

Sex, Color, and Mate Choice in Guppies

ANNE E. HOUDE



MONOGRAPHS IN BEHAVIOR AND ECOLOGY

Sex Color And Mate Choice In Guppies

Anne E. Houde



Sex Color And Mate Choice In Guppies:

Sex, Color, and Mate Choice in Guppies Anne E. Houde, 1997-08-24 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

Sex, Color, and Mate Choice in Guppies Anne E. 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

Genetics of Mate Choice: From Sexual Selection to Sexual Isolation W.J. Etges, M.A. Noor, 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

preparing 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 **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 *Mating Systems and Strategies* Stephen M. Shuster, Michael J. Wade, 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 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

The Evolutionary Biology of Human Female Sexuality Randy Thornhill, Steven W. Gangestad, 2008-09-25 Research conducted in the last fifteen years has placed in question many of the traditional conclusions scholars have formed about human female sexuality Though conventional wisdom asserts that women's estrus has been evolutionarily lost Randy Thornhill and Steven W Gangestad assert that it is present though concealed Women they propose therefore exhibit two sexualities each ovulatory cycle estrus and sexuality outside of the estrous phase extended sexuality that possess distinct functions Synthesizing research in behavioral evolution and comparative biology the authors provide a new theoretical framework for understanding the evolution of human female sexuality one that is rooted in female sexuality and phylogeny across all vertebrate animals

Sexual Conflict Göran Arnqvist, Locke Rowe, 2013-11-28 The past decade has seen a profound change in the scientific understanding of reproduction The traditional view of reproduction as a joint venture undertaken by two individuals aimed at replicating their common genome is being challenged by a growing body of evidence showing that the evolutionary interests of interacting males and females diverge This book demonstrates that despite a shared genome conflicts between interacting males and females are ubiquitous and that selection in the two sexes is continuously pulling this genome in opposite directions These conflicts drive the evolution of a great variety of those traits that distinguish the sexes and also contribute to the diversification of lineages G ran Arnqvist and Locke Rowe present an array of evidence for sexual conflict throughout nature and they set these conflicts into the well established theoretical framework of sexual selection The recognition of conflict between the sexes is transforming our theories for the evolution of mating systems and the sexes themselves Written by two top researchers in the field Sexual Conflict is the first book to describe this transformation It is a must read for all scholars and students interested in the evolutionary biology of reproduction

Frontiers in Developmental Biology Robert A. Meyers, 2019-04-02 Dieser aktuelle Band aus der renommierten enzyklopädischen Reihe ist der erste in vielen Jahren der alle wichtigen Aspekte der Entwicklungsbiologie vereint von der Morphogenese und Organogenese über die epigenetische Regulation der Genexpression bis hin zur evolutionären Entwicklungsbiologie Der Herausgeber hat ein herausragendes Team zusammengestellt das diese Themen beleuchtet und damit ein wegweisendes Werk für die kommenden Jahre geschaffen Das Ergebnis ist ein einzigartiges herausragendes Referenzwerk der Entwicklungsbiologie für Forscher Studenten und Fachexperten

The Cambridge Handbook of Evolutionary Perspectives on Sexual Psychology: Volume 1, Foundations Todd K. Shackelford, 2022-07-21 The interface of sexual behavior and evolutionary psychology is a rapidly growing domain rich in psychological theories and data as well as controversies and applications With nearly eighty chapters by leading researchers from around the world and combining theoretical and empirical perspectives The Cambridge Handbook of Evolutionary Perspectives on Sexual Psychology is the most comprehensive and up to date reference work in the field Providing a broad

yet in depth overview of the various evolutionary principles that influence all types of sexual behaviors the handbook takes an inclusive approach that draws on a number of disciplines and covers nonhuman and human psychology It is an essential resource for both established researchers and students in psychology biology anthropology medicine and criminology among other fields Volume 1 Foundations of Evolutionary Perspectives on Sexual Psychology addresses foundational theories and methodological approaches **Genotype-by-Environment Interactions and Sexual Selection** John Hunt, David J.

Hosken, 2014-09-03 Sexual selection is recognized as being responsible for some of the most extravagant morphologies and behaviors in the natural world as well as a driver of some of the most rapid evolution While Charles Darwin's theory is now a fundamental component of modern evolutionary biology the impact of genotype by environment interactions on sexual selection has thus far received little attention This book represents the first comprehensive analysis of the role genotype by environment interactions play in sexual selection and the potential implications that they have for the evolutionary process The Editors have identified 13 topics that currently define the field and shed light on the impacts of these interactions on sexual selection This includes key topics such as resolving the lek paradox and how genotype by environmental interactions can compromise the honesty of sexual signals The volume also outlines key questions that remain unanswered and provides a comprehensive guide to analyzing genotype by environment interactions The mix of theory empirical studies and practical instructions from world leading experts make this book a particularly potent and definitive guide on the topic It will be of interest to evolutionary biologists spanning from genomicists to behaviorists This is a very timely book covering a topic that should change the way we think about sexual selection The contributors are all leaders and the topics should provide guidance to many PhD projects in the years to come GEI is increasingly shown to be important and it seems likely that it is critical in species where sexual selection is operating This book is likely to help revitalize the study of sexual selection Professor Allen Moore The University of Georgia GEIs fascinate evolutionary biologists but the unique consequences for sexually selected traits have been neglected until now This multi authored book comprehensively explains key theoretical concepts handles practical how to issues and uses classic case studies to illustrate the value of studying GEIs It is a must read for everyone interested in sexual selection Professor Michael Jennions The Australian National University Research Progress in Fisheries Science William Hunter, III, 2011-04-15 A multidisciplinary subject the study of fisheries science includes the biological study of life habits and breeding of various species of fish It also involves farming and husbandry of important fishes and aquatic organisms in fresh water brackish water and any marine environment This new book includes a selection of topics in the field such as the impact of climate change on tropical fish studies on the reproductive and mating habits of specific fish hibernation of Antarctic fish the molecular makeup of specific fish and more Fish Cognition and Behavior Culum Brown, Kevin Laland, Jens Krause, 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

Evolution Education in the American South Christopher D. Lynn, Amanda L. Glaze, William A. Evans, Laura K. Reed, 2017-03-08 This volume reaches beyond the controversy surrounding the teaching and learning of evolution in the United States specifically in regard to the culture politics and beliefs found in the Southeast The editors argue that despite a deep history of conflict in the region surrounding evolution there is a wealth of evolution research taking place from biodiversity in species to cultural evolution and human development In fact scientists educators and researchers from around the United States have found their niche in the South where biodiversity is high culture runs deep and the pace is just a little bit slower

Developmental Instability Michal Polak, 2003 The field of developmental instability has generated a large amount of controversy recently mostly because of fierce disagreement over the genetic basis of fluctuating asymmetry and its role in mate selection This book is a timely and innovative critical evaluation of a burgeoning field The book explores the premise that complex organismal ecological and evolutionary processes can be understood as emergent properties of the epigenetic machine that is the mechanisms fundamental to all organisms responsible for building and organizing phenotypes from information translated from DNA

Sexual Segregation in Vertebrates Kathreen Ruckstuhl, Peter Neuhaus, 2006-01-05 Males and females often differ in developmental patterns adult morphology ecology and behaviour and in many mammals males are often larger Size dimorphism results in divergent nutritional and energetic requirements or reproductive strategies by the sexes which in turn sometimes causes them to select different forage use different habitats and express differing social affinities Such divergent life styles often lead males and females to live large parts of their lives separately Sexual segregation is widespread in animals Males and females may share the same habitat but at different times for example or they might use different habitats entirely Why did sexual segregation evolve and what factors contribute to it Sexual Segregation in Vertebrates explores these questions by looking at a wide range of vertebrates and is aimed as a synthesis of our current understanding and a guide for future research

Reproductive Biology of Teleost Fishes Robert J. Wootton, Carl Smith, 2014-12-03 Reproductive Biology of Teleost Fishes is the first integrated review of the reproductive biology of the bony fishes which are the most species rich and diversified group of vertebrates Teleosts display remarkable variation in their modes of reproduction and this volume is intended to provide a framework for understanding the remarkable reproductive diversity of this group It

describes their reproductive biology using wherever possible phylogenetic analyses and life history theory as a means to interpret the information. The book addresses the genetic, physiological, behavioural, ecological, evolutionary and applied aspects of teleost reproduction in a comparative framework that emphasises the adaptive basis of reproductive diversity. *Reproductive Biology of Teleost Fishes* provides a comprehensive synthesis of fish reproduction that will be of great interest to life scientists, particularly ecologists, evolutionary biologists, physiologists and advanced undergraduates, postgraduates and research workers requiring a comprehensive overview of fish reproduction. The book is suitable for courses in fish biology and ecology, reproductive physiology and reproductive genetics. It also addresses applied questions and will be of value for courses on fisheries science and aquaculture. Libraries in all universities and research establishments where biological sciences, fisheries science and aquaculture are studied and taught should have several copies of this important book on their shelves. *Biology of Subterranean Fishes* Eleonora Trajano, Maria Elina Bichuette, B.G. Kapoor, 2010-05-20

In most habitats, adaptations are the single most obvious aspects of an organism's phenotype. However, the most obvious feature of many subterranean animals are losses, not adaptations. Even Darwin saw subterranean animals as degenerates, examples of eyelessness and loss of structure in general. For him, the explanation was a straightforward Lamarckian process. *Neural Networks and Animal Behavior* Magnus Enquist, Stefano Ghirlanda, 2013-12-03 How can we make better sense of animal behavior by using what we know about the brain? This is the first book that attempts to answer this important question by applying neural network theory. Scientists create Artificial Neural Networks (ANNs) to make models of the brain. These networks mimic the architecture of a nervous system by connecting elementary neuron-like units into networks in which they stimulate or inhibit each other's activity in much the same way neurons do. This book shows how scientists can employ ANNs to analyze animal behavior, explore the general principles of the nervous systems and test potential generalizations among species. The authors focus on simple neural networks to show how ANNs can be investigated by math and by computers. They demonstrate intuitive concepts that make the operation of neural networks more accessible to nonspecialists. The first chapter introduces various approaches to animal behavior and provides an informal introduction to neural networks, their history and their potential advantages. The second chapter reviews artificial neural networks, including biological foundations, techniques and applications. The following three chapters apply neural networks to such topics as learning and development, classical instrumental condition and the role of genes in building brain networks. The book concludes by comparing neural networks to other approaches. It will appeal to students of animal behavior in many disciplines. It will also interest neurobiologists, cognitive scientists and those from other fields who wish to learn more about animal behavior. **Hormones and Animal**

Social Behavior Elizabeth Adkins-Regan, 2013-12-03 Research into the lives of animals in their natural environments has revealed a rich tapestry of complex social relationships and previously unsuspected social and mating systems. The evolution of this behavior is increasingly well understood. At the same time, laboratory scientists have made significant discoveries

about how steroid and peptide hormones act on the nervous system to shape behavior. An exciting and rapidly progressing hybrid zone has developed in which these two fields are integrated, providing a fuller understanding of social behavior and the adaptive functions of hormones. This book is a guide to these fascinating connections between animal social behavior and steroid and peptide hormones, a synthesis designed to make it easier for graduate students and researchers to appreciate the excitement, engage in such integrative thinking, and understand the primary literature. Throughout, Elizabeth Adkins-Regan emphasizes concepts and principles, hypothesis testing, and critical thinking. She raises unanswered questions, providing an unparalleled source of ideas for future research. The chapter sequence is by levels of biological organization, beginning with the behavior and hormones of individuals, proceeding to social relationships and systems, and from there to development, behavioral evolution over relatively short time scales, life histories, and their evolution, and finally evolution over longer time scales. The book features studies of a wide variety of wild and domestic vertebrates, along with some of the most important invertebrate discoveries.

Vertebrate Mating Systems Marco Apollonio, Marco Festa-Bianchet, Danilo Mainardi, 2000. This book reviews the relationship of mating systems with other aspects of vertebrate biology. It presents many stimulating new perspectives and ideas on mating systems studies. While many of the authors present some of their own research, in all cases they underline the general relevance of their work and speculate on future directions of scientific inquiry.

Sex Color And Mate Choice In Guppies Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the power of words has become more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Sex Color And Mate Choice In Guppies**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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