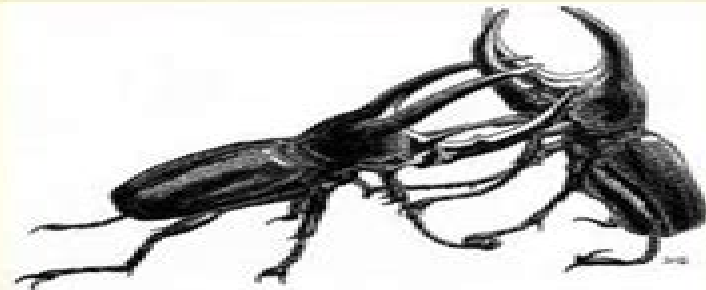
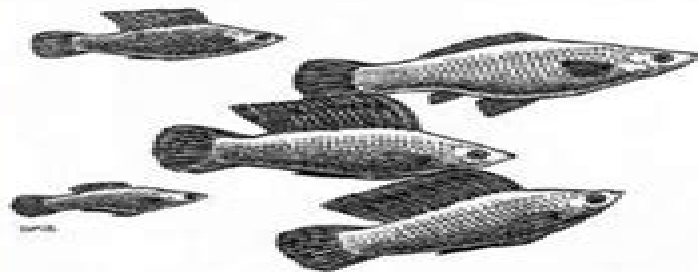
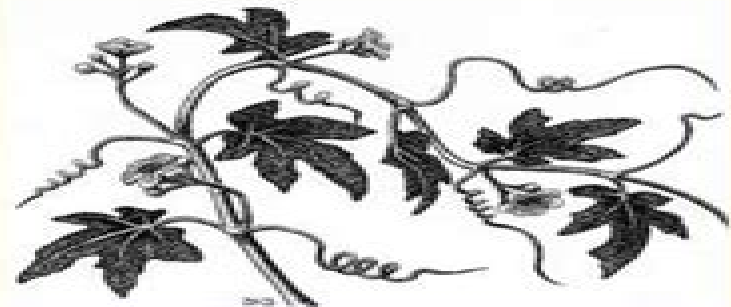
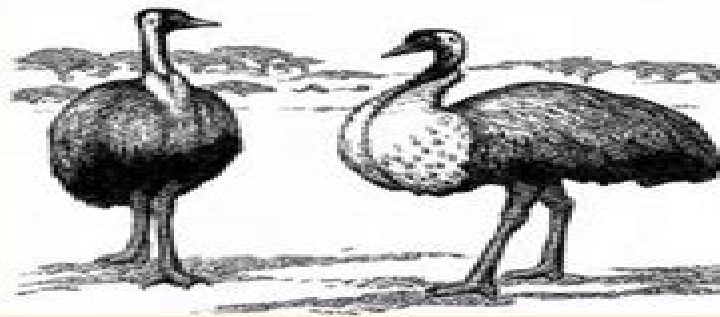


Mating Systems and Strategies

STEPHEN M. SHUSTER
& MICHAEL J. WADE



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Mating Systems And Strategies Monographs In Behavior And Ecology:

Mating Systems and Strategies Stephen M. Shuster, Michael J. Wade, 2019-12-31 This book presents the first unified conceptual and statistical framework for understanding the evolution of reproductive strategies Using the concept of the opportunity for sexual selection the authors illustrate how and why sexual selection though restricted to one sex and opposed in the other is one of the strongest and fastest of all evolutionary forces They offer a statistical framework for studying mating system evolution and apply it to patterns of alternative mating strategies In doing so they provide a method for quantifying how the strength of sexual selection is affected by the ecological and life history processes that influence females spatial and temporal clustering and reproductive schedules Directly challenging verbal evolutionary models that attempt to explain reproductive behavior without quantitative reference to evolutionary genetics this book establishes a more solid theoretical foundation for the field Among the weaknesses the authors find in the existing data is the apparent ubiquity of condition dependent mating tactics They identify factors likely to contribute to the evolution of alternative mating strategies which they argue are more common than generally believed and illustrate how to measure the strength of selection acting on them Lastly they offer predictions on the covariation of mating systems and strategies consider the underlying developmental biology behind male polyphenism and propose directions for future research Informed by genetics this is a comprehensive and rigorous new approach to explaining mating systems and strategies that will influence a wide swath of evolutionary biology

Lobsters Bruce Phillips, 2008-04-15 Lobsters are one of the most commercially important groups of animals harvested and farmed throughout the world Bringing high prices on the market and the table the results and yields of farmed species has seen continued growth Under the Editorship of Bruce Phillips an international team of authors provide exhaustive coverage of these fascinating creatures stretching from growth and development to management and conservation providing the reader with Key information for lobster farmers and harvesters Organisation of the species by genera for ease of use Coverage of parasites pathogens and commensals their impact detection and measurement Fisheries scientists aquaculture personnel aquatic and invertebrate biologists physiologists ecologists marine biologists and environmental biologists will all find this a vital source of reference Libraries in universities and research establishments where biological and life sciences and fisheries and aquaculture are studied and taught will find it a valuable addition to their shelves

The Princeton Guide to Evolution David A. Baum, Douglas J. Futuyma, Hopi E. Hoekstra, Richard E. Lenski, Allen J. Moore, Catherine L. Peichel, Dolph Schluter, Michael C. Whitlock, 2017-03-21 The essential one volume reference to evolution The Princeton Guide to Evolution is a comprehensive concise and authoritative reference to the major subjects and key concepts in evolutionary biology from genes to mass extinctions Edited by a distinguished team of evolutionary biologists with contributions from leading researchers the guide contains some 100 clear accurate and up to date articles on the most important topics in seven major areas phylogenetics and the history of life selection and adaptation evolutionary processes

genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society Complete with more than 100 illustrations including eight pages in color glossaries of key terms suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students scientists in related fields and anyone else with a serious interest in evolution Explains key topics in some 100 concise and authoritative articles written by a team of leading evolutionary biologists Contains more than 100 illustrations including eight pages in color Each article includes an outline glossary bibliography and cross references Covers phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society

