

Sex Color And Mate Choice In Guppies

The Evolution of Beauty Richard O. Prum 2017-05-09 A FINALIST FOR THE PULITZER PRIZE NAMED A BEST BOOK OF THE YEAR BY THE NEW YORK TIMES BOOK REVIEW, SMITHSONIAN, AND WALL STREET JOURNAL A major reimagining of how evolutionary forces work, revealing how mating preferences—what Darwin termed "the taste for the beautiful"—create the extraordinary range of ornament in the animal world. In the great halls of science, dogma holds that Darwin's theory of natural selection explains every branch on the tree of life: which species thrive, which wither away to extinction, and what features each evolves. But can adaptation by natural selection really account for everything we see in nature? Yale University ornithologist Richard Prum—reviving Darwin's own views—thinks not. Deep in tropical jungles around the world are birds with a dizzying array of appearances and mating displays: Club-winged Manakins who sing with their wings, Great Argus Pheasants who dazzle prospective mates with a four-foot-wide cone of feathers covered in golden 3D spheres, Red-capped Manakins who moonwalk. In thirty years of fieldwork, Prum has seen numerous display traits that seem disconnected from, if not outright contrary to, selection for individual survival. To explain this, he dusts off Darwin's long-neglected theory of sexual selection in which the act of choosing a mate for purely aesthetic reasons—for the mere pleasure of it—is an independent engine of evolutionary change. Mate choice can drive ornamental traits from the constraints of adaptive evolution, allowing them to grow ever more elaborate. It also sets the stakes for sexual conflict, in which the sexual autonomy of the female evolves in response to male sexual control. Most crucially, this framework provides important insights into the evolution of human sexuality, particularly the ways in which female preferences have changed

male bodies, and even maleness itself, through evolutionary time. The Evolution of Beauty presents a unique scientific vision for how nature's splendor contributes to a more complete understanding of evolution and of ourselves.

Evolutionary Ecology of Neotropical Freshwater Fishes T.M. Zaret 2013-11-09 In August of 1980, near the whistlestop of Maltby, Surely, we would plead, the U. S. A. , a wealthy Washington, Don Stewart and I met in my rented nation, can fund our proposal if only as a gesture of house trailer to sketch a proposal to the National support to foreign scientists. Somehow, however, Science Foundation. Our goal was simple: to re we seemed to miss deadlines, fall in-between the quest from the Foundation air fare and per diem for cracks, and miss the right connections. It was not approximately 20 Latin American scientists to at until May, 1982, several weeks before the proposed tend a workshop entitled the 'Systematics and workshop, that we realized we could not find any Evolutionary Ecology of Neotropical Freshwater funds for bringing Latin American scientists to the Fishes' that would follow the 1982 ASIH (Ameri U. S. The programs for the meeting had been can Society of Ichthyologists and Herpetologists) printed, the meal coupons, banquet tickets, and all meeting. We had presented an initial outline for our the other amenities that come with a professional proposal to a number of colleagues in . June of 1980 meeting were ready, but we had no Latin American at the ASIH meeting at Texas Christian University ichthyologists as participants. Some abstracts were in Fort Worth, Texas. The steering committee for being received by the program organizers, but the workshop, consisting of a dozen senior scien without U. S. [A Most Interesting Problem](#) Jeremy DeSilva 2021-01-12 "In 1859, Charles Darwin proposed a mechanism for biological evolution in his most famous work, On the Origin of Species. However, Origin makes little mention of humans. Despite this, Darwin thought deeply about humans and in 1871 published The Descent of Man,

his influential and controversial book in which he applied evolutionary theory to humans and detailed his theory of sexual selection. February 2021 will mark the 150th anniversary of its publication. In [this book], twelve leading anthropologists, biologists, and journalists revisit *The Descent*. Following the same organization as the first edition of *Descent* --less the large section on sexual selection--each author reviews what Darwin wrote in *Descent*, comparing his words to what we now know"--

Handbook of Color Psychology Andrew J. Elliot 2015-12-17 We perceive color everywhere and on everything that we encounter in daily life. Color science has progressed to the point where a great deal is known about the mechanics, evolution, and development of color vision, but less is known about the relation between color vision and psychology. However, color psychology is now a burgeoning, exciting area and this Handbook provides comprehensive coverage of emerging theory and research. Top scholars in the field provide rigorous overviews of work on color categorization, color symbolism and association, color preference, reciprocal relations between color perception and psychological functioning, and variations and deficiencies in color perception. The Handbook of Color Psychology seeks to facilitate cross-fertilization among researchers, both within and across disciplines and areas of research, and is an essential resource for anyone interested in color psychology in both theoretical and applied areas of study.

The Behavior of Animals Johan J. Bolhuis 2021-12-29 The Behavior of Animals An updated view of animal behavior studies, featuring global experts *The Behavior of Animals*, Second Edition provides a broad overview of the current state of animal behavior studies with contributions from international experts. This edition includes new chapters on hormones and behavior, individuality, and human evolution. All chapters have been thoroughly revised and updated, and are supported by color illustrations, informative callouts, and accessible presentation of technical information.

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Provides an introduction to the study of animal behavior Looks at an extensive scope of topics- from perception, motivation and emotion, biological rhythms, and animal learning to animal cognition, communication, mate choice, and individuality.

Explores the evolution of animal behavior including a critical evaluation of the assumption that human beings can be studied as if they were any other animal species. Students will benefit from an updated textbook in which a variety of contributors provide their expertise and global perspective in specialized areas
Phenotypic Integration Massimo Pigliucci 2004 The interface of evolution and development has attracted the attention of evolutionary and developmental biologists, geneticists, and organismal biologists. Pigliucci (ecology, evolutionary biology, University of Tennessee) and Preston (botany, Stanford University) bring together work by experts in the field of phenotype integration, shedding light.

Sexual Selection Malte Andersson 2019-12-31 Bright colors, enlarged fins, feather plumes, song, horns, antlers, and tusks are often highly sex dimorphic. Why have males in many animals evolved more conspicuous ornaments, signals, and weapons than females? How can such traits evolve although they may reduce male survival? Such questions prompted Darwin's perhaps most scientifically controversial idea--the theory of sexual selection. It still challenges researchers today as they try to understand how competition for mates can favor the variety of sex-dimorphic traits. Reviewing theoretical and empirical work in this very active field, Malte Andersson, a leading contributor himself, provides a major up-to-date synthesis of sexual selection. The author describes the theory and its recent development; examines models, methods, and empirical tests; and identifies many unsolved problems. Among the topics discussed are the selection and evolution of mating preferences; relations between sexual selection and speciation; constraints on sexual selection; and sex differences in signals, body size, and weapons. The rapidly

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growing study of sexual selection in plants is also reviewed. This volume will interest students, teachers, and researchers in behavioral ecology and evolutionary biology.

Evolutionary Ecology Anne E. Magurran 2005-08-25 The Trinidadian guppy represents a uniquely tractable vertebrate system, which has raised key questions in evolutionary ecology and supplied many of the answers. This work discusses this study and incorporates significant new findings and insights.

Proceedings 2005

Alternative Reproductive Tactics Rui F. Oliveira 2008-03-13 The study of alternative reproductive tactics (the behavioural strategies used by individuals to increase their reproductive success) is an evolutionary puzzle, and one of great interest to researchers. For instance, why do some males guard both nest and eggs, while others sneak into nests while pairs are spawning and fertilise those eggs? The field offers a special opportunity to study the evolution and functional causes of phenotypic variation, which is a general problem in the field of evolutionary biology. By integrating both mechanistic (psychological) and evolutionary (behavioural ecology) perspectives and by covering a great diversity of species, *Alternative Reproductive Tactics* addresses this integrated topic of longstanding interest, bringing together a multitude of otherwise scattered information in an accessible form that is ideal for graduate students and researchers.

Behavioral Ecology of Tropical Animals Regina H. Macedo 2010-11-15 *Advances in the Study of Behavior* was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior. That number is still expanding. This thematic volume makes another important "contribution to the development of the field" by bringing together material that aggregates studies conducted on the behavior of tropical animals. *Advances in the Study of Behavior* is now available online at ScienceDirect--full-text online from volume 30 onward.

Female Control William G. Eberhard 1996 Evidence from various

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fields indicates that such selectivity by females may be the norm rather than the exception. Because most postcopulatory competition among males for paternity is played out within the bodies of females, female behavior, morphology, and physiology probably often influence male success in these contests, Eberhard draws examples from a diversity of organisms, ranging from ctenophores to scorpions, nematodes to frogs, and crickets to humans.

