

Female Choices Sexual Behavior Of Female Primates

What's Love Got to Do with It? - Meredith Small 1996-06

These are just some of the new hypotheses explored in *What's Love Got to Do with It?* that are forcing scientists to rethink the human sexual arena.

Evolution and Human Sexual Behavior - Peter B. Gray 2013-04-01

A comprehensive survey of the evolutionary science of human sexual behavior, *Evolution and Human Sexual Behavior* invites us to imagine human sex from the vantage point of our primate cousins, in order to underscore the role of evolution in shaping all that happens, biologically and behaviorally, when romantic passions are aroused.

Encyclopedia of Evolutionary Psychological Science - Todd K. Shackelford 2021-03-20

This comprehensive, twelve volume reference work reflects the interdisciplinary influences on evolutionary psychology and serves as a major resource for its history, scientific contributors and theories. It draws on biology, cognitive science, anthropology, psychology, economics, computer science and paleoarchaeology to provide a multifaceted picture of behavioral adaptation in humans and how it adds to our academic and clinical understanding. Edited by a noted figure in evolutionary psychology, with many seminal and renowned contributors, this encyclopedia offers the full breadth of an area that is the forefront of behavioral thinking and investigation.

Male and female reproductive strategies in relation to paternity outcome in Barbary macaques - Katrin Brauch 2007-10-16

From an evolutionary point of view, differential reproduction is the most important aspect of life, because it is the central focus of natural selection. An animal's reproductive strategy determines its contribution to the species' gene pool, and is hence an important variable on which natural selection operates. The theory of

sexual selection predicts that competition for mates between individuals of the same sex (typically males), and mate choice (typically by females) drives the evolution of certain traits (e.g. large body size and canine size, bright colors, ornaments, horns, sex skin swellings). The reason why sexual selection might be biased towards inter-male competition and female choice was later explained in terms of an asymmetry in parental investment. Males produce a large number of sperm cells and thus can potentially have a high number of offspring, in which they usually invest little. Since male reproductive success is limited by the number of successfully fertilized females, males should compete for access to as many fertile females as possible to maximize their reproductive success. Females, on the other hand, produce only few egg cells and are more limited in their number of offspring than males, while often investing far more energy in begetting and raising their young than do males. Therefore females should carefully select their mates and actively solicit those males who meet their needs in order to enhance the fitness of their offspring and thereby their own reproductive success. Given the different strategies that males and females follow to maximize their reproductive success, it is obvious that there is a conflict between the sexes over reproduction. In most species, however, the role of male and female strategies and the interplay between these roles in determining an individual's reproductive success is poorly understood. Among primates, sexual selection has for a long time been envisioned as operating principally among males and primate mating systems have thus usually been described as being male dominated or controlled. In species living in multimale-multifemale groups, both sexes are likely to affect paternity outcome, but the different selective forces operating on male and female reproductive processes can be expected to lead

to opposing strategies (see above). Male dominance, and thereby the ability to monopolize access to fertile females, seems to be one of the main factors influencing a male's lifetime reproductive success in many primate species. However, nowadays there is increasing evidence that other factors (e.g. alternative mating strategies, post-copulatory mechanisms) are also involved, and that female primates are not only passive recipients of "male choice", but do show preferences for certain males as mating partners and might thus play an important role in paternity determination. However, information on the relative importance of male and female reproductive strategies upon paternity outcome in primates is still limited. To study the mechanisms leading to paternity and to examine the relative importance of male and females in determining male reproductive success, the Barbary macaque is a particularly interesting species due to the following characteristics: i) highly seasonal breeding with a potentially high degree of overlap between fertile phases providing females with more freedom to escape male monopolization attempts, ii) an almost equal adult sex ratio, with the consequence that many males compete with each other for access to fertile females, iii) an apparently low degree of male-male aggression and a less strict dominance hierarchy, iv) extended consortships do not occur, suggesting that males have little opportunity to monopolize access to fertile females, v) a highly promiscuous mating system, with females often being observed to actively solicit males and to mate with multiple males in rapid succession. All these characteristics suggest that male contest competition over females is low and that therefore in Barbary macaques the females might have a relatively high influence on paternity outcome, different to the situation seen in many other macaque species. Studies on reproductive success in this species so far have led to contradicting results. In contrast to a study on a semi-free ranging population in which a clear relation between rank and reproductive success was found, a recent study on the Gibraltar population showed no clear relationship between rank and paternity. Furthermore, no study has yet investigated the proximate mechanisms underlying paternity

outcome in this species, irrespective of whether paternity is related to male rank or not. Hence, it remains unclear to what extent the reproductive strategies of males and females interact and what the relative contributions of these strategies are for determining paternity outcome in the Barbary macaque. The overall aim of this thesis was therefore to examine the relative importance of male and female reproductive strategies in determining paternity outcome in a free-ranging group of Barbary macaques in Gibraltar in order to contribute to a better understanding of the proximate mechanisms regulating reproductive success in multimale-multifemale primate groups. The study combined detailed behavioral observations on sexual activity with non-invasive methodologies for the assessment of female reproductive status and determination of paternity based on fecal analysis. In an initial step (chapter 2) information on the distribution of mating activity throughout the ovarian cycle, particularly in relation to the timing of ovulation was examined. For this, a combination of behavioral observation and endocrinological data from 13 free-ranging Chapter 5: Summary females gathered over a period of four mating seasons was used. Data on i) rates of copulation (ejaculatory, non-ejaculatory), ii) patterns of male inspections of females and iii) time spent in consortship were related to the time of ovulation and the female fertile phase in order to clarify if males do concentrate their mating effort around ovulation and whether or not timing of the fertile phase in Barbary macaques is concealed from males. In addition, the data were related to female sex hormone levels. The results indicated that all behaviors varied predictably with ovarian cycle stage. Rates of copulations were found to increase towards the time of ovulation, with a distinct peak of ejaculatory (but not non-ejaculatory) copulations occurring in the fertile phase. There was also a significant cycle phase effect on the proportion of time spent in consortship and inspection rate with values being significantly higher during the fertile phase compared to the pre- and postfertile phase for consortships and between the fertile and postfertile phase for male inspections. Frequencies of all three male sexual behaviors were significantly correlated with levels of

female sex hormones, with rates of ejaculatory copulations and proportion of time spent in consortship being highly positively correlated with female estrogen levels. In sum, this part of the study provided clear evidence that despite a high degree of female promiscuity, Barbary macaque males concentrate their reproductive effort to the fertile phase, implying that they are able to discern this period and that thus timing of ovulation is not concealed from them. Moreover, the results suggested that estrogen related cues are involved in the process of recognition of female reproductive status by males, which provided the basis for studying the nature of these cues. It was therefore investigated on which cue(s) males might make their mating decision (chapter 3). Specifically, the value of anogenital swelling and female sexual behavior (cues that have been shown to be estrogen related in other primate species) in advertising female fertility status, and the relative role they may play as a signal to males used for timing their reproductive effort (e.g. ejaculatory copulations), was investigated. Data on anogenital swelling size, using digital images, and copulatory behavior of 11 females were collected during four mating seasons and data on female sexual behavior were collected during two of the four seasons. The data were related to the time of ovulation and the fertile phase. Specifically it was investigated i) how frequencies of female sexual behaviors and anogenital swelling size change throughout the ovarian cycle and in particular in relation to the timing of ovulation, ii) whether rates of female sexual behaviors and swelling size are elevated during the fertile phase compared to the pre- and postfertile phase of the female cycle iii) whether rates of male copulations (ejaculatory and non-ejaculatory) differ between stages of maximum and pre- and post-maximum swelling size and iv) whether and in which way female sexual behaviors and the size of the swelling are related to female estrogen levels. Overall, rates of all female sexual behaviors examined were not correlated with female estrogen levels and did not significantly differ between the fertile and non-fertile phases of the cycle. In contrast, swelling size was significantly correlated with female estrogen levels and increased predictably towards ovulation, with size being maximal

during the fertile phase. Moreover, frequencies of male ejaculatory copulations showed a strong positive correlation with swelling size and highest rates were found during maximum swelling. The results provide strong evidence that female Barbary macaques honestly signal the probability of fertility through sexual swelling and that males apparently use this information to time their mating activities. This should in principle then facilitate male monopolization behavior. On the other hand, as mentioned before, female Barbary macaques should have a high degree of freedom to exert direct mate choice. The final question pursued in chapter 4 was therefore to examine what actually determines paternity outcome in the Barbary macaque. Specifically the relative importance of male monopolization, female direct mate choice and postcopulatory mechanisms in influencing male reproductive success were examined using a combination of behavioral observations, endocrine assessment of the female fertile phase, and paternity determination from 8 females, collected over a period of two mating seasons. Paternity outcome, number and duration of consortships, female sexual behaviors and copulations were analyzed to investigate i) how paternity is distributed between high- and low-ranking males, ii) whether there are rank-related differences in male consortship behavior and male mating success, iii) whether the frequencies of female proceptive and receptive behaviors differ in relation to male rank and iv) if the assigned fathers differ from non-fathers with respect to consortship behavior, mating success, and solicitations and mating refusals received from females. The majority of infants of which paternity was determined, were sired by high-ranking males. The results indicated that this rank-related reproductive skew was not due to successful male monopolization, since females were only half of the observation time during their fertile phase consorted by males. More importantly, females were in consort with at least two different males during the fertile phase. High-ranking males, however, consorted females significantly more often and for a longer duration compared to low-ranking males and also showed significantly higher rates of copulation and ejaculation. In addition, there

was a rank-related difference in female solicitation frequencies, with a strong bias towards high-ranking males. The frequencies/duration of behaviors shown by or towards the assigned fathers, however, did not significantly differ from those shown by or towards non-fathers. Collectively, the data Chapter 5: Summary indicate that rank is an important determinant of male reproductive success in free-ranging Barbary macaques. More importantly, however, they suggest that the observed reproductive skew between males is related more to mechanisms of female direct mate choice than to male monopolization of fertile females. Since, however, females mated with many males and fathers were not preferred over non-fathers, paternity seemed to be determined by mechanisms operating at the post-copulatory level, such as sperm competition or cryptic female choice. Taken together, by combining behavioral, endocrinological and genetic data, this thesis has contributed new information to a better understanding of the proximate mechanisms influencing male reproductive success in free-ranging Barbary macaques. The data clearly suggest that Barbary macaque males are able to discern the female fertile phase based on an honest signal provided by the female which, given the data available, seems to be a common feature among macaque species. Although this helps males to concentrate copulations to the time when conception probability is high, male monopolization was not an important determinant of male reproductive success. Female direct mate choice and post-copulatory mechanisms rather seem to be the predominant determinants of male reproductive success in the Barbary macaque. Mating promiscuously but concentrating paternity in dominant males, may help female Barbary macaques to receive a number of benefits (e.g. receiving "good sperm", avoiding genetic incompatibilities, reducing the risk of infanticide). However, further studies on these potential benefits and their possible fitness consequences for males and females are needed. This will improve our understanding of how sexual selection has shaped the reproductive biology of the Barbary macaque and, more generally, would also contribute to a better understanding of the evolution and behavioral

ecology of primates.

The Evolutionary Biology of Human Female Sexuality - Randy Thornhill 2008

This title introduces a theoretical framework for understanding women's sexuality based on comparative female sexuality across all vertebrate animals. It shows that estrus is present in human females, contrary to earlier research.

Sexual Coercion in Primates and Humans - Professor of Anthropology Martin N Muller 2009-06-19

This book presents extensive field research and analysis to evaluate sexual coercion in a range of species—including all of the great apes and humans—and to clarify its role in shaping social relationships among males, among females, and between the sexes.

Sexual Strategies - Mary Batten 1992

Science acknowledges that much of human behavior is biological rather than cultural, and human reproduction is much like "the birds and the bees". Here award-winning science writer Mary Batten compares human and animal mating behavior and explains why men love to look at voluptuous young women and why women are attracted to wealthy, powerful men.

The Mandrill - Alan F. Dixson 2015-11-12

Living in the remote forests of western central Africa, the mandrill (*Mandrillus sphinx*) is notoriously elusive and has evaded scientific scrutiny for decades. Yet, it is the largest and most sexually dimorphic of all the Old World monkeys, and perhaps the most colourful of all the mammals. Synthesising the results of more than twenty-five years of research, this is the first extensive treatment of the mandrill's reproductive and behavioural biology. Dixson explores in detail the role that sexual selection has played in shaping the mandrill's evolution, covering mechanisms of mate choice, intra-sexual competition, sperm competition and cryptic female choice. Bringing to life, through detailed descriptions and rich illustrations, the mandrill's communicatory biology and the functions of its brightly coloured adornments, this book sheds new light on the evolutionary biology of this fascinating primate.

