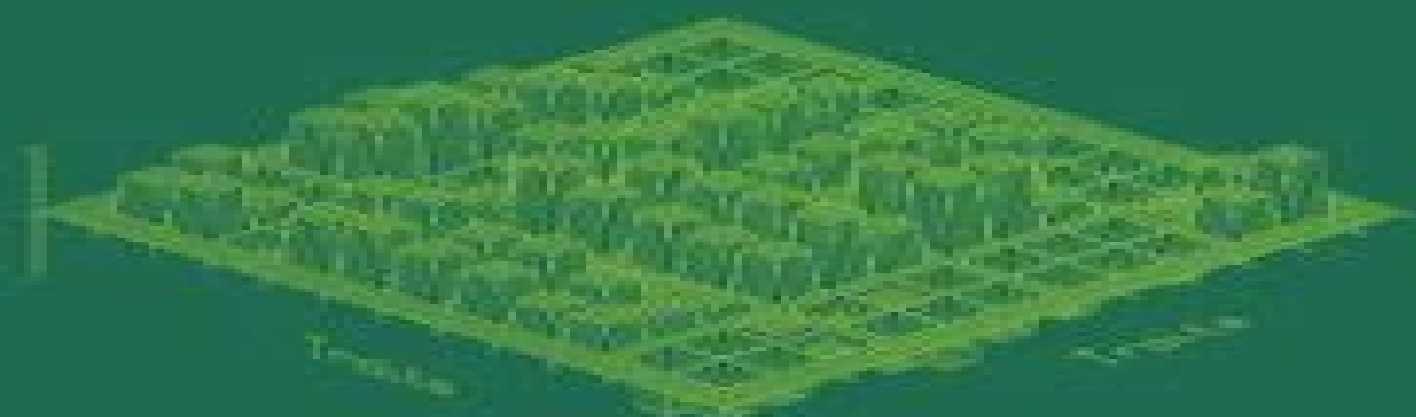


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# Evolution and Genetics of Life Histories

Edited by  
Hugh Dingle and Joseph P. Hegmann



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# Evolution And Genetics Of Life Histories

**Shasha Hu**



## **Evolution And Genetics Of Life Histories:**

Evolution and Genetics of Life Histories Hugh Dingle, Joseph P. Hegmann, 2013-09-03

## **Evolution Of Life Histories**

Derek Roff, 1993-05-31 There are many different types of organisms in the world they differ in size physiology appearance and life history The challenge for evolutionary biology is to explain how such diversity arises The Evolution of Life Histories does this by showing that natural selection is the principal underlying force molding life history variation The book describes in particular the ways in which variation can be analyzed and predicted It covers both the genetic and optimization approaches to life history analysis and gives an overview of the general framework of life history theory and the mathematical tools by which predictions can be made and tested Factors affecting the age schedule of birth and death and the costs of reproduction are discussed The Evolution of Life Histories concentrates on those theoretical developments that have been tested experimentally It will interest both students and professionals in evolution evolutionary ecology mathematical and theoretical biology and zoology and entomology

**Evolution and Genetics in Life Histories** Hugh Dingle, J. P. Hegmann, 2013-07-11 This volume is the result of a symposium entitled Variation in Life Histories Genetics and Evolutionary Processes sponsored by the Program in Evolutionary Ecology and Behavior of the University of Iowa and held in Iowa City on October 13 and 14 1980 Prompted by a recent upsurge of interest in the evolution of life histories we chose this topic because of the obvious association between life history traits and Darwinian fit ness If such an association were to be fruitfully investigated it would require the closer cooperation of population and evolutionary ecologists and quantitative and population geneticists To encourage such an association our symposium had four major aims first to facilitate intellectual exchange across disciplines among an array of biologists studying life histories second to encourage exploration of genetic variance and covari ance for life history traits third to consider the ecological background for genetic vari ability and finally to facilitate a comparative overview both within and among species Obviously such broad aims cannot be met totally in a single volume but we think we have succeeded reasonably well in providing a representative and nourishing intel lectual feast We see this book as a stimulus to the coordination of future efforts in an important and expanding area of inquiry We have divided the book into six sections

**Evolution and Genetics in Life Histories** H. Dingle, J. P. Hegmann, 2012-12-06

This volume is the result of a symposium entitled Variation in Life Histories Genetics and Evolutionary Processes sponsored by the Program in Evolutionary Ecology and Behavior of the University of Iowa and held in Iowa City on October 13 and 14 1980 Prompted by a recent upsurge of interest in the evolution of life histories we chose this topic because of the obvious association between life history traits and Darwinian fit ness If such an association were to be fruitfully investigated it would require the closer cooperation of population and evolutionary ecologists and quantitative and population geneticists To encourage such an association our symposium had four major aims first to facilitate intellectual exchange across disciplines among an array of biologists studying life histories second to encourage exploration of genetic variance and covari ance for

life history traits third to consider the ecological background for genetic variability and finally to facilitate a comparative overview both within and among species Obviously such broad aims cannot be met totally in a single volume but we think we have succeeded reasonably well in providing a representative and nourishing intellectual feast We see this book as a stimulus to the coordination of future efforts in an important and expanding area of inquiry We have divided the book into six sections

**Life History Evolution** Michal Segoli, Eric Wajnberg, 2025-03-10 Provides a timely and authoritative account of Life History Evolution by a multidisciplinary team of scholars and researchers from around the world Life History Evolution Traits Interactions and Applications presents a cutting edge synthesis of the mechanisms driving life history strategies that span the breadth of taxa from bacteria to humans Integrating classical and contemporary perspectives this comprehensive volume addresses how organisms evolve traits in response to diverse ecological pressures Editors Michal Segoli and Eric Wajnberg bring together leading experts to explore the intersection of evolutionary biology ecology and applied research focusing on the evolving complexity of life history traits and their implications In depth yet accessible chapters cover a broad spectrum of life history traits from classical traits of lifespan and reproduction to more complex interactions like social behaviour predator prey dynamics and human induced evolutionary processes The contributing authors explain essential concepts identify critical knowledge gaps discuss future research directions and demonstrate the relevance of life history evolution in addressing climate change species invasion pollution and more Providing a well balanced understanding of life history traits and their implications Life History Evolution Incorporates recent advances in evolutionary theory including eco evolutionary feedback loops and anthropogenic impacts Offers diverse perspectives and original research from leading experts in fields such as evolutionary biology ecology entomology zoology agriculture and veterinary medicine Discusses life history evolution in the context of co evolved interactions such as predator prey parasite host plant herbivore and endosymbiont host relationships Provides an overview of the foundational theory recent developments and current thinking in the field Features numerous case studies that highlight real world applications in biological control wildlife management climate change adaptation and others Revealing how life history traits shape the evolutionary strategies of organisms Life History Evolution Traits Interactions and Applications is an essential resource for undergraduate and graduate students researchers industry professionals and policymakers in ecological science It is an ideal textbook for courses in evolutionary ecology evolutionary biology conservation biology environmental science and environmental management

**Mechanisms of Life History Evolution** Thomas Flatt, Andreas Heyland, 2011-05-12 Life history theory seeks to explain the evolution of the major features of life cycles by analyzing the ecological factors that shape age specific schedules of growth reproduction and survival and by investigating the trade offs that constrain the evolution of these traits Although life history theory has made enormous progress in explaining the diversity of life history strategies among species it traditionally ignores the underlying proximate mechanisms This novel book argues that many fundamental problems in life history evolution including the nature

of trade offs can only be fully resolved if we begin to integrate information on developmental physiological and genetic mechanisms into the classical life history framework Each chapter is written by an established or up and coming leader in their respective field they not only represent the state of the art but also offer fresh perspectives for future research The text is divided into 7 sections that cover basic concepts Part 1 the mechanisms that affect different parts of the life cycle growth development and maturation reproduction and aging and somatic maintenance Parts 2 4 life history plasticity Part 5 life history integration and trade offs Part 6 and concludes with a synthesis chapter written by a prominent leader in the field and an editorial postscript Part 7

**Mechanisms of Life History Evolution** Thomas Flatt, Andreas Heyland, 2011-05-12 This interdisciplinary volume unites evolutionary and molecular biologists from various fields life history theory molecular biology developmental biology aging phenotypic plasticity social behaviour and endocrinology who use studies of molecular mechanisms to solve fundamental questions in life history evolution in a variety of organisms

**Primate Life Histories and Socioecology** Peter M. Kappeler, Michael E. Pereira, 2003-02 We know a great deal about roles the environment plays in shaping survival reproductive success and even social systems among primates But how do primate life histories affect social systems and vice versa Do baboons patterns of growth for example help to structure their societies Does fission fusion sociality interact with predator pressure to influence the timing of maturation in chimpanzees Exploring these issues and many others the contributors to Primate Life Histories and Socioecology provide the first systematic attempt to understand relationships among primate life histories ecology and social behavior conjointly Topics covered include how primate life histories interact with rates of evolution predator pressure and diverse social structures how the slow maturation of primates affects the behavior of both young and adult caregivers and reciprocal relationships between large brains and increased social and behavioral complexity The first collection of its kind this book will interest a wide range of researchers from anthropologists and evolutionary biologists to psychologists and ecologists Contributors Paul Michael Agapow Susan C Alberts Jeanne Altmann Robert A Barton Nicholas G Blurton Jones Robert O Deaner Robin I M Dunbar J rg U Ganzhorn Laurie R Godfrey Kristen Hawkes Nick J B Isaac Charles H Janson Kate E Jones William L Jungers Peter M Kappeler Susanne Klaus Phyllis C Lee Steven R Leigh Robert D Martin James F O Connell Sylvia Ortmann Michael E Pereira Andy Purvis Caroline Ross Karen E Samonds Jutta Schmid Stephen C Stearns Michael R Sutherland Carel P van Schaik and Andrea J Webster

**Insect Life History Patterns** R. F. Denno, H. Dingle, 2012-12-06 This volume results from a symposium entitled Species and Ufe History Patterns Geographic and Habitat Variation held during the National Meeting of the Entomological Society of America in Denver Colorado USA in November 1979 The stimulus to assemble papers on this theme emerged from continuing discussions with colleagues concerning controversies in ecology and evolutionary biology namely those associated with plant herbivore interactions life history theory and the equilibrium status of communities The study organisms used in this series of reports are all either herbivorous insects or those intimately associated with plants In this

volume we stress the variation found in life history traits and address some of the problems inherent in current life history theory. We include as life history traits not only traditional variables such as fecundity, size of young, and age to first and peak reproduction, but also diapause and migration traits that synchronize reproduction with favorable plant resources. Because life history traits of phytophagous insects are influenced in part by spatial and temporal variation in the quality and availability of their host plants, we also consider the role that discontinuities in plant quality play in reducing insect fitness. Lastly, much of the traditional life history theory concerns itself with differences between the evolution of traits or constellations of traits when populations incur primarily density-independent compared to density-dependent mortality. Consequently, we address this issue and attempt to shed light on the equilibrium status of several phytophagous insect communities.

**Life History Evolution in Plants** Timo Olavi Vuorisalo, P. Mutikainen, 1999-07-31 In the last two decades, research on plant life histories has made impressive progress. Nevertheless, an up-to-date overview covering all the main branches of plant life history research has been lacking. The purpose of the present volume is to fill this gap in the current ecological literature. The ten chapters cover a wide range of topics including genetic variation in life history traits, modularity, resource and sex allocation, effects of pathogens and herbivores on life history traits, evolution of dispersal, senescence, and important methods used in plant life history research including demographic and optimality models and game theory. All authors are leading experts in their fields, and the book is recommended as a textbook for undergraduate and graduate levels.

**Life History Evolution** Derek A. Roff, 2002 Life History Evolution represents a synthetic approach to the understanding of the evolution of life history variation using the three types of environment: constant, stochastic, and predictable as the focus under which the theory is developed and tested. First, the author outlines a general framework for the study and analysis of life history variation, bringing together the approaches of quantitative genetic modeling and optimality analysis. Using this framework, he then discusses how life histories evolve in the three different types of environments, each of which presents unique characteristics. The theme of the book is that an understanding of evolutionary change requires analysis at both the genetic and phenotypic levels and that the environment plays a central role in such analyses. Intended for graduate students and researchers, the book's emphasis is on assumptions and testing of models. Mathematical processes are described, but mathematical derivations are kept to a minimum. Each chapter includes a summary, and boxes provide supplementary material.

**Life Histories** Martin Thiel, Gary A. Wellborn, 2018-05-22 Crustaceans are increasingly being used as model organisms in all fields of biology, including neurobiology, developmental biology, animal physiology, evolutionary ecology, biogeography, and resource management. Crustaceans have a very wide range of phenotypes and inhabit a diverse array of environments, ranging from the deep sea to high mountain lakes and even deserts. The evolution of their life histories has permitted crustaceans to successfully colonize this variety of habitats. Few other taxa exhibit such a variety of life histories and behavior. A comprehensive overview of their life histories is essential to the understanding of many aspects of their

success in marine and terrestrial environments This volume provides a general overview of crustacean life histories Crustaceans have particular life history adaptations that have permitted them to conquer all environments on earth Crustacean life cycles have evolved to maximize fecundity growth and ageing in a wide range of environmental conditions Individual contributions contrast benefits and costs of different life histories including sexual versus asexual production semelparity versus iteroparity and planktonic larvae versus direct development Important aspects of particular behaviors are presented e g migrations defense and territorial behaviors anti predator behavior symbiosis *Encyclopedia of Ecology* Brian D. Fath, 2018-08-23 *Encyclopedia of Ecology* Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes **Advances in Ecological Research**, 1991-07-22 This volume contains five papers dealing with a wide range of plant animal and soil biological topics Gray and his colleagues describe the origin and spread of the salt marsh grass *Spartina anglica* The result of a hybridization at the close of the last century this genetically uniform species has been extremely successful in its particular niche and has a fascinating biology Smith stresses the importance of gene environment interactions in life history theory in contrast to the resource constraint emphasis of the optimization approach Experimental approaches to the subject are also discussed Chanway and his colleagues examine the evidence for the importance of interactions between plants and micro organisms in the rhizosphere in determining the outcome of plant competition and the establishment of community structure Despite scarce evidence real effects meriting further research do seem to exist Brundrett also deals with an aspect of ecology in the soil Most plants seem to have mycorrhizal associates and their importance is now widely appreciated Much has been learned but more research is needed to determine the beneficial or after effects of mycorrhizae in natural systems Richter and Babar review the diversity of tropical soils They are in fact much more variable than is often thought perhaps because too few ecologists are specialists in soils Clearly a proper knowledge and understanding of the many soil types is vital to conservation and development work in the tropics Serves as the fourth volume under new editorial direction Presents a broad range of topical papers in ecology

Contains five papers dealing with a wide range of plant animal and soil biological topics      *Genetic and Maternal Influences on Life History Plasticity in the Migratory Insects, Oncopeltus Fasciatus (Hemiptera: Lygaeidae) and Aphis Nerii (Homoptera: Aphididae)*. Francis Richard Groeters,1988      *Insect Flight* Wijesiri Danthanarayana,2012-12-06      **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      **Ecological Genetics** Leslie Real,2017-03-14 This volume represents work by five distinguished ecological geneticists offering an up to date source for theoretical concepts and experiments in an exciting field Combining ecological fieldwork and laboratory genetics ecological genetics examines the adjustments and adaptations of wild populations to their environments Articles focus on important interactions between genetics and population ecology delving into issues like gene flow and migration population differentiation the maintenance of genetic variation and the demographic and spatial structure of populations The contributors Janis Antonovics Michael Lynch Montgomery Slatkin Joseph Travis and Sara Via emphasize the importance of population size and structure interaction between local selection and genetic drift and an expanded phenotype including quantitative as well as qualitative characters This new form of ecological genetics focuses on large scale geographic variation in demographic and genetic dynamics among small partially isolated populations and will prove extremely valuable in natural resource management and in rare or endangered species conservation Originally published in 1994 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905      *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 scholarly 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      **Genetic Effects on Aging** David E. Harrison,1990-08-09 This volume provides background knowledge useful to those setting out to do genetic studies of aging in mammals and raises vital questions How many genes are important in mammalian aging What are the optimal methods for their study To what degree are patterns of aging and patterns of growth and development part of the same process Do patterns of development predict subsequent patterns of growth and aging Are there a few fundamental aging processes or does every biological system age The rapid rate of progress in this field required a new volume with a new approach based on the combination of classical genetics and the powerful new tools of molecular genetics Although mammalian systems are emphasized representatives of the advanced genetic studies in Drosophila and other model systems are included The purpose is to enrich and stimulate genetic studies of mammalian aging by suggesting and evaluating future possibilities

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