

# **Biology 484 – Ethology**

## **Chapter 10 – Evolution of Reproductive Behavior**

# Reproductive Behavior Evolution

**Gaurav Shekhar**



## **Reproductive Behavior Evolution:**

**Reproductive Behavior and Evolution** J. Rosenblatt, 2013-06-29 The Daniel S Lehrman Memorial Symposia Series will publish the proceedings of symposia devoted to the evolution development and organization of behavior These various symposia will bring together at intervals scientists studying problems from each of these view points The aim is to attempt to integrate our knowledge derived from these different sources and to familiarize scientists working on similar behavior patterns with the work of their colleagues in related fields of study Each volume therefore will be devoted to a specific topic in the field of animal behavior which will be explored with respect to its evolutionary aspects including the adaptive nature of the behavior with respect to its developmental aspects including neural hormonal and experiential influences and with respect to the analysis of features of organization including motivational perceptual and motor aspects and their physiological bases It is our feeling that the most appropriate memorial to our colleague and close friend Daniel S Lehrman is the continuation of his valuable contributions toward integrating these approaches to the study of animal behavior which he pursued so effectively during his own life Daniel S Lehrman's lifelong love and study of animal behavior gave us a wealth of new insights into reproductive behavior and evolution It is therefore appropriate that the first symposium of this series is devoted to recent advances in this field

**Evolutionary Perspectives on Human Reproductive Behavior** Dori LeCroy, Peter Moller, 2000 A central aspect of human adaptation reproductive behaviour is studied through the multiple lenses of philosophy biology psychology and anthropology all united by an evolutionary perspective Although reproduction is an intrinsic mechanism of evolution this colloquium shows that reproductive behaviours yield new significance for evolution theory when re examined in a multidisciplinary setting This volume focuses on explication of the adaptive evolved nature of our own reproduction with topics such as how mate choice shaped human nature symmetry in mate selection the evolution of moral dispositions and the sexist order of the bonobos This look at reproduction as a mechanism of human evolution reveals underlying physiologic mechanisms as well as comparative and interesting cross cultural aspects that emerge from social sciences and anthropology

**Human Reproductive Behaviour** Laura Betzig, Monique Borgerhoff Mulder, Paul Turke, 1988-03-31

**Reproductive Behavior and Evolution** J. Rosenblatt, 2014-01-15

**Developmental Biology of Teleost Fishes** Gaurav Shekhar, 2025-02-20 Developmental Biology of Teleost Fishes offers a comprehensive exploration of the intricate biological processes in teleost fish development Authored by leading experts this book delves into the fascinating world of teleost fishes highlighting their diverse evolutionary history reproductive strategies and physiological adaptations We provide deep insights into the genetic regulation environmental influences and developmental plasticity that shape the life history of teleost fishes Through detailed discussions and engaging illustrations the book explores the role of teleost fishes as model organisms in biomedical research offering valuable parallels to human health and disease Additionally we examine practical applications in aquaculture fisheries management and environmental conservation With its thorough

coverage and interdisciplinary approach *Developmental Biology of Teleost Fishes* is an essential resource for researchers educators and students interested in the biology ecology and evolution of teleost fishes This book offers a wealth of knowledge and inspiration for understanding the remarkable diversity of teleost fishes **Evolution, Gender, and Rape** Cheryl Brown Travis, 2003 Explains the flaws and limitations of a strictly biological model of rape and argues that traditionally stereotyped gender roles are grounded more in culture than in differing biological reproductive roles back cover

*The Ecology and Evolution of Human Reproductive Behavior* Kaylynne Glover, 2022 **Reproductive Behavior** William Montagna, 2013-03-13 Sexual compatibility between male and female partners is indispensable to normal and successful fertilization in mammals Thus the genes from males and females whose sexual behavior is characterized by awkwardness ineptness and miscues are eliminated from the gene pool of the species In human societies this compatibility is not always evident and the behavior that precedes and accompanies copulation and fertilization is exceedingly complex and affected by many variables As in most other species of animals the entire repertoire of reproductive behavior of man is not well understood by man When viewed discussed or reported the topic is too often and most unfortunately regarded as an amalgam of emotion mysticism and biology In the past such emotion charged approaches to the biological fact of reproduction did much to obfuscate the subject and as a result much of the array of hormonal neural psychological and social variables that control and insure the successful reproduction of the human species remains even now in Victorian ignorance But with the recent rash of books and scientific treatises on the subject some progress has been made in elucidating human reproduction and associated sexual behavior However so entrenched are some of our social taboos that the danger still lurks of equating social acceptance of the words with an understanding all too lacking of the process to which they refer

**Behavioral Endocrinology** Jill B. Becker, 2002 The second edition of a popular introduction to the field of behavioral endocrinology *Evolutionary Paleobiology of Behavior and Coevolution* A.J. Boucot, 2013-10-22 This book is the culmination of many years of research by a scientist renowned for his work in this field It contains a compilation of the data dealing with the known stratigraphic ranges of varied behaviors chiefly animal with a few plant and fungal and coevolved relations A significant part of the data consists of frozen behavior i.e. those in which an organism has been preserved while actually doing something as contrasted with the interpretations of behavior of an organism deduced from functional morphology important as the latter may be The conclusions drawn from this compilation suggest that both behaviors and coevolved relations appear infrequently following which there is relative fixity of the relation i.e. two rates of evolution very rapid and essentially zero This conclusion complies well with the author's prior conclusion that community evolution followed the same rate pattern In fact communities are regarded here as in large part expressions of both behavior and coevolved relations rather than as random aggregates controlled almost wholly by varied unrelated physical parameters tracked by organisms i.e. the concept that communities have no biologic reality being merely statistical abstractions The book is

illustrated throughout with more than 400 photographs and drawings It will be of interest to ethologists evolutionists parasitologists paleontologists and palaeobiologists at research and post graduate levels *Biology and Evolution of the Mexican Cavefish* Alex Keene,Masato Yoshizawa,Suzanne Elaine McGaugh,2015-10-12 Biology and Evolution of the Mexican Cavefish features contributions by leading researchers in a comprehensive unique work that examines a number of distinct areas of biology evolution development ecology and behavior using the Mexican cavefish as a powerful model system to further understanding of basic biological processes such as eye degeneration hearing craniofacial development sleep and metabolic function These fish are currently being used to better understand a number of issues related to human health including age related blindness sleep obesity mood related disorders and aging The recent sequencing of the cavefish genome broadens the interest of this system to groups working with diverse biological systems and has helped researchers identify genes that regulate sleep eye degeneration and metabolic function Mexican cavefish are particularly powerful for the study of biological processes because these fish evolved independently in twenty nine caves in the Sierra de el Abra Region of Northeast Mexico These fish have dramatic adaptations to the cave environment and this can be used to identify genes involved in disease related traits This scholarly text will be of interest to researchers and students throughout diverse areas of biology and ecology It includes photographs of animals and behavior in laboratory and natural settings that will also increase interest and accessibility to non experts Includes a mixture of images and illustrations such as the geographical distribution of cave pools and the developmental biology of the nervous system Features a companion site with geographical maps Fills a notable gap in the literature on a topic of broad interest to the scientific community Presents the recent sequencing of the cavefish genome as a groundbreaking development for researchers working with diverse biological systems **The Evolution of Primary Sexual Characters in Animals** Janet Leonard,Alex Cordoba-Aguilar,2010-07-16

Primary sexual traits those structures and processes directly involved in reproduction are some of the most diverse specialized and bizarre in the animal kingdom Moreover reproductive traits are often species specific suggesting that they evolved very rapidly This diversity long the province of taxonomists has recently attracted broader interest from evolutionary biologists especially those interested in sexual selection and the evolution of reproductive strategies Primary sexual characters were long assumed to be the product of natural selection exclusively A recent alternative suggests that sexual selection explains much of the diversity of primary sexual characters A third approach to the evolution of reproductive interactions after copulation or insemination has been to consider the process one of sexual conflict That is the reproductive processes of a species may reflect as does the mating system evolution acting on males and on females but in different directions In this volume authors explore a wide variety of primary sexual characters and selective pressures that have shaped them from natural selection for offspring survival to species isolating mechanisms sperm competition cryptic female choice and sexual arms races Exploring diverse reproductive adaptations from a theoretical and practical perspective The

Evolution of Primary Sexual Characters will provide an unparalleled overview of sexual diversity in many taxa and an introduction to the issues in sexual selection that are changing our view of sexual processes **Insect Behavior** Alex Córdoba-Aguilar, Daniel González-Tokman, Isaac González-Santoyo, 2018-07-19 Insects display a staggering diversity of behaviors Studying these systems provides insights into a wide range of ecological evolutionary and behavioral questions including the genetics of behavior phenotypic plasticity chemical communication and the evolution of life history traits This accessible text offers a new approach that provides the reader with the necessary theoretical and conceptual foundations at different hierarchical levels to understand insect behavior The book is divided into three main sections mechanisms ecological and evolutionary consequences and applied issues The final section places the preceding chapters within a framework of current threats to human survival climate change disease and food security before providing suggestions and insights as to how we can utilize an understanding of insect behavior to control and or ameliorate them Each chapter provides a concise authoritative review of the conceptual theoretical and methodological foundations of each topic

**Sperm Competition and the Evolution of Animal Mating systems** Robert L. Smith, 2012-12-02 Sperm Competition and the Evolution of Animal Mating Systems describes the role of sperm competition in selection on a range of attributes from gamete morphology to species mating systems This book is organized into 19 chapters and begins with the conceptualization of sperm competition as a subset of sexual selection and its implications for the insects The following chapter describes the relationship between multiple mating and female fitness with an emphasis on determining the conditions under which selection on females is likely to counteract selection on males for avoiding sperm competition Other chapters consider the female perspective on sperm competition the evolutionary causation at the level of the individual male gamete and the correlation of high paternal investment and sperm precedence in the insects The remaining chapters are arranged phylogenetically and explore the sperm competition in diverse animal taxa such as the Drosophila Lepidoptera spiders amphibians and reptiles These chapters also cover the evolution of direct versus indirect sperm transfer among the arachnids or the problem for kinship theory presented by multiple mating and sperm competition in the Hymenoptera This book further discusses the remarkable potential for sperm competition among certain temperate bat species whose females store sperm through winter hibernation and the mixed strategies and male caused female genital trauma as possible sperm competition adaptations in poeciliid fishes The concluding chapter examines the predictions concerning testes size and mating systems in the primates and the possible role of sperm competition in human selection This book is of great value to reproductive biologists and researchers [Encyclopedia of Animal Behavior: A-C](#) Marc Bekoff, 2004 Entries examine a broad array of different species and behavior patterns using techniques that range from molecular approaches to the study of behavior to analyses of individuals populations species and ecosystems **The Handbook of Evolutionary Psychology** David M. Buss, 2005-07-15 The foundations of practice and the most recent discoveries in the intriguing new field of

evolutionary psychology Why is the mind designed the way it is How does input from the environment interact with the mind to produce behavior By taking aim at such questions the science of evolutionary psychology has emerged as a vibrant new discipline producing groundbreaking insights In *The Handbook of Evolutionary Psychology* leading contributors discuss the foundations of the field as well as recent discoveries currently shaping this burgeoning area of psychology Guided by an editorial board made up of such luminaries as Leda Cosmides John Tooby Don Symons Steve Pinker Martin Daly Margo Wilson and Helena Cronin the text's chapters delve into a comprehensive range of topics covering the full range of the discipline Foundations of evolutionary psychology Survival Mating Parenting and kinship Group living Interfaces with traditional disciplines of evolutionary psychology And interfaces across disciplines In addition to an in depth survey of the theory and practice of evolutionary psychology the text also features an enlightening discussion of this discipline in the context of the law medicine and culture An Afterword by Richard Dawkins provides some final thoughts from the renowned writer and exponent of evolutionary theory Designed to set the standard for handbooks in the field *The Handbook of Evolutionary Psychology* is an indispensable reference tool for every evolutionary psychologist and student

**The Evolution of Social Behavior in Insects and Arachnids** Jae C. Choe, Bernard J. Crespi, 1997 Social insects and arachnids exhibit complex forms of behavior that involve cooperation in building a nest defending against attackers or rearing offspring This book is a comprehensive up to date guide to sociality and its evolution in a wide range of taxa

**Encyclopedia of Animal Behavior: R-Z** Marc Bekoff, 2004 Entries examine a broad array of different species and behavior patterns using techniques that range from molecular approaches to the study of behavior to analyses of individuals populations species and ecosystems

**Molecular Ecology and Evolution** John C. Avise, 2010 This volume is a reprinted collection of 69 classics from the Avise laboratory chosen to illustrate a trademark brand of research that harnesses molecular markers to scientific studies of natural history and evolution in the wild Spanning the early 1970s through the late 2000s these articles trace how the author and his colleagues have used molecular genetics techniques to address multifarious conceptual topics in genetics ecology and evolution in a fascinating menagerie of creatures with oft peculiar lifestyles The organisms described in this volume range from blind cavefish to male pregnant pipefishes and sea spiders from clonal armadillos to natal homing marine turtles from hermaphroditic sea snails to hybridizing monkeys and tree frogs from clonal marine sponges to pseudohermaphroditic mollusks to introgressing oysters and from endangered pocket gophers terrapins and sparrows to unisexual all female fish species to living fossil horseshoe crabs and even to a strange little fish that routinely mates with itself The conceptual and molecular topics addressed in this volume are also universal ranging from punctuated equilibrium to coalescent theory to the need for greater standardization in taxonomy from cytonuclear disequilibrium statistics to the ideas of speciation duration and sympatric speciation from historical population demography to phylogenetic reconstructions of males sexual ornaments from the population genetic consequences of inbreeding to Pleistocene effects on phylogeography and from the molecular

underpinnings of null alleles to the notion of clustered mutations that arise in groups to compelling empirical evidence for the unanticipated processes of gene conversion and concerted evolution in animal mitochondrial DNA Overall this collection includes many of the best most influential sometimes controversial occasionally provocative always intriguing or otherwise entertaining publications to have emerged from the Avise laboratory over the last four decades Thus this book conveys through the eyes of one of the field's longstanding pioneers what the organismal side of molecular ecology and evolution really means

**The Oxford Handbook of Evolutionary Psychology and Behavioral Endocrinology** Lisa L. M. Welling, Todd K. Shackelford, 2019-03-19 The Oxford Handbook of Evolutionary Psychology and Behavioral Endocrinology offers a comprehensive and compelling review of research in behavioral endocrinology from an evolutionary perspective on human psychology Chapters written by renowned experts on human behavior explore a number of subtopics within one of three themes 1 development and survival 2 reproductive behavior and 3 social and affective behavior Such topics include hormonal influences on life history strategy mate choice aggression human hierarchical structure and mood disorders This Handbook is situated at the intersection of evolutionary psychology and behavioral endocrinology Its interdisciplinary approach makes it an important resource for a broad spectrum of researchers graduate students and advanced undergraduates who are interested in studying the motivations and mechanisms that affect behavior



The Top Books of the Year Reproductive Behavior Evolution The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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