Encyclopedia of Fish Physiology 2011-06-01 Fish form an extremely diverse group of vertebrates. At a conservative estimate at least 40% of the world's vertebrates are fish. On the one hand they are united by their adaptations to an aquatic environment and on the other they show a variety of adaptations to differing environmental conditions - often to extremes of temperature, salinity, oxygen level and water chemistry. They exhibit an array of behavioural and reproductive systems.

Interesting in their own right, this suite of adaptive physiologies provides many model systems for both comparative vertebrate and human physiologists. This four volume encyclopedia covers the diversity of fish physiology in over 300 articles and provides entry level information for students and summary overviews for researchers alike. Broadly organised into four themes, articles cover Functional, Thematic, and Phylogenetic Physiology, and Fish Genomics. Functional articles address the traditional aspects of fish physiology that are common to all areas of vertebrate physiology including: Reproduction, Respiration, Neural (Sensory, Central, Effector), Endocrinology, Renal, Cardiovascular, Acid-base Balance, Osmoregulation, Ionoregulation, Digestion, Metabolism, Locomotion, and so on. Thematic Physiology articles are carefully selected and fewer in number. They provide a level of integration that goes beyond the coverage in the Functional Physiology topics and include discussions of Toxicology, Air-breathing, Migrations, Temperature, Endothermy, etc.

Phylogenetic Physiology articles bring together information that

bridges the physiology of certain groupings of fishes where the knowledge base has a sufficient depth and breadth and include articles on Ancient Fishes, Tunas, Sharks, etc. Genomics articles describe the underlying genetic component of fish physiology and high light their suitability and use as model organisms for the study of disease, stress and physiological adaptations and reactions to external conditions. Winner of a 2011 PROSE Award Honorable Mention for Multivolume Science Reference from the Association of American Publishers The definitive encyclopedia for the field of fish physiology Three volumes which comprehensively cover the entire field in over 300 entries written by experts Detailed coverage of basic functional physiology of fishes, physiological themes in fish biology and comparative physiology amongst taxonomic Groups Describes the genomic bases of fish physiology and biology and the use of fish as model organisms in human physiological research Includes a glossary of terms

Environmental Health Perspectives 2001-07

Guppy Color Strains Philip Shaddock 2010

Mate Choice Gil G. Rosenthal 2017-07-18 A major new look at the evolution of mating decisions in organisms from protozoans to humans The popular consensus on mate choice has long been that females select mates likely to pass good genes to offspring. In *Mate Choice*, Gil Rosenthal overturns much of this conventional wisdom. Providing the first synthesis of the topic in more than three decades, and drawing from a wide range of fields, including animal behavior, evolutionary biology, social psychology, neuroscience, and economics, Rosenthal argues that "good genes" play a relatively minor role in shaping mate choice decisions and demonstrates how mate choice is influenced by genetic factors, environmental effects, and social interactions. Looking at diverse organisms, from protozoans to humans, Rosenthal explores how factors beyond the hunt for good genes combine to produce an endless array of preferences among species and individuals. He

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explains how mating decisions originate from structural constraints on perception and from nonsexual functions, and how single organisms benefit or lose from their choices. Both the origin of species and their fusion through hybridization are strongly influenced by direct selection on preferences in sexual and nonsexual contexts. Rosenthal broadens the traditional scope of mate choice research to encompass not just animal behavior and behavioral ecology but also neurobiology, the social sciences, and other areas. Focusing on mate choice mechanisms, rather than the traits they target, *Mate Choice* offers a groundbreaking perspective on the proximate and ultimate forces determining the evolutionary fate of species and populations.

Genetics of Mate Choice: From Sexual Selection to Sexual Isolation W.J. Etges 2012-12-06

Genetic studies aimed at understanding the origin of species are dominating major scientific journals. In the past decade, genetic tools that were previously available only in model systems have become accessible to investigators working on nearly all species. Concurrent with these technical advances has been an increase in understanding of both the importance of considering the ecological context of speciation and testing hypotheses about causes for species formation. Many recent studies suggest a prominent role of sexual selection in species formation. These advances have produced a need for a synthesis of what we now understand about speciation, and perhaps more importantly, where we should go from here. In this volume, several leading investigators and rising stars have contributed reviews and/or novel primary research findings aimed at understanding the ultimate mystery on which Darwin named his most famous and influential book. Fundamental to the origin of species is the evolution of mate choice systems. This collection of papers discusses burgeoning genetic, evolutionary, and ecological approaches to understanding the origins of mating discrimination and causes of premating reproductive isolation both within and

between species. The individual contributions span a wide spectrum of disciplines, taxa, and ideas (some controversial). This synthesis brings together several of the most recent ideas with supporting empirical data. This book will be of particular interest to both undergraduate and postgraduate researchers and students and researchers in the field of evolutionary biology, genetics and animal behaviour.