Neural Networks and Animal Behavior

Magnus Enquist, Stefano Ghirlanda, 2013-12-03 How can we make better sense of animal behavior by using what we know about the brain This is the first book that attempts to answer this important question by applying neural network theory Scientists create Artificial Neural Networks ANNs to make models of the brain These networks mimic the architecture of a nervous system by connecting elementary neuron like units into networks in which they stimulate or inhibit each other's activity in much the same way neurons do This book shows how scientists can employ ANNs to analyze animal behavior explore the general principles of the nervous systems and test potential generalizations among species The authors focus on simple neural networks to show how ANNs can be investigated by math and by computers They demonstrate intuitive concepts that make the operation of neural networks more accessible to nonspecialists The first chapter introduces various approaches to animal behavior and provides an informal introduction to neural networks their history and their potential advantages The second chapter reviews artificial neural networks including biological foundations techniques and applications The following three chapters apply neural networks to such topics as learning and development classical instrumental condition and the role of genes in building brain networks The book concludes by comparing neural networks to other approaches It will appeal to students of animal behavior in many disciplines It will also interest neurobiologists cognitive scientists and those from other fields who wish to learn more about animal behavior

Hormones and Animal

Social Behavior Elizabeth Adkins-Regan, 2013-12-03 Research into the lives of animals in their natural environments has revealed a rich tapestry of complex social relationships and previously unsuspected social and mating systems The evolution of this behavior is increasingly well understood At the same time laboratory scientists have made significant discoveries about how steroid and peptide hormones act on the nervous system to shape behavior An exciting and rapidly progressing hybrid zone has developed in which these two fields are integrated providing a fuller understanding of social behavior and the adaptive functions of hormones This book is a guide to these fascinating connections between animal social behavior and steroid and peptide hormones a synthesis designed to make it easier for graduate students and researchers to appreciate the excitement engage in such integrative thinking and understand the primary literature Throughout Elizabeth Adkins Regan

emphasizes concepts and principles hypothesis testing and critical thinking She raises unanswered questions providing an unparalleled source of ideas for future research The chapter sequence is by levels of biological organization beginning with the behavior and hormones of individuals proceeding to social relationships and systems and from there to development behavioral evolution over relatively short time scales life histories and their evolution and finally evolution over longer time scales The book features studies of a wide variety of wild and domestic vertebrates along with some of the most important invertebrate discoveries

Calls Beyond Our Hearing Holly Menino, 2012-04-10 Examines the research of communication in the animal world exploring how animals use voices to search for a mate play locate food communicate when threatened and more

The Evolution of Animal Communication William A. Searcy, Stephen Nowicki, 2010-01-01 Gull chicks beg for food from their parents Peacocks spread their tails to attract potential mates Meerkats alert family members of the approach of predators But are these and other animals sometimes dishonest That's what William Searcy and Stephen Nowicki ask in The Evolution of Animal Communication They take on the fascinating yet perplexing question of the dependability of animal signaling systems The book probes such phenomena as the begging of nesting birds alarm calls in squirrels and primates carotenoid coloration in fish and birds the calls of frogs and toads and weapon displays in crustaceans Do these signals convey accurate information about the signaler its future behavior or its environment Or do they mislead receivers in a way that benefits the signaler For example is the begging chick really hungry as its cries indicate or is it lobbying to get more food than its brothers and sisters Searcy and Nowicki take on these and other questions by developing clear definitions of key issues by reviewing the most relevant empirical data and game theory models available and by asking how well theory matches data They find that animal communication is largely reliable but that this basic reliability also allows the clever deceiver to flourish Well researched and clearly written their book provides new insight into animal communication behavior and evolution

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 Göran 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

Transgenesis and the

Management of Vector-Borne Disease Serap Aksoy, 2008-08-21 Parasitic bacterial and viral agents continue to challenge the welfare of humans livestock wild life and plants worldwide The public health impact and financial consequences of these diseases are particularly hard on the already overburdened economies of developing countries especially in the tropics Many of these disease agents utilize insect hosts vectors to achieve their transmission to mammals In the past these diseases were largely controlled by insecticide based vector reduction strategies Now many of these diseases have reemerged in the tropics recolonizing their previous range and expanding into new territories previously not considered to be endemic Habitat change irrigation practices atmospheric and climate change insecticide and drug resistance as well as increases in global tourism human traffic and commercial activities have driven the reemergence and spread of vector borne diseases While these diseases can be controlled through interventions aimed at both their vertebrate and invertebrate hosts no effective vaccines exist and only limited therapeutic prospects are available for their control in mammalian hosts Molecular technologies such as transgenesis which is the subject of this book stand to increase the toolbox and benefit disease management strategies

Tropical Zoology, 2004 *Leks* Jacob Höglund, Rauno V. Alatalo, 2014-07-14 The evolution of leks clusters of small territories where males congregate and display in order to attract mates is of central issue in behavioral ecology because of the insights it offers into female mate choice sexual selection and the evolution of mating systems In the first book on the subject Jacob Höglund and Rauno Alatalo draw together existing knowledge on two main aspects of lekking Why do leks evolve in some species and not in others Why do females of certain lekking species select their mates even though such behavior reaps few or no material benefits for them In each case they emphasize the importance of understanding the selective forces that act on individuals in natural populations Höglund and Alatalo synthesize the available information on lekking in all animal groups and suggest new areas of research Originally published in 1995 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

Behavioral Variation and Genetic Structure in Dusky-footed Woodrