the latest knowledge on coral reef fishes Plasmid Transfer: Mechanisms, Ecology, Evolution, and Applications Chin-Yi Chen, Clay Fugua, Charlene Renee Jackson, Kristina Kadlec, Eva M. Top, 2022-07-28

Fish Ecology, Evolution, and Exploitation Ken H. Andersen, 2019-07-16 Fish are one of the most important global food sources supplying a significant share of the world s protein consumption From stocks of wild Alaskan salmon and North Sea cod to entire fish communities with myriad species fisheries require careful management to ensure that stocks remain productive and mathematical models are essential tools for doing so Fish Ecology Evolution and Exploitation is an authoritative introduction to the modern size and trait based approach to fish populations and communities Ken Andersen covers the theoretical foundations mathematical formulations and real world applications of this powerful new modeling method which is grounded in the latest ecological theory and population biology He begins with fundamental assumptions on the level of individuals and goes on to cover population demography and fisheries impact assessments He shows how size and trait based models shed new light on familiar fisheries concepts such as maximum sustainable yield and fisheries selectivity insights that classic age based theory can t provide and develops novel evolutionary impacts of fishing Andersen extends the theory to entire fish communities and uses it to support the ecosystem approach to fisheries management and forges critical links between trait based methods and evolutionary ecology Accessible to ecologists with a basic quantitative background this incisive book unifies the thinking in ecology and fisheries science and is an indispensable reference for anyone seeking to apply size and trait based models to fish demography fisheries impact assessments and fish evolutionary ecology

<u>University of Michigan Official Publication</u> University of Michigan,1999 Each number is the catalogue of a specific school

or college of the University *Competition Theory in Ecology* Peter A. Abrams, 2022 This novel textbook addresses the shortcomings of current competition theory and suggests a more useful approach that can provide a basis for future models that have far greater predictive ability in both ecology and evolution

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