

Sex, Color, and Mate Choice In Guppies

ANNE E. HOUDE



MONOGRAPHS IN BEHAVIOR AND ECOLOGY

Sexcolor And Mate Choice In Guppies

Barrie G M Jamieson



Sexcolor And Mate Choice In Guppies:

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.

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.

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 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

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

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 *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 **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 *Fish Behaviour* Carin Magnhagen, Victoria A. Braithwaite, Elisabet Forsgren, B. G. Kapoor, 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 **Principles of Animal Behavior, 4th Edition** Lee Alan Dugatkin, 2020-01-15 Since the last edition of this definitive textbook was published in 2013 much has happened in the field of animal behavior In this fourth edition Lee Alan Dugatkin draws on cutting edge new work not only to update and expand on the studies presented but also to reinforce the previous editions focus on ultimate and proximate causation as well as the book s unique emphasis on natural selection learning and cultural transmission The result is a state of the art textbook on animal behavior that explains underlying concepts in a way that is both scientifically rigorous and accessible to students Each chapter in the book provides a sound theoretical and conceptual basis upon which the empirical studies rest A completely new feature in this edition are the Cognitive Connection boxes in Chapters 2 17 designed to dig deep into the importance of the cognitive underpinnings to many types of behaviors Each box focuses on a specific issue related to

cognition and the particular topic covered in that chapter As Principles of Animal Behavior makes clear the tapestry of animal behavior is created from weaving all of these components into a beautiful whole With Dugatkin's exquisitely illustrated comprehensive and up to date fourth edition we are able to admire that beauty anew **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 **Advances in the Study of Behavior** John C. Mitani, H. Jane Brockmann, Timothy J. Roper, Marc Naguib, Katherine E. Wynne-Edwards, 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 [Handbook of Fish Biology and Fisheries](#) Paul J. B. Hart, John D. Reynolds, 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/063206482X> or to order the 2 volume set go to <http://www.blackwellpublishing.com/book.asp/ref/0632064838> 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

Proceedings, 2005 **The American Naturalist**, 2009 **Dynamic Mate Choice and Mating Behavior in California Quail** Jennifer D. Calkins, 2000 **Canadian Journal of Zoology**, 2003 Fish as Models of Behaviour Fisheries Society of the British Isles. Annual Symposium, 2003 *Tropical Fish Biology* Fisheries Society of the British Isles. Symposium, 1998 **Molecular Phylogenetics and the Evolution of Courtship Behavior, Body Shape, and Coloration in the Livebearing Fish Genus *Limia*** Aaron Thaddeus Hamilton, 2001 **Sexual Conflict in the Alfalfa Leafcutting Bee, *Megachile Rotundata*, and the Effect of the Haplodiploid Genetic System** Benjamin Howard Rossi, 2009

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Table of Contents Sexcolor And Mate Choice In Guppies

1. Understanding the eBook Sexcolor And Mate Choice In Guppies
 - The Rise of Digital Reading Sexcolor And Mate Choice In Guppies
 - Advantages of eBooks Over Traditional Books
2. Identifying Sexcolor And Mate Choice In Guppies
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sexcolor And Mate Choice In Guppies
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sexcolor And Mate Choice In Guppies
 - Personalized Recommendations
 - Sexcolor And Mate Choice In Guppies User Reviews and Ratings
 - Sexcolor And Mate Choice In Guppies and Bestseller Lists
5. Accessing Sexcolor And Mate Choice In Guppies Free and Paid eBooks

- Sexcolor And Mate Choice In Guppies Public Domain eBooks
 - Sexcolor And Mate Choice In Guppies eBook Subscription Services
 - Sexcolor And Mate Choice In Guppies Budget-Friendly Options
6. Navigating Sexcolor And Mate Choice In Guppies eBook Formats
 - ePub, PDF, MOBI, and More
 - Sexcolor And Mate Choice In Guppies Compatibility with Devices
 - Sexcolor And Mate Choice In Guppies Enhanced eBook Features
 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sexcolor And Mate Choice In Guppies
 - Highlighting and Note-Taking Sexcolor And Mate Choice In Guppies
 - Interactive Elements Sexcolor And Mate Choice In Guppies
 8. Staying Engaged with Sexcolor And Mate Choice In Guppies
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sexcolor And Mate Choice In Guppies
 9. Balancing eBooks and Physical Books Sexcolor And Mate Choice In Guppies
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sexcolor And Mate Choice In Guppies
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Sexcolor And Mate Choice In Guppies
 - Setting Reading Goals Sexcolor And Mate Choice In Guppies
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Sexcolor And Mate Choice In Guppies
 - Fact-Checking eBook Content of Sexcolor And Mate Choice In Guppies
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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