Handbook of the Evolution of Human Sexuality - Michael R. Kauth 2013-01-11

Expand your knowledge—with theories and

concepts that may challenge your assumptions about sexual attraction Human sexuality can be better understood by knowing how sexual psychologies may have evolved throughout the ages. Handbook of the Evolution of Human Sexuality presents a detailed examination of human sexuality, the assumptions about concepts and terms pertaining to sexuality, and the latest theories on the evolution of human sexual attraction. Leading experts explore various aspects of evolutionary theory, with a focus on Evolutionary Psychology (EP). Discussions include mate preferences, mating behavior, mate signaling, pheromones, and same-sex attraction. This comprehensive source also presents three groundbreaking theories of the evolution of same-sex attraction. Handbook of the Evolution of Human Sexuality takes current assumptions about human sexuality, explains each in turn, and then offers fresh perspectives on conventional concepts of sexual orientation. This extensive resource provides ample evidence to argue that researchers should investigate sexual relationships based on a person's characteristics such as personal traits, complementary roles/status, sexual acts, or situational context rather than simply the sex of the partner. The book provides a discussion of evolutionary theory, evolution of human sexual culture, evolution of sexual pleasure, and detailed analysis of assumptions about sexual orientation. The text is carefully referenced. Some of the topics explored by Handbook of the Evolution of Human Sexuality include: links to non-human primate sexual behaviors and the emergence of human (sexual) nature EP research on consensual adult human sexual behaviors studies of evolved male and female mating strategies, mate preferences, and sexual psychologies a brief history of the theory of evolution ancient culture, archeology, and an overview of premodern human sexuality evolutionary history of sexual pleasure human mating strategies development of mate preferences sexual signals, such as distinctive physical features, material wealth, etc. theories of the evolution of same-sex sexual attraction and behavior Primatologist Paul Vasey's observations of female Japanese macaques and their female-female sexual encounters—with an examination of human male-male behavior

evolutionary history of female-female affectional bonding with a new theory on the behavior evolutionary history of male-male sexual behavior—with intriguing thoughts on why it happened evolutionary history of pheromones as chemical messengers much more Handbook of the Evolution of Human Sexuality is an important, thought-provoking resource perfect for evolutionary psychologists, sexologists, educators, researchers, scholars, and graduate students.

Sexual Coercion in Primates and Humans - Martin N. Muller 2009-06-19

This book presents extensive field research and analysis to evaluate sexual coercion in a range of species—including all of the great apes and humans—and to clarify its role in shaping social relationships among males, among females, and between the sexes.

Evolutionary Perspectives on Human Sexual Psychology and Behavior - Viviana A. Weekes-Shackelford 2014-07-08

This volume in the Springer Series in Evolutionary Psychology presents a state of the art view of the topic of sexuality and sexual behavior drawing on theoretical constructs and research of noted individuals in the field. Comprehensive and multi-disciplinary, this book seeks to provide a broad overview without sacrificing the complexity of a multi-faceted approach. The book is framed by introductory and closing sections that provide a context for the range of ideas contained within. Ample space is provided in designated sections that focus on key areas of sexuality from both male and female perspectives and that include information from primate studies. This volume can serve as a graduate text in sexual behavior in evolutionary terms and as a guide for further research.

Female Choices - Meredith F. Small 2018-05-31

Primate Sexuality - Alan F. Dixson 2012-01-26 Primate Sexuality provides an authoritative and comprehensive synthesis of current research on the evolution and physiological control of sexual behaviour in the primates - prosimians, monkeys, apes, and human beings. This new edition has been fully updated and greatly expanded throughout to incorporate a decade of new research findings. It maintains the depth

and scientific rigour of the first edition, and includes a new chapter on human sexuality, written from a comparative perspective. It contains 2600 references, almost 400 figures and photographs, and 73 tables.

Primate Paradigms - Linda Marie Fedigan 1992-06

This critical review of behavior patterns in nonhuman primates is an excellent study of the importance of female roles in different social groups and their significance in the evolution of human social life. "A book that properly illuminates in rich detail not only developmental and socioecological aspects of primate behavior but also how and why certain questions are asked. In addition, the book frequently focuses on insufficiently answered questions, especially those concerned with the evolution of primate sex differences. Fedigan's book is unique . . . because it places primate adaptations and our explanation of those patterns in a larger intellectual framework that is easily and appropriately connected to many lines of research in different fields (sociology, psychology, anthropology, neurobiology, endocrinology, and biology)—and not in inconsequential ways, either."—James McKenna, *American Journal of Primatology* "This is the feminist critique of theories of primate and human evolution."—John H. Cook, *Nature*

Behavioral Mechanisms of Postcopulatory Sexual Selection in Wild Pigtailed Macaques (Macaca Leonina). - Cindy Lee Carlson 2011

Evolutionary theory predicts the sex with the higher level of investment in an offspring should be choosier when picking a mate. In primates, as in other mammals, this phenomenon would manifest as female choice. However, in nature female mate choice is often constrained by other factors, such as high levels of sexual size dimorphism and the risk of infanticide.

Conditions where precopulatory mate choice would be costly could result in the evolution of mechanisms of postcopulatory choice. In some primate species, females give copulation calls following the termination of a copulation, and this is believed to be a mechanism of postcopulatory female choice. A field study of wild northern pigtailed macaques (*Macaca leonina*) was undertaken in order to determine the function of the copulation call in this species.

This species has never been studied in the wild, so an overview of their social structure and ecology is presented. Then general patterns of sexual behavior are described and analyzed, followed by an analysis of the usage and function of copulation calls. As in other primate species, dominance rank of both males and females plays an important role in copulatory behavior. The alpha male achieved the greatest copulatory success, and his efforts were concentrated on high-ranking females. Copulation calls are given most frequently by high-ranking females, but the rank of the male partner does not affect the propensity of a female to give a copulation call following a copulation. However, as it is primarily high-ranking females that give copulation calls and the alpha male mates most frequently with high ranking females, a higher percentage of copulations involving the alpha male were followed by copulation calls than for other males. Mount series in which the female gave a copulation call were of longer duration and more likely to end in ejaculation. They were also less likely to be followed by the female mating with a different male. General rates of behaviors largely remained the same after a copulation call, with the exception of receiving decreased aggression from the male partner and spending more time engaged in grooming with males other than the current partner. These data show that copulation calls result in increased interest by other males, resulting in the increased time spent grooming, and by the consort male, resulting in longer mount series and a higher likelihood of ejaculation. As such, I conclude that copulation calls are a mechanism of postcopulatory female choice utilized primarily by high-ranking females and indicate a preference for the current partner.

Harems and Other Horrors - Anne Innis Dagg 1983

The Evolution of Human Sexuality - Donald Symons 1979-08-30

Anthropology, Sexual Studies, Psychology, Sociology, Gender and Cultural Studies

Strategies of Sex and Survival in Female Hamadryas Baboons - Larissa Swedell

2015-10-15

This book describes the first field study focusing on the behavior of hamadryas females in the

wild. In its attempt to rectify the male-biased view of hamadryas baboon behavior that has persisted over the decades, this book suggests that female behavior contributes more to hamadryas social organization than has previously been assumed and that females may, in fact, be acting in their own best interests after all. For upper-level undergraduate courses on primate behavior and ecology.

Social Behavior of Female Vertebrates - Samuel Wasser 2012-12-02

Social Behavior of Female Vertebrates focuses on the evolution of reproductive behavior in female vertebrates ranging from fish to birds and humans, including issues of mate choice and other factors underlying female attitudes toward males. It also looks at the evolution of mating systems; the co-evolution of the sexes; sex-role reversal; reproductive competition between females; maternal behavior; and how females enhance the investment received by their offspring from others. It also considers other social behaviors that influence the nature of affiliative associations between females.

Organized into three parts encompassing 13 chapters, this volume begins with an overview of behavioral biology and sources of variation in female reproductive success. It then discusses the establishment and maintenance of sex biases, sex differences mediated by sexual selection, constraints on female choice in the mottled sculpin, mate choice by females in sexual selection of bird song, and female manipulation of male avoidance of cuckoldry behavior in the ring dove. The reader is also introduced to the evolution of polyandry in shorebirds; reproductive strategies in human females; social and health-seeking behaviors of Taiwanese women; female roles in cooperatively breeding acorn woodpeckers; altruism in coati bands; cooperation and reproductive competition among female African elephants; mate choice in matrilineal macaque groups; and reproductive competition and cooperation

among female yellow baboons. This book is a valuable resource for scientists and behavioral biologists, as well as lay people whose interests span a variety of fields.

Sexual Selection and the Descent of Man - Bernard Campbell 2017-07-12

Just over one hundred and thirty years ago Charles Darwin, in *The Descent of Man and Selection in Relation to Sex* (1871), developed remarkably accurate conclusions about man's ancestry, based on a review of general comparative anatomy and psychology in which he regarded sexual selection as a necessary part of the evolutionary process. But the attention of biologists turned to the more general concept of natural selection, in which sexual selection plays a complex role that has been little understood. This volume significantly broadens the scope of modern evolutionary biology by looking at this important and long neglected concept of great importance. In this book, which is the first full discussion of sexual selection since 1871, leading biologists bring modern genetic theory and behavior observation to bear on the subject. The distinguished authors consider many aspects of sexual selection in many species, including man, within the context of contemporary evolutionary theory and research. The result is a remarkably original and well-rounded view of the whole concept that will be invaluable especially to students of evolution and human sexual behavior. The lucid authority of the contributors and the importance of the topic will interest all who share in man's perennial fascination with his own history. The book will be of central importance to a wide variety of professionals, including biologists, anthropologists, and geneticists. It will be an invaluable supplementary text for courses in vertebrate biology, theory of evolution, genetics, and physical anthropology. It is especially important with the emergence of alternative explanations of human development, under the rubric of creationism and doctrines of intelligent design.

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