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# Alternative Reproductive Tactics

An Integrative Approach



# Alternative Reproductive Tactics An Integrative Approach

**Yicheng Fang**



## **Alternative Reproductive Tactics An Integrative Approach:**

*Alternative Reproductive Tactics* Rui F. Oliveira, Michael Taborsky, H. Jane Brockmann, 2008 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

**Alternative Reproductive Tactics** Brockmann H Jane Taborsky Michael Oliveira Rui F, 2014-05-14 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

**Encyclopedia of Reproduction**, 2018-06-29 *Encyclopedia of Reproduction* Second Edition Six Volume Set comprehensively reviews biology and abnormalities also covering the most common diseases in humans such as prostate and breast cancer as well as normal developmental biology including embryogenesis gestation birth and puberty Each article provides a comprehensive overview of the selected topic to inform a broad spectrum of readers from advanced undergraduate students to research professionals Chapters also explore the latest advances in cloning stem cells endocrinology clinical reproductive medicine and genomics As reproductive health is a fundamental component of an individual's overall health status and a central determinant of quality of life this book provides the most extensive and authoritative reference within the field Provides a one stop shop for information on reproduction that is not available elsewhere Includes extensive coverage of the full range of topics from basic to clinical considerations including evolutionary advances in molecular cellular developmental and clinical sciences Includes multimedia and interactive teaching tools such as downloadable PowerPoint slides video content and interactive elements such as the Virtual Microscope

**Sexual Selection** Regina H. Macedo, Glauco Machado, 2013-09-25 *Sexual Selection Perspectives and Models from the Neotropics* presents new sexual selection research based upon neotropical species As neotropical regions are destroyed at an alarming rate with an estimated 140 species of rainforest plants and animals going

extinct every day it is important to bring neotropical research to the fore now Sexual selection occurs when the male or female of a species is attracted by certain characteristics such as form color or behavior When those features lead to a greater probability of successful mating they become more prominent in the species Although most theoretical concepts concerning sexual selection and reproductive strategies are based upon North American and European fauna the Neotropical region encompasses much more biodiversity with as many as 15 000 plant and animal species in a single acre of rain forest This book illustrates concepts in sexual selection through themes ranging from female cryptic choice in insects sexual conflict in fish interaction between sexual selection and the immune system nuptial gifts visual and acoustic sexual signaling parental investment to alternative mating strategies among others These approaches distinguish Sexual Selection from current publications in sexual selection mainly because of the latitudinal and taxonomic focus so that readers will be introduced to systems mostly unknown outside the tropics several of which bring into question some well established patterns for temperate regions Synthesizes sexual selection research on species from the Neotropics Combines different perspectives and levels of analysis using a broad taxonomic basis introducing readers to systems mostly unknown outside the tropics and bringing into question well established patterns for temperate regions Includes contributions exploring concepts and theory as well as discussions on a variety of Neotropical vertebrates and invertebrates such as insects fish arthropods and birds

**The Biology of Blennies** Robert A Patzner, 2009-01-05 Blennies are diverse group of bony fishes found around the globe Most blennies are small and somewhat difficult to identify so until recently these fish did not occupy the interests of many ichthyologists and even fewer ecologists With nearly 900 species blennies are important members of most coastal marine communities This book should stimulate

*The ^AEvolution of Primary Sexual Characters in Animals* Janet Leonard, Alex Cordoba-Aguilar, 2010-07-19 This edited volume explores primary sexual characters in a wide variety of animal taxa It provides an overview of sexual diversity the selective pressures that have shaped it and an introduction to the data and theoretical issues in sexual selection that are changing our view of sexual processes

**Animal Behaviour: Evolution and Mechanisms** Nils Anthes, Peter M. Kappeler, Ralph Bergmüller, Wolf Blanckenhorn, H. Jane Brockmann, Claudia Fichtel, Lutz Fromhage, Joachim Frommen, Wolfgang Goymann, Juergen Heinze, Katharina Hirschenhauser, Heribert Hofer, Sylvia Kaiser, Bart Kempenaers, Gerald Kerth, Judith Ingrid Korb, Kurt M. Kotrschal, Cornelia Kraus, Martha Manser, Nico Michiels, Robin F. A. Moritz, Mario Pahl, Dustin Penn, Norbert Sachser, Martin Schaefer, Carel P. van Schaik, Jutta M. Schneider, Isabella Schreiber, Michael Taborsky, Jürgen Tautz, Fritz Trillmich, Shaowu Zhang, 2010-04-03 This up to date review examines key areas of animal behaviour including communication cognition conflict cooperation sexual selection and behavioural variation Various tests are covered including recent empirical examples

**Encyclopedia of Evolutionary Biology**, 2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective

leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process

*What's Love Got to Do with it: The Evolution of Monogamy* Alexander G. Ophir, Nancy G. Solomon, 2020-06-25 *The American Naturalist*, 2006 **Distribution and Regulation of Brain Aromatase (estrogen Synthase) Expression in a Vocal Fish with Alternative Reproductive Morphs** Paul Michael Forlano, 2005 **Canadian Journal of Zoology**, 2014-05 **An Integrative Approach to the Ecology and Evolution of Alternative Reproductive Tactics in Male *Poecilia latipinna*** Son Young Kim, 2019 Understanding the sources of variation that make up complex phenotypes has been a long standing goal of evolutionary biology Sexually selected polymorphisms such as those found in alternative reproductive tactics ARTs are an example of complex phenotypes that show extreme variation among multiple traits Males often show phenotypic traits that vary in size ornamentation coloration and behavior For my dissertation I used an integrative approach to investigate aspects of the social hormonal and genetic effects that contribute to alternative reproductive tactics using male sailfin mollies *Poecilia latipinna* a live bearing fish species Complex phenotypes have both genetic and environmental sources of variation and hormones often mediate the interaction between these two sources Maternal effects and the presence of rival males are two such social environmental factors that can affect male phenotypes First I examined the effects of other rival males on male mate choice for conspecific females and on the changes in circulating levels of the androgen 11 ketotestosterone KT and cortisol within a mate choice context Although rival males did not affect male mate choice these potential competitors did affect the KT release rates of focal males and females Further males released more KT with increasing size of the rival male Then I investigated how cortisol release rates varied in female sailfin mollies during gestation to identify the potential effects of maternal stress on son phenotype I conducted an adrenocorticotrophic hormone ACTH challenge to determine the natural range of cortisol by gestating and non gestating females and whether within and among individual variation repeatability contributed to female cortisol release rates Gestational status did not correlate with cortisol but females showed high repeatability in cortisol release rates which

suggests that variation in maternal stress may affect offspring and that cortisol release rates may be heritable Lastly I identified the genetic basis of male phenotypic variation using a genome wide association study Using a Bayesian sparse linear mixed model approach I characterize the underlying genomic architecture of relevant morphological traits that define ARTs in male sailfin such as body size I found that the phenotypic traits associated with ARTs in male sailfin mollies show a complex genetic architecture with many loci of small effect which suggests that these ART traits are polygenic and reflect high heritability Together these chapters provide greater understanding of the genetic and physiological mechanisms for the variation in male phenotypes of sailfin mollies

*Life History and Genetic Diversity in Desert Reptiles and Amphibians*

Lauren Michele Chan,2007      Evolution of Sexual Dimorphism from Gametes to Ornaments Priya Lakshmi Iyer,2009

*Science* ,2009      **Advances in Ethology** ,1987      Encyclopedia of Ecology: G-O Sven Erik Jørgensen,Brian D.

Fath,2008      **Alternative Reproductive Tactics** ,1984      Proceedings ,2004

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