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Ecology &

Evolutionary Biology

# Ecology And Evolutionary Biology

**Thomas N. Sherratt, David M.  
Wilkinson**



## **Ecology And Evolutionary Biology:**

Dispersal Ecology and Evolution Jean Clobert, Michel Baguette, Tim G. Benton, James M. Bullock, 2012-09-27 Now that so many ecosystems face rapid and major environmental change the ability of species to respond to these changes by dispersing or moving between different patches of habitat can be crucial to ensuring their survival Understanding dispersal has become key to understanding how populations may persist Dispersal Ecology and Evolution provides a timely and wide ranging overview of the fast expanding field of dispersal ecology incorporating the very latest research The causes mechanisms and consequences of dispersal at the individual population species and community levels are considered Perspectives and insights are offered from the fields of evolution behavioural ecology conservation biology and genetics Throughout the book theoretical approaches are combined with empirical data and care has been taken to include examples from as wide a range of species as possible both plant and animal

**Quantitative Ecology and Evolutionary Biology** Otso Ovaskainen, Henrik Johan de Knecht, Maria del Mar Delgado, 2016-09-01 This novel interdisciplinary text achieves an integration of empirical data and theory with the aid of mathematical models and statistical methods The emphasis throughout is on spatial ecology and evolution especially on the interplay between environmental heterogeneity and biological processes The book provides a coherent theme by interlinking the modelling approaches used for different subfields of spatial ecology movement ecology population ecology community ecology and genetics and evolutionary ecology each being represented by a separate chapter Each chapter starts by describing the concept of each modelling approach in its biological context goes on to present the relevant mathematical models and statistical methods and ends with a discussion of the benefits and limitations of each approach The concepts and techniques discussed throughout the book are illustrated throughout with the help of empirical examples This is an advanced text suitable for any biologist interested in the integration of empirical data and theory in spatial ecology evolution through the use of quantitative statistical methods and mathematical models The book will also be of relevance and use as a textbook for graduate level courses in spatial ecology ecological modelling theoretical ecology and statistical ecology

**The Structural Links between Ecology, Evolution and Ethics** Donato Bergandi, 2013-01-06 Evolutionary biology ecology and ethics at first glance three different objects of research three different worldviews and three different scientific communities In reality there are both structural and historical links between these disciplines First some topics are obviously common across the board Second the emerging need for environmental policy management has gradually but radically changed the relationship between these disciplines Over the last decades in particular there has emerged a need for an interconnecting meta paradigm that integrates more strictly evolutionary studies biodiversity studies and the ethical frameworks that are most appropriate for allowing a lasting co evolution between natural and social systems Today such a need is more than a mere luxury it is an epistemological and practical necessity

*A Primer of Life Histories* Jeffrey Alexander Hutchings, 2021 This accessible primer encompasses the basic concepts theories and applied elements of

life history evolution      An Introduction to Methods and Models in Ecology, Evolution, and Conservation Biology Stanton Braude, Bobbi S. Low, 2010-01-04 An innovative introduction to ecology and evolution This unique textbook introduces undergraduate students to quantitative models and methods in ecology behavioral ecology evolutionary biology and conservation It explores the core concepts shared by these related fields using tools and practical skills such as experimental design generating phylogenies basic statistical inference and persuasive grant writing And contributors use examples from their own cutting edge research providing diverse views to engage students and broaden their understanding This is the only textbook on the subject featuring a collaborative active learning approach that emphasizes hands on learning Every chapter has exercises that enable students to work directly with the material at their own pace and in small groups Each problem includes data presented in a rich array of formats which students use to answer questions that illustrate patterns principles and methods Topics range from Hardy Weinberg equilibrium and population effective size to optimal foraging and indices of biodiversity The book also includes a comprehensive glossary In addition to the editors the contributors are James Beck Cawas Behram Engineer John Gaskin Luke Harmon Jon Hess Jason Kolbe Kenneth H Kozak Robert J Robertson Emily Silverman Beth Sparks Jackson and Anton Weisstein Provides experience with hypothesis testing experimental design and scientific reasoning Covers core quantitative models and methods in ecology behavioral ecology evolutionary biology and conservation Turns discussion sections into thinking labs Professors A supplementary Instructor s Manual is available for this book It is restricted to teachers using the text in courses For information on how to obtain a copy refer to [http://press.princeton.edu/class\\_use/solutions.html](http://press.princeton.edu/class_use/solutions.html)      Big Questions in Ecology and Evolution Thomas N. Sherratt, David M. Wilkinson, 2009-02-19 Why do we age Why cooperate Why do so many species engage in sex Why do the tropics have so many species When did humans start to affect world climate This book provides an introduction to a range of fundamental questions that have taxed evolutionary biologists and ecologists for decades Some of the phenomena discussed are on first reflection simply puzzling to understand from an evolutionary perspective whilst others have direct implications for the future of the planet All of the questions posed have at least a partial solution all have seen exciting breakthroughs in recent years yet many of the explanations continue to be hotly debated Big Questions in Ecology and Evolution is a curiosity driven book written in an accessible way so as to appeal to a broad audience It is very deliberately not a formal text book but something designed to transmit the excitement and breadth of the field by discussing a number of major questions in ecology and evolution and how they have been answered This is a book aimed at informing and inspiring anybody with an interest in ecology and evolution It reveals to the reader the immense scope of the field its fundamental importance and the exciting breakthroughs that have been made in recent years      **The Structural Links between Ecology, Evolution and Ethics** Donato Bergandi, 2013-01-05 Evolutionary biology ecology and ethics at first glance three different objects of research three different worldviews and three different scientific communities In reality there are both structural and historical links

between these disciplines First some topics are obviously common across the board Second the emerging need for environmental policy management has gradually but radically changed the relationship between these disciplines Over the last decades in particular there has emerged a need for an interconnecting meta paradigm that integrates more strictly evolutionary studies biodiversity studies and the ethical frameworks that are most appropriate for allowing a lasting co evolution between natural and social systems Today such a need is more than a mere luxury it is an epistemological and practical necessity

*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

**Conceptual Breakthroughs in Evolutionary Ecology** Laurence Mueller, 2019-11-18 Although biologists recognize evolutionary ecology by name many only have a limited understanding of its conceptual roots and historical development *Conceptual Breakthroughs in Evolutionary Ecology* fills that knowledge gap in a thought provoking and readable format Written by a world renowned evolutionary ecologist this book embodies a unique blend of expertise in combining theory and experiment population genetics and ecology Following an easily accessible structure this book encapsulates and chronologizes the history behind evolutionary ecology It also focuses on the integration of age structure and density dependent selection into an understanding of life history evolution

Essential Readings in Evolutionary Biology Francisco J. Ayala, John C. Avise, 2014-03-15 Traces scholarly thought from the nineteenth century birth of evolutionary biology to the mapping of the human genome through forty eight essays arranged in chronological order each preceded by a one page essay that explains the significance of the chosen work

**Evolution and Ecology** K. D. Bennett, 1997 Evolutionary synthesis using contribution of recent fossil record to understand mechanisms of macroevolutionary change

Molecular Approaches to Ecology and Evolution R. deSalle, B. Schierwater, 2012-12-06 Four years ago we edited a volume of 36 papers entitled *Molecular Approaches to Ecology and Evolution* Schierwater et al 1994 in which we attempted to put together a diverse array of papers that demonstrated the impact that the technological revolution of molecular biology has had on the field of evolutionary biology and ecology The present volume borrows from that theme but attempts to focus more sharply on the impact that molecular biology has had on our understanding of different

hierarchical levels important in evolutionary and ecological studies Because DNA sequence variation is at the heart of every paper in the present volume we feel it necessary to examine how DNA has affected study at various levels of biological organization The majority of the chapters in the present volume follow themes established in the earlier volume all chapters by authors in the previous volume are either fully updated or entirely new and expand into areas that we felt were important for a more complete understanding of the impact of DNA technology on ecology and evolution The collection of papers in this volume cover a diverse array of ecological and evolutionary questions and demonstrates the breadth of coverage molecular technology has imparted on modern evolutionary biology There are also a broad range of hierarchical questions approached by the 17 papers in this volume

*Predator Ecology* John P. DeLong, 2021-09-15 Predator-prey interactions are ubiquitous govern the flow of energy up trophic levels and strongly influence the structure of ecological systems They are typically quantified using the functional response the relationship between a predator's foraging rate and the availability of food As such the functional response is central to how all ecological communities function since all communities contain foragers and a principal driver of the abundance diversity and dynamics of ecological communities The functional response also reflects all the behaviors traits and strategies that predators use to hunt prey and that prey use to evade predation It is thus both a clear reflection of past evolution including predator-prey arms races and a major force driving the future evolution of both predator and prey Despite their importance there have been remarkably few attempts to synthesize or even briefly review functional responses This novel and accessible book fills this gap clearly demonstrating their crucial role as the link between individual evolution and community properties representing a highly integrated and measurable aspect of ecological function It provides a clear entry point for students a refresher for more advanced researchers and a motivator for future research *Predator Ecology* is an advanced textbook suitable for graduate students and researchers in ecology and evolutionary biology seeking a broad up to date and authoritative coverage of the field It will also be of relevance and use to mathematical ecologists wildlife biologists and anyone interested in predator-prey interactions

**Handbook of Meta-analysis in Ecology and Evolution** Julia Koricheva, Jessica Gurevitch, Kerrie Mengersen, 2013-04-21 Meta-analysis is a powerful statistical methodology for synthesizing research evidence across independent studies This is the first comprehensive handbook of meta-analysis written specifically for ecologists and evolutionary biologists and it provides an invaluable introduction for beginners as well as an up to date guide for experienced meta-analysts The chapters written by renowned experts walk readers through every step of meta-analysis from problem formulation to the presentation of the results The handbook identifies both the advantages of using meta-analysis for research synthesis and the potential pitfalls and limitations of meta-analysis including when it should not be used Different approaches to carrying out a meta-analysis are described and include moment and least square maximum likelihood and Bayesian approaches all illustrated using worked examples based on real biological datasets This one of a kind resource is

uniquely tailored to the biological sciences and will provide an invaluable text for practitioners from graduate students and senior scientists to policymakers in conservation and environmental management Walks you through every step of carrying out a meta analysis in ecology and evolutionary biology from problem formulation to result presentation Brings together experts from a broad range of fields Shows how to avoid minimize or resolve pitfalls such as missing data publication bias varying data quality nonindependence of observations and phylogenetic dependencies among species Helps you choose the right software Draws on numerous examples based on real biological datasets *Ecology and Evolutionary Biology of Clonal Plants*, 2001 **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 quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process **Win-Win Ecology** Michael L. Rosenzweig, 2003-04-24 As humanity presses down inexorably on the natural world people debate the extent to which we can save the Earth's millions of different species without sacrificing human economic welfare But is this argument wise Must the human and natural worlds be adversaries In this book ecologist Michael Rosenzweig finds that ecological science actually rejects such polarization Instead it suggests that to be successful conservation must discover how we can blend a rich natural world into the world of economic activity This revolutionary common ground between development and conservation is called reconciliation ecology creating and maintaining species friendly habitats in the very places where people live work or play The book offers many inspiring examples of the good results already achieved The Nature Conservancy for instance has a cooperative agreement with the Department of Defense with more than 200 conservation projects taking place on more than 170 bases in 41 states In places such as Elgin Air Force Base the human uses testing munitions profitable timbering and recreation continue but populations of several threatened species on the base such as the long leaf pine and the red cockaded woodpecker have been greatly improved The Safe Harbor strategy of the Fish Wildlife Service encourages private

landowners to improve their property for endangered species thus overcoming the unintended negative aspects of the Endangered Species Act And Golden Gate Park which began as a system of sand dunes has become through human effort a world of ponds and shrubs waterfowl and trees Rosenzweig shows that reconciliation ecology is the missing tool of conservation the practical scientifically based approach that when added to the rest will solve the problem of preserving Earth's species

**The Theoretical Biologist's Toolbox** Marc Mangel, 2006-07-27 Mathematical modelling is widely used in ecology and evolutionary biology and it is a topic that many biologists find difficult to grasp In this new textbook Marc Mangel provides a no nonsense introduction to the skills needed to understand the principles of theoretical and mathematical biology Fundamental theories and applications are introduced using numerous examples from current biological research complete with illustrations to highlight key points Exercises are also included throughout the text to show how theory can be applied and to test knowledge gained so far Suitable for advanced undergraduate courses in theoretical and mathematical biology this book forms an essential resource for anyone wanting to gain an understanding of theoretical ecology and evolution

Ecology: Evolution, Biodiversity and Conservation Kelsey Malone, 2020-09-22 The field of study that focuses on the interactions among organisms and their environment is called ecology It is a branch of biology that overlaps with the disciplines of genetics ethology and evolutionary biology The applications of ecology are prevalent in the fields of conservation biology city planning wetland management community health natural resource management and human social interaction The understanding of evolution biodiversity and the need for conservation is vital for a complete understanding of ecology Adaptation natural selection inheritance populations and life history are some of the concepts intrinsic to both evolutionary biology and ecology Biodiversity is the variety of life and life's processes It encompasses the genetic differences among living organisms the ecosystems and communities they inhabit and the evolutionary and ecological processes required for their subsistence The conservation and management of biodiversity requires innovative approaches to address the ecological scope of biodiversity This book contains some path breaking studies in the field of ecology It is a valuable compilation of topics ranging from the basic to the most complex theories and insights in evolution biodiversity and conservation It is an essential guide for both academicians and those who wish to pursue this discipline further

**Evolutionary Ecology** Charles W. Fox, Derek A. Roff, Daphne J. Fairbairn, 2001 This text unifies conceptual and empirical advances in evolutionary ecology and provides a volume that can be used as a primary textbook or supplemental reading in an advanced undergraduate or graduate course The focus is on current concepts in evolutionary ecology and the empirical study of these concepts Chapters are written by prominent biologists who have made significant contributions to this field and both synthesize the current state of knowledge and identify areas for future investigation It is divided into five major sections an overview of the major topics in evolutionary biology for ecologists and sections on life histories behaviour co evolution and adaptation to anthropogenic change



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