Reproductive Biology and Phylogeny of Fishes, Vol 8B: Part B: Sperm Competition Hormones Barrie G M Jamieson 2019-09-12

The animals loosely termed fish constitute more than half of all known vertebrate species. There are approximately 27,000 described living species of bony fishes (Euteleostomi = Osteichthyes), about 70 species of hagfishes and some 34 species of lampreys. Approximately 970 species are chondrichthyans, the sharks and their relatives, which were the subject of volume 3 in this series. It is perhaps because fishes live in a buoyant medium, whether it be fresh or sea water, that they show a diversity in body shapes that is unparalleled by other vertebrates. There is also a unique diversity in the modes of reproduction, whether by external or internal fertilization, and this, with the morphology and fine structure of the reproductive system and its components, is the subject of Part A. Part B deals with complementary topics: testes, sperm, and sperm competition; endocrinology of reproduction; pheromones and reproduction; copulatory structures: taxonomic overview and the potential for sexual selection; sexual selection: signaling and courtship; adaptation and evolution of reproductive mode in copulating cottoid species; fertilization; sex determination; parental care; reproduction in relation to conservation and exploitation of marine fishes; Cryopreservation of Gametes; Embryogenesis and Development; and Molecular Genetics of Development.

Sex, Color, and Mate Choice in Guppies Anne Houde 2019-12-31

The Trinidadian guppy (*Poecilia reticulata*) is well known to biologists and home aquarium enthusiasts alike. Scientists have

studied guppies for most of the twentieth century. Some of the most intensive recent research has been conducted by behavioral ecologists, who have found that the guppy mating system makes guppies especially useful in the study of sexual selection and mate choice. By observing guppy behavior in aquaria, researchers hope to obtain new insights into how selection operates in natural populations. Here Anne Houde summarizes and synthesizes the scientific work done to date, relates the empirical findings on guppies to current themes in sexual selection theory, and suggests new directions for future research. This book describes the sexual behavior of guppies and examines how mate choice by females leads to the evolution of the conspicuous colors and the courtship displays for which guppies are widely recognized. The author shows that female guppies prefer males with bright color patterns, especially those with orange spots, and that the mating preferences of females lead to sexual selection on both color patterns and courtship displays of males. Houde's work addresses a number of areas that are of interest in sexual selection, including the remarkable degree of plasticity and evolutionary lability of sexual behavior in guppies, geographic variation in mating preferences, possible mechanisms for the evolution of female mating preferences, and the role of sexual selection in speciation. In conclusion, the author explores the implications of her findings for behavioral ecologists who study sexual selection in other species.

Fish Behaviour Carin Magnhagen 2008-01-09 Fishes are by far the most species-rich vertebrate taxon, and it is also the vertebrate group with the most strikingly diverse repertoire of behaviours and behavioural adaptations. As such, they provide us with many opportunities to explore the fascinating complexities of animal behaviour. Central questions addressed in this book include: How do se

Ecology and Evolution of Livebearing Fishes (Poeciliidae) Gary K. Meffe 1989

Mate Choice Gil G. Rosenthal 2017-07-18 A major new look at the evolution of mating decisions in organisms from protozoans to humans The popular consensus on mate choice has long been that females select mates likely to pass good genes to offspring. In *Mate Choice*, Gil Rosenthal overturns much of this conventional wisdom. Providing the first synthesis of the topic in more than three decades, and drawing from a wide range of fields, including animal behavior, evolutionary biology, social psychology, neuroscience, and economics, Rosenthal argues that "good genes" play a relatively minor role in shaping mate choice decisions and demonstrates how mate choice is influenced by genetic factors, environmental effects, and social interactions. Looking at diverse organisms, from protozoans to humans, Rosenthal explores how factors beyond the hunt for good genes combine to produce an endless array of preferences among species and individuals. He explains how mating decisions originate from structural constraints on perception and from nonsexual functions, and how single organisms benefit or lose from their choices. Both the origin of species and their fusion through hybridization are strongly influenced by direct selection on preferences in sexual and nonsexual contexts. Rosenthal broadens the traditional scope of mate choice research to encompass not just animal behavior and behavioral ecology but also neurobiology, the social sciences, and other areas. Focusing on mate choice mechanisms, rather than the traits they target, *Mate Choice* offers a groundbreaking perspective on the proximate and ultimate forces determining the evolutionary fate of species and populations.

