



## Mate Choice

**Culum Brown, Kevin Laland, Jens  
Krause**

## **Mate Choice:**

*Mate Choice* Paul Patrick Gordon Bateson, 1983-04-28 Twenty one specially commissioned articles provide a clear picture of the current state of thinking about mate choice Brings together modern thinking on the various functions of mate choice and its role in evolution

*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

**Sexual Selection** James L. Gould, Carol Grant Gould, 1997 A back to basics discussion of sex and reproduction that explores what evolutionary advantages there are to sexual reproduction why species vary so widely in their mating practices and what larger functions these practices serve How humans and other animals choose their mates is explored

*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.

**The Evolution of Beauty** Richard O. Prum, 2018-04-03

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. A delicious read, both seductive and mutinous. Minutely detailed, exquisitely observant, deeply informed and often tenderly sensual. New York Times Book Review

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 revives 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.

**Mate Choice in Plants** Nancy Burley, Mary F. Willson, 2020-03-31

This book maintains that higher plants manifest some degree of sexual selection and it begins to build a framework that unifies many features of plant reproduction previously considered unrelated. Reviewing evidence for sexual selection in plants, the authors discuss possible male-female interactions, concluding with an extensive set of hypotheses for testing. Mechanisms that could be employed in sexual selection in plants include various cellular mechanisms such as both nuclear and cytoplasmic genetics, B chromosomes and paternal contributions to the zygote, as well as abortion, double fertilization, delayed fertilization and certain forms of polyembryony. This study compares the consequences of these processes for the evolution of mate choice in gymnosperms and angiosperms.

**Male Choice, Female Competition, and Female Ornaments in Sexual Selection** Ingo Schlupp, 2021-05-31

When Charles Darwin first proposed

Sexual Selection Theory he suggested two mechanisms competition among males and choice by females Although their importance is long established and extremely well understood their mirror images have remained largely underappreciated males also choose and females also compete The combination of male mate choice MMC and female competition FC may be one of the most overlooked yet important and intriguing phenomena in modern sexual selection theory This novel text reviews our current understanding of MMC and FC highlighting the important connections between them It places both concepts in the context of related fields such as female choice mating systems and sexual selection theory more broadly A truly holistic approach is provided which takes all the relevant elements into consideration especially the relative roles of MMC and FC female ornamentation their evolutionary consequences and their genetic basis Considering male mate choice and female competition in this way as effectively two sides of the same coin creates a powerful paradigm for a more complete understanding of sexual selection Male Choice Female Competition and Female Ornaments in Sexual Selection will be suitable for both graduate students and researchers interested in sexual selection from an evolutionary psychological and anthropological perspective It will also appeal to a broader audience of behavioural ecologists and evolutionary psychologists

Sexual selection and mate choice - is there any evidence that females choose on the basis of "good genes"? Christine Langhoff,2007-12-04 Essay from the year 2002 in the subject Biology Behaviour grade 2 1 Oxford Brookes University language English abstract The good gene hypothesis is one of the main hypotheses regarding sexual selection by female mate choice Sexual selection was first defined by Darwin as the advantage which certain individuals have over others of the same sex and species in exclusive relation to reproduction He devised sexual selection theory to account for the evolution of survival decreasing traits which nevertheless increase individual reproductive success by enabling individuals to acquire mates in competition with others Sexual selection consists of two components one arising when the members of one sex compete for mates often called intrasexual selection and the other occurring when members of the choosier sex determine which members of the other sex will have a chance to mate often called intersexual selection The good gene hypothesis is concerned with the latter or rather with the evolution of female preferences for male traits First I am going to outline the main components of the good gene hypothesis and then I am going to explore whether there is any evidence that females choose on the basis of good genes

*Fish Cognition and Behavior* Culum Brown,Kevin Laland,Jens Krause,2011-06-28 In the second edition of 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 Three new chapters covering fish personality lateralisation and fish cognition and fish welfare have been added to this fully revised and expanded second edition Fish Cognition and Behavior Second Edition contains essential information for all fish biologists and animal behaviorists and contains much new information of commercial importance for fisheries managers and aquaculture personnel Libraries in all universities and research establishments where biological sciences fisheries and aquaculture are

studied and taught will find it an important addition to their shelves      **Women's Mate Choice** Mark David Prokosch,2008

