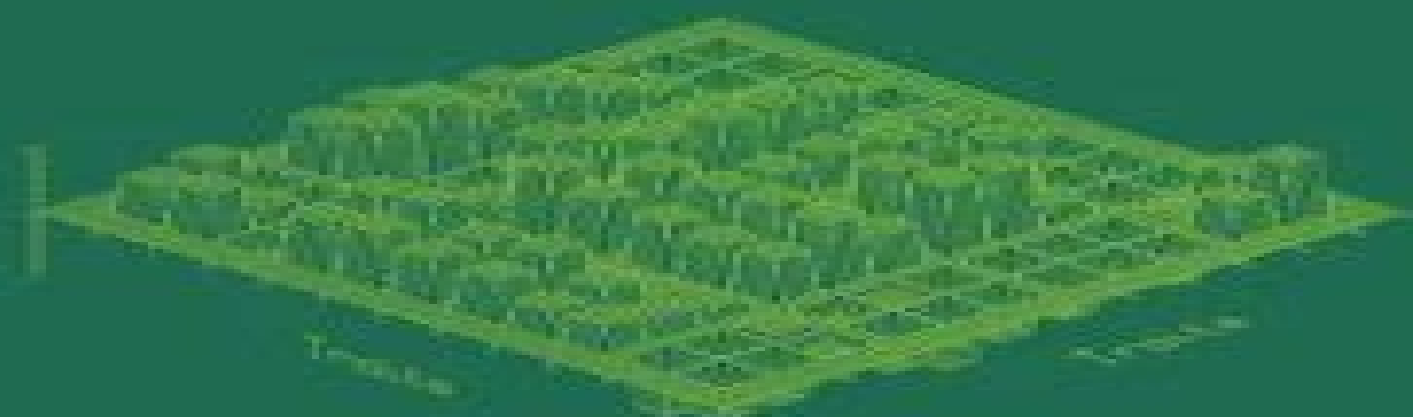

Evolution and Genetics of Life Histories

Edited by
Hugh Dingle and Joseph P. Hegmann



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Evolution And Genetics Of Life Histories

Milton Davis Huettel



Evolution And Genetics Of Life Histories:

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

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

Evolution Of Life Histories Derek Roff, 1993-04-30 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

The Evolution of Insect Life Cycles Fritz Taylor, Richard Karban, 2012-12-06 This book was developed out of a symposium at the XVII International Congress of Entomology held in Hamburg Germany on August 21 1984 This symposium was organized by Drs William Bradshaw and Hugh Dingle who subsequently asked us to edit the proceedings The chapters represent for the most part papers that were read in Hamburg but have been expanded and updated The goal of this volume is to provide a comprehensive view of current research on insect life cycles including field and laboratory studies broad comparisons among species or local populations and intensive studies of single populations as well as theoretical research Of necessity given the magnitude of research now being carried out on insects some important research programs are not included and therein lie the makings of future volumes This volume is divided into three parts The first part Geographical Patterns in Insect Life Cycles explores various applications of a comparative method that has been valuable in investigating the potential for variability in life history parameters and the relation of these parameters to important variables in the environment

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 Steams 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.

Life History Evolution Steven C. Hertler, Aurelio José Figueredo, Mateo Peñaherrera-Aguirre, Heitor B. F. Fernandes, Michael A. Woodley of Menie, 2018-07-04. The social sciences share a mission to shed light on human nature and society. However, there is no widely accepted meta-theory, no foundation from which variables can be linked causally, sequenced, or ultimately explained. This book advances life history evolution as the missing meta-theory for the social sciences. Originally a biological theory for the variation between species, research on life history evolution now encompasses psychological and sociological variation within the human species, that has long been the stock and trade of social scientific study. The eighteen chapters of this book review six disciplines; eighteen authors and eighty-two volumes published between 1734 and 2015, re-reading the texts in the light of life history evolution.

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

Evolutionary Genetics of Invertebrate Behavior Milton Davis Huettel, 2013-11-11 In the preface to Sir Vincent B Wigglesworth's classic 1939 book on insect physiology he asserted that insects provide an ideal medium in which to study all the problems of physiology A strong case can be made as well for the use of insects as significant systems for the study of behavior and genetics Contributions to genetics through decades of research on *Drosophila* species have made this small fly the most important metazoan in genetics research At the same time population and behavioral research on insects and other invertebrates have provided new perspectives that can be combined with the genetics approach Through such integrated research we are able to identify evolutionary genetics of behavior as a highly significant emerging area of interest These perspectives are ably described by Dr Guy Bush in the introductory chapter of this book During March 21-24 1983 many of the world's leading scientists in invertebrate behavioral genetics were drawn together in Gainesville Florida for a colloquium entitled Evolutionary Genetics of Invertebrate Behavior This conference was sponsored jointly by the Department of Entomology and Nematology University of Florida chaired by Dr Daniel Shankland and the Insect Attractants Behavior and Basic Biology Research Laboratory U S Department of Agriculture directed then by Dr Derrell Chambers

Insect Flight Wijesiri Danthanarayana, 2012-12-06 **Desert Arthropods: Life History Variations** Fred Punzo, 2013-03-14 It is difficult for me to recollect a time when I was not fascinated with the very notion of a desert Walt Disney's film *The Living Desert* which I initially saw when I was 8 years of age provided me with my first glimpse of this wondrous yet seemingly hostile environment The images were hypnotic and captivating I looked on in amazement at the promenade *Cl deus* of the male and female scorpions during courtship Their rhythmic and coordinated movements as they grasped one another made them appear to glide in unison over the surface of the sand each individual totally absorbed with its partner In the next minute the female had suddenly and utterly transformed herself like some Jekyll and Hyde act into an aggressive predator whose prior gregarious embrace was now a hold of death for the male The indomitable desert grasshopper mouse the ever sentient kit fox the graceful shovel nosed snake swimming in an endless sea of sand

Genetics and Evolution of Aging Michael R. Rose, Caleb E. Finch, 2013-03-09 Aging is one of those subjects that many biologists feel is largely unknown Therefore they often feel comfortable offering extremely facile generalizations that are either unsupported or directly refuted in the experimental literature Despite this unfortunate precedent aging is a very

broad phenomenon that calls out for integration beyond the mere collecting together of results from disparate laboratory organisms With this in mind Part One offers several different synthetic perspectives The editors Rose and Finch provide a verbal synthesis of the field that deliberately attempts to look at aging from both sides the evolutionary and the molecular The articles by Charlesworth and Clark both provide population genetic perspectives on aging the former more mathematical the latter more experimental Bell takes a completely different approach arguing that aging may not be the result of evolutionary forces Bell's model instead proposes that aging could arise from the progressive deterioration of chronic host pathogen interactions This is the first detailed publication of this model It marks something of a return to the type of aging theories that predominated in the 1950's and 1960's theories like the somatic mutation and error catastrophe theories We hope that the reader will be interested by the contrast in views between the articles based on evolutionary theory and that of Bell MR Rose and C E Finch eds *Genetics and Evolution of Aging* 5 12 1994 1994 Kluwer Academic Publishers The J aniform genetics of aging 2 Michael R Rosel Caleb E **Quantitative Genetic Studies of Behavioral Evolution** Christine R. B. Boake, 1994-08-15 Taken together these studies document both the benefits and pitfalls of quantitative genetics

Ecological and Evolutionary Genetics of Drosophila J.S.F. Barker, William T. Starmer, Ross J. MacIntyre, 2013-03-14 Ecological and evolutionary genetics span many disciplines and virtually all levels of biological investigation from the genetic information itself to the principles governing the complex organization of living things The ideas and information generated by ecological and evolutionary genetics provide the substance for strong inferences on the origins changes and patterns of structural and functional organization in biological communities It is the coordination of these ideas and thoughts that will provide the answers to many fundamental questions in biology There is no doubt that Drosophilids provide strong model systems amenable to experimental manipulation and useful for testing pertinent hypotheses in ecological and evolutionary genetics The chapters in this volume represent efforts to use Drosophila species for such a purpose The volume consists of a dedication to William B Heed followed by four major sections Ecological Genetics Habitat Selection Biochemical Genetics and Molecular Evolution Each section is introduced by a short statement and each chapter has an independent summary The chapters contain the substance of talks given at a joint Australia US workshop held January 5 10 1989 at the University of New England New South Wales Australia We are indebted to the Division of International Programs of the National Science Foundation USA and to the Science and Technology Collaboration Section of the Department of Industry Technology and Commerce Australia for the provision of financial support under the US Australia Science and Technology Agreement Many people contributed to the preparation of this volume *Migration and the Evolution of Life Histories of the Threespine Stickleback (Gasterosteus Aculeatus L.)*. Randal Jay Snyder, 1988 **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

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

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

Whispering the Techniques of Language: An Psychological Journey through **Evolution And Genetics Of Life Histories**

In a digitally-driven world where monitors reign great and immediate connection drowns out the subtleties of language, the profound strategies and psychological subtleties concealed within words often move unheard. Yet, situated within the pages of **Evolution And Genetics Of Life Histories** a interesting fictional prize blinking with raw emotions, lies a fantastic quest waiting to be undertaken. Published by an experienced wordsmith, this marvelous opus encourages readers on an introspective journey, lightly unraveling the veiled truths and profound affect resonating within the very material of each word. Within the emotional depths of this poignant evaluation, we shall embark upon a genuine exploration of the book is core subjects, dissect its charming writing design, and succumb to the powerful resonance it evokes serious within the recesses of readers hearts.

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