Evolutionary Genetics R. S. Singh 2000-03-28 This book brings out the central role of evolutionary genetics in all aspects of its connection to evolutionary biology.

Evolutionary Ecology Anne E. Magurran 2005 The Trinidadian guppy represents a uniquely tractable vertebrate system, which has raised key questions in evolutionary ecology and supplied many of the answers. This work discusses this study and

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incorporates significant new findings and insights.

The Process of Animal Domestication Marcelo Sánchez-Villagra

2022-01-18 The first modern scholarly synthesis of animal domestication Across the globe and at different times in the past millennia, the evolutionary history of domesticated animals has been greatly affected by the myriad, complex, and diverse interactions humans have had with the animals closest to them. The Process of Animal Domestication presents a broad synthesis of this subject, from the rich biology behind the initial stages of domestication to how the creation of breeds reflects cultural and societal transformations that have impacted the biosphere. Marcelo Sánchez-Villagra draws from a wide range of fields, including evolutionary biology, zooarchaeology, ethnology, genetics, developmental biology, and evolutionary morphology to provide a fresh perspective to this classic topic. Relying on various conceptual and technical tools, he examines the natural history of phenotypes and their developmental origins. He presents case studies involving mammals, birds, fish, and insect species, and he highlights the importance of domestication for the comprehension of evolution, anatomy, ontogeny, and dozens of fundamental biological processes. Bringing together the most current developments, The Process of Animal Domestication will interest a wide range of readers, from evolutionary biologists, developmental biologists, and geneticists to anthropologists and archaeologists.

Handbook of Fish Biology and Fisheries Paul J. B. Hart

2008-04-15 Recent decades have witnessed strong declines in fish stocks around the globe, amid growing concerns about the impact of fisheries on marine and freshwater biodiversity. Fisheries biologists and managers are therefore increasingly asking about aspects of ecology, behaviour, evolution and biodiversity that were traditionally studied by people working in very separate fields. This has highlighted the need to work more closely together, in order to help ensure future success both in

management and conservation. The Handbook of Fish Biology and Fisheries has been written by an international team of scientists and practitioners, to provide an overview of the biology of freshwater and marine fish species together with the science that supports fisheries management and conservation. This volume, subtitled Fish Biology, reviews a broad variety of topics from evolutionary relationships and global biogeography to physiology, recruitment, life histories, genetics, foraging behaviour, reproductive behaviour and community ecology. The second volume, subtitled Fisheries, uses much of this information in a wide-ranging review of fisheries biology, including methods of capture, marketing, economics, stock assessment, forecasting, ecosystem impacts and conservation. Together, these books present the state of the art in our understanding of fish biology and fisheries and will serve as valuable references for undergraduates and graduates looking for a comprehensive source on a wide variety of topics in fisheries science. They will also be useful to researchers who need up-to-date reviews of topics that impinge on their fields, and decision makers who need to appreciate the scientific background for management and conservation of aquatic ecosystems. To order volume I, go to the box in the top right hand corner. Alternatively to order volume II, go

to: <http://www.blackwellpublishing.com/book.asp?ref=063206482>
X or to order the 2 volume set, go

to: <http://www.blackwellpublishing.com/book.asp?ref=063206483>

8. Provides a unique overview of the study of fish biology and ecology, and the assessment and management of fish populations and ecosystems. The first volume concentrates on aspects of fish biology and ecology, both at the individual and population levels, whilst the second volume addresses the assessment and management of fish populations and ecosystems. Written by an international team of expert scientists and practitioners. An invaluable reference tool for both students,

researchers and practitioners working in the fields of fish biology and fisheries.

Behavioural Ecology of Teleost Fishes Jean-Guy J. Godin 1997
The differing behaviours of bony fishes are described in this guide to the most abundant vertebrate found on the planet. Their behaviour and research done on it, have encouraged the proposal to adopt new approaches and new directions in studying them.
Ecology, Evolution, and Behavior of Viviparous Fishes J. Jaime Zúñiga-Vega 2022-02-24

The American Naturalist 2008

Advances in the Study of Behavior John C. Mitani 2010-08-02

Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior. That number is still expanding. This volume makes another important "contribution to the development of the field" by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields. Advances in the Study of Behavior is now available online at ScienceDirect full-text online from volume 30 onward.

Genetics of Mate Choice: From Sexual Selection to Sexual

Isolation W.J. Etges 2003-01-31 Genetic studies aimed at understanding the origin of species are dominating major scientific journals. In the past decade, genetic tools that were previously available only in model systems have become accessible to investigators working on nearly all species. Concurrent with these technical advances has been an increase in understanding of both the importance of considering the ecological context of speciation and testing hypotheses about causes for species formation. Many recent studies suggest a prominent role of sexual selection in species formation. These advances have produced a need for a synthesis of what we now understand about speciation, and perhaps more importantly, where we should go from here. In this volume, several leading investigators and rising stars have contributed reviews and/or

novel primary research findings aimed at understanding the ultimate mystery on which Darwin named his most famous and influential book. Fundamental to the origin of species is the evolution of mate choice systems. This collection of papers discusses burgeoning genetic, evolutionary, and ecological approaches to understanding the origins of mating discrimination and causes of premating reproductive isolation both within and between species. The individual contributions span a wide spectrum of disciplines, taxa, and ideas (some controversial). This synthesis brings together several of the most recent ideas with supporting empirical data. This book will be of particular interest to both undergraduate and postgraduate researchers and students and researchers in the field of evolutionary biology, genetics and animal behaviour.

Animal Signaling and Function Duncan J. Irschick 2015-01-20

The diversity of animal signals has been widely documented, and the generality of animal signals also tantalizingly suggests that there are common mechanisms that have selected for their origin. However, while much progress has been made on some fronts, we still lack a general theory about why the diversity of signaling structures exist. Our compilation will directly address this gap by focusing on an exciting new arena of sexual selection, namely using functional approaches to understand signaling. This approach is rooted in the idea that many signals are designed to transmit important functional information that is both important for issues of male quality (and hence male competition), and female choice. The increasing use of technology in sexual selection studies has enabled researchers to test whether signaling is either constrained by, or accurately transmits information about functional capacities. Further, in animals that fight vigorously, functional capacities such as endurance or strength may make the difference between winning and losing. This volume brings together a diverse collection of researchers who are actively investigating how function and signaling are

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related. These researchers use both a variety of methods and taxa to study animal signaling, and we believe that this integrative view is important to open up fresh vistas for why animal signals have evolved.

The Imitation Factor Lee Alan Dugatkin 2000 An acclaimed biologist draws on a wide range of his own and others' research into the behavior of fish, birds, whales, and humans to reveal the failure of genetic determination to explain mating behavior and the fundamental process of learning.

Ecology and Evolution of Poeciliid Fishes Jonathan P. Evans 2011-09-26 The history of biology is populated by numerous model species or organisms. But few vertebrate groups have aided evolutionary and ecological research more than the live-bearing fishes of the family Poeciliidae. Found throughout tropical and subtropical waters, poeciliids exhibit a fascinating variety of reproductive specializations, including viviparity, matrotrophy, unisexual reproduction, and alternative mating strategies, making them ideal models for research on patterns and processes in ecology, behavior, and evolution. *Ecology and Evolution of Poeciliid Fishes* is a much-needed overview of the scientific potential and understanding of these live-bearing fishes. Chapters by leading researchers take up a wide range of topics, including the evolution of unisexual reproduction, life in extreme environments, life-history evolution, and genetics. Designed to provide a single and highly approachable reference, *Ecology and Evolution of Poeciliid Fishes* will appeal to students and specialists interested in all aspects of evolutionary ecology.

Dynamic Mate Choice and Mating Behavior in California Quail
Jennifer D. Calkins 2000

Microevolution Rate, Pattern, Process Andrew P. Hendry 2012-12-06 From guppies to Galapagos finches and from adaptive landscapes to haldanes, this compilation of contributed works provides reviews, perspectives, theoretical models, statistical developments, and empirical demonstrations exploring the tempo

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and mode of microevolution on contemporary to geological time scales. New developments, and reviews, of classic and novel empirical systems demonstrate the strength and diversity of evolutionary processes producing biodiversity within species. Perspectives and theoretical insights expand these empirical observations to explore patterns and mechanisms of microevolution, methods for its quantification, and implications for the evolution of biodiversity on other scales. This diverse assemblage of manuscripts is aimed at professionals, graduate students, and advanced undergraduates who desire a timely synthesis of current knowledge, an illustration of exciting new directions, and a springboard for future investigations in the study of microevolution in the wild.

Sexual Selection Malte Andersson 1994-06-16 Bright colors, enlarged fins, feather plumes, song, horns, antlers, and tusks are often highly sex dimorphic. Why have males in many animals evolved more conspicuous ornaments, signals, and weapons than females? How can such traits evolve although they may reduce male survival? Such questions prompted Darwin's perhaps most scientifically controversial idea--the theory of sexual selection. It still challenges researchers today as they try to understand how competition for mates can favor the variety of sex-dimorphic traits. Reviewing theoretical and empirical work in this very active field, Malte Andersson, a leading contributor himself, provides a major up-to-date synthesis of sexual selection. The author describes the theory and its recent development; examines models, methods, and empirical tests; and identifies many unsolved problems. Among the topics discussed are the selection and evolution of mating preferences; relations between sexual selection and speciation; constraints on sexual selection; and sex differences in signals, body size, and weapons. The rapidly growing study of sexual selection in plants is also reviewed. This volume will interest students, teachers, and researchers in behavioral ecology and evolutionary biology.

Fish Cognition and Behavior Culum Brown 2008-04-15 The study of animal cognition has been largely confined to birds and mammals; a historical bias which has led to the belief that learning plays little or no part in the development of behaviour in fishes and reptiles. Research in recent decades has begun to redress this misconception and it is now recognised that fishes exhibit a rich array of sophisticated behaviour with impressive learning capabilities entirely comparable with those of mammals and other terrestrial animals. In this fascinating book an international team of experts have been brought together to explore all major areas of fish learning, including: foraging skills Predator recognition Social organisation and learning Welfare and pain Fish Cognition and Behavior is an important contribution to all fish biologists and ethologists and contains much information of commercial importance for fisheries managers and aquaculture personnel. Libraries in universities and research establishments will find it an important addition to their shelves.

Mating Systems and Strategies Stephen M. Shuster 2019-12-31 This book presents the first unified conceptual and statistical framework for understanding the evolution of reproductive strategies. Using the concept of the opportunity for sexual selection, the authors illustrate how and why sexual selection, though restricted to one sex and opposed in the other, is one of the strongest and fastest of all evolutionary forces. They offer a statistical framework for studying mating system evolution and apply it to patterns of alternative mating strategies. In doing so, they provide a method for quantifying how the strength of sexual selection is affected by the ecological and life history processes that influence females' spatial and temporal clustering and reproductive schedules. Directly challenging verbal evolutionary models that attempt to explain reproductive behavior without quantitative reference to evolutionary genetics, this book establishes a more solid theoretical foundation for the field.

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Among the weaknesses the authors find in the existing data is the apparent ubiquity of condition-dependent mating tactics. They identify factors likely to contribute to the evolution of alternative mating strategies--which they argue are more common than generally believed--and illustrate how to measure the strength of selection acting on them. Lastly, they offer predictions on the covariation of mating systems and strategies, consider the underlying developmental biology behind male polyphenism, and propose directions for future research. Informed by genetics, this is a comprehensive and rigorous new approach to explaining mating systems and strategies that will influence a wide swath of evolutionary biology.

A Taste for the Beautiful Michael J. Ryan 2019-06-25 "In A Taste for the Beautiful, Michael Ryan, one of the world's leading authorities on animal behavior, tells the remarkable story of how he and other scientists have taken up where Darwin left off, transforming our understanding of sexual selection and shedding new light on animal and human behavior. Drawing on cutting-edge science, Ryan explores the key questions: Why do animals perceive certain traits as beautiful and others not? Do animals have an inherent sexual aesthetic and, if so, where is it rooted? Ryan argues that the answers lie in the brain--particularly of females, who act as biological puppeteers, spurring the development of beautiful traits in males."--Back cover

Sex Color And Mate Choice In Guppies

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eBooks have become a staple for both leisure and learning. The convenience of accessing Sex Color And Mate Choice In Guppies and various genres has transformed the way we consume literature. Whether

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