Sexual Selection in Homo sapiens Menelaos Apostolou,2017-06-20 The present book aims to examine how sexual selection works in the human species Almost all scholarly effort focuses on sexual selection in non human species and extrapolates the findings to the human one However human mating has a unique pattern not found in any other species namely parental influence over mate choice Across preindustrial societies the typical pattern of long term mating is arranged marriage where parents choose spouses for their children By doing so parents effectively become a sexual selection force Traits that enhance an individual's chance to be selected as a son or a daughter in law confer important reproductive advantages to those who are endowed with them increasing in frequency in the population The author has coined the term parental choice to describe the sexual selection force that arises from parental control over mating He synthesizes extensive theoretical and empirical work in order to understand and model this force The aim is to understand which factors give rise to parental choice and to combine these insights into constructing a more formal model It also aims to further examine whether the predictions of the model fit the patterns of mating found across different types of human societies and how the model can be used to understand the evolution of behavioral traits involved in mating By synthesizing the various arguments put forward and published across the literature the book offers a comprehensive argument and overview of an aspect of sexual selection unique to our species Furthermore the book revises and extends previously made arguments and models while it provides useful insights on how the proposed revision of sexual selection theory can enable us to understand a wide range of human behavioral phenomena It should be key reading for those interested in studying sexual selection in general and in the *Homo sapiens* species in particular      **Sexual Selection Under Parental Choice** Menelaos

Apostolou,2013-07-24 Parents often disagree with their children over their choice of partner Although the reasons may vary the outcome is very often one of conflict a conflict peculiar to the human species For the first time in one volume Sexual Selection under Parental Choice employs an evolutionary perspective to understand this conflict and explore its implications Covering recent developments in the field of evolutionary psychology Menelaos Apostolou reveals the extent of parental attempts to control the mating decisions of their offspring and investigates the qualities parents seek in prospective in laws Children's attempt to escape this control can lead to practices such as foot binding and clitoridectomy or in postindustrial societies more subtle forms of coercion and manipulation Apostolou demonstrates that much of human mating behavior has been shaped by parental choice and that parents have a significant influence in sexual selection the traits they favour in their children's mates are selected and increase in frequency in the population Sexual Selection under Parental Choice will be ideal reading for researchers and advanced students of evolutionary developmental and social psychology as well as other related disciplines such as social anthropology sociology and the biological sciences      **Condition and Mate Choice in Captive Zebra Finches** Susan Elisabeth Wynn,1991      The Quantitative Genetics of Mate Choice Evolution: Theory and

Empiricism Nicholas Layne Ratterman,2013 The evolution of mate choice remains one of the most controversial topics within evolutionary biology In particular the coevolutionary dynamics between ornaments and mating preferences has been extensively studied but few generalizations have emerged From a theoretical standpoint the nature of the genetic covariance built up by the process of mate choice has received considerable attention though the models still make biologically unrealistic assumptions Empirically the difficulty of estimating parameters in the models has hindered our ability to understand what processes are occurring in nature Thus it is the goal of this dissertation to contribute to the field both theoretically and empirically I begin with a review of the evolution of mate choice and demonstrate how the lack of cross talk between theoretical and empirical pursuits into studying mate choice has constrained our ability to extract basic principles The review is followed by a new model of intersexual selection that relaxes some of the critical assumptions inherent in sexual selection theory There are two empirical studies whose goal is to measure mating preference functions and genetic correlations in a way that can be related back to theory Finally I conclude by setting the stage for future endeavors into exploring the evolution of mate choice The results presented herein demonstrate four things i a lack of communication between theoretical and empirical studies of mate choice ii genetic drift plays a much larger role in preference evolution than previously demonstrated iii genetic correlations other than those explicitly modeled are likely to be important in preference evolution and iv variation in mating preferences can eliminate intersexual selection altogether From these four findings it can be concluded that a tighter link between theory and empiricism is needed with a particular emphasis on the importance of measuring individual level preference functions Models will benefit from integrating the specific phenotypes measured by empiricists Experimentation will be more useful to theory if particular attention is paid to the exact phenotypes that are measured Overall this dissertation is a stepping stone for a more cohesive and accurate understanding of mate choice evolution The electronic version of this dissertation is accessible from <http://hdl.handle.net/1969/1/148386>

**Mechanisms of Communication and Recognition in Social Evolution** Christina Riehl,Mark A. Elgar,2021-02-22 *Encyclopedia of Animal Behavior* ,2009-04-01 The Encyclopedia of Animal Behavior Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior This comprehensive work covers not only the usual topics such as communication learning sexual selection navigation and the history of the field but also emerging topics in cognition animal welfare conservation and applications of animal behavior The large section on animal cognition brings together many of the world's experts on the subject to provide a comprehensive overview of this rapidly developing area Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals farm animals and animals in the wild The key role of animal behavior in conservation biology receives

broad attention including chapters on topics such as the effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field In depth coverage of concepts methods and exemplar organisms serves the needs of graduate students and professionals in the field From the use of behavior in assessing the welfare of pigs to the social behavior of insects from animal empathy to bat brains this authoritative reference with its in depth introductory articles rich array of illustrations interactive cross referenced links and numerous suggested readings can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear accessible writing and is well illustrated including an online video complimenting a wealth of information As an online reference this work will be subject to period updating This ensures that the work always remains current Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior Section editors drawn from around the world represent the best and the brightest among today s behavioral biologists and have recruited a broad range of internationally recognized experts Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities

*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

### **The Complexities of Mate Choice** Alexandra Prokuda,2016

The first chapter provides a comprehensive review of the quantitative genetics of sexually selected traits preference for those traits and the correlation between them The review shows that the average heritability of sexually selected traits is the same as that of non sexually selected traits The data also show that the average heritability of preference is lower than previously reported and that the heritability of sexually selected traits decreases as the correlation between the trait and female preference increases The second and third chapters explore female preferences for male traits in *Gryllus firmus* In the second chapter the experiment shows that females choose based on multiple components of the male calling song Although many of the components do not have a significant effect when looked at separately as many as 6 song components and 2 other variables contribute to female choice when put together in a multivariate model The third chapter shows that female strategy for choosing males based on song duration alone is passive suggesting that females do not actively compare different males but go to the male that is singing at the time that she is choosing This strategy is contrary to what is assumed under the indicator mechanisms of mate choice and may be informative to the study of the origins of mate choice

*Modelling the Evolution and Consequences of Mate Choice* S. J. Tazzyman,2010 This thesis considers the evolution and the consequences of mate choice across a variety of taxa using game theoretic population genetic and quantitative genetic modelling techniques Part I is about the evolution of mate choice In chapter 2 a population genetic model shows that mate choice is even beneficial in self fertilising species such as *Saccharomyces* yeast In chapter 3 a game theoretic model shows that female choice will be strongly dependent upon whether the benefits are fixed so that females receive the same fitness boost from a mating with a given male regardless of how many matings that male has or dilutable where the more females a male mates with the lower the expected benefit to each This leads to the prediction that mating skew should be higher in species in which the benefits of mate choice are hypothesised to be due to good genes Part II is about the consequences of mate choice The theoretical prediction from chapter 3 is borne out by a literature review of studies of wild populations of birds in chapter 4 In chapter 5 a quantitative genetic model about poison dart frogs suggests that sexual selection can speed up the effect of random genetic drift This may be of more general importance further widening the evolutionary impact of sexual selection Finally in chapter 6 a game theoretic model of sperm competition shows that pre copulatory mate choice can also have evolutionary effects upon post copulatory behaviour affecting the optimal ejaculate expenditure of males Overall mate choice is shown to be an important evolutionary force with wide ranging ramifications across diverse taxa and effects so varied as to include the evolution of sex the genetic variation in species speciation and post copulatory behaviour amongst

others These effects can be effectively explored using mathematical modelling      **The Mating Mind** Geoffrey Miller, 2001-04-17 At once a pioneering study of evolution and an accessible and lively reading experience a book that offers the most convincing and radical explanation for how and why the human mind evolved Consciousness morality creativity language and art these are the traits that make us human Scientists have traditionally explained these qualities as merely a side effect of surplus brain size but Miller argues that they were sexual attractors not side effects He bases his argument on Darwin s theory of sexual selection which until now has played second fiddle to Darwin s theory of natural selection and draws on ideas and research from a wide range of fields including psychology economics history and pop culture Witty powerfully argued and continually thought provoking The Mating Mind is a landmark in our understanding of our own species

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