

Sex, Color, and Mate Choice In Guppies

ANNE E. HOUDE



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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 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 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

Reproduction and Sexuality in Marine Fishes Kathleen Sabina Cole, 2010 Understanding reproduction in marine fishes is critical to their conservation It is also a fascinating topic in its own right This book is now the best single reference on the subject with original insights analysis and information Anyone interested in the fascinating diversity of ways fish reproduce will want to have a copy of this book handy Peter Moyle co author of *Protecting Life on Earth* Cole has assembled the internationally recognized authorities and they successfully cover topics of critical interest to behaviorists ecologists anatomists physiologists and conservation biologists These experts demonstrate the amazing diversity and complexity of sexual and reproductive characteristics that have evolved among marine fishes Gene Helfman co author of *The Diversity of Fishes Biology Evolution and Ecology* Kathleen Cole and her contributing authors raise from the depths of ignorance many neglected themes in the reproductive biology and fluid sexuality of marine fishes The sheer richness of the data and the enthusiastic engaging and thoughtful ways in which they are presented will encourage further research and discovery in biology of marine fishes and their complex and dynamic habitats Lynne Parenti co author of *Comparative Biogeography*

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

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

Exploring Animal Behavior in Laboratory and Field

Bonnie J. Ploger, Ken Yasukawa, 2003 Designed to provide a variety of exercises that engage students actively in all phases of scientific investigation from formulating research questions through interpreting and presenting final results Suited to undergraduates each chapter presents an animal behavior exercise tested by academic members of the Animal Behavior Society Four types of exercises are presented 1 traditional exercises in which students follow a pre determined protocol to test particular hypotheses 2 traditional exercises that can easily be adapted to inquiry based approaches 3 combined pedagogy exercises that involve both traditional and inquiry approaches and 4 inquiry exercises in which students brainstorm to generate their own hypotheses then design their own experiments to test them Exercises cover descriptive ethology causation and development of behavior and behavioral ecology Both field and laboratory exercises are included on arthropods fish amphibians reptiles birds and mammals

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

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Table of Contents Sex Color And Mate Choice In Guppies

1. Understanding the eBook Sex Color And Mate Choice In Guppies
 - The Rise of Digital Reading Sex Color And Mate Choice In Guppies
 - Advantages of eBooks Over Traditional Books
2. Identifying Sex Color 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 Sex Color And Mate Choice In Guppies
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sex Color And Mate Choice In Guppies

- Personalized Recommendations
- Sex Color And Mate Choice In Guppies User Reviews and Ratings
- Sex Color And Mate Choice In Guppies and Bestseller Lists
- 5. Accessing Sex Color And Mate Choice In Guppies Free and Paid eBooks
 - Sex Color And Mate Choice In Guppies Public Domain eBooks
 - Sex Color And Mate Choice In Guppies eBook Subscription Services
 - Sex Color And Mate Choice In Guppies Budget-Friendly Options
- 6. Navigating Sex Color And Mate Choice In Guppies eBook Formats
 - ePub, PDF, MOBI, and More
 - Sex Color And Mate Choice In Guppies Compatibility with Devices
 - Sex Color And Mate Choice In Guppies Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sex Color And Mate Choice In Guppies
 - Highlighting and Note-Taking Sex Color And Mate Choice In Guppies
 - Interactive Elements Sex Color And Mate Choice In Guppies
- 8. Staying Engaged with Sex Color And Mate Choice In Guppies
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sex Color And Mate Choice In Guppies
- 9. Balancing eBooks and Physical Books Sex Color And Mate Choice In Guppies
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sex Color And Mate Choice In Guppies
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sex Color And Mate Choice In Guppies
 - Setting Reading Goals Sex Color And Mate Choice In Guppies
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sex Color And Mate Choice In Guppies

- Fact-Checking eBook Content of Sex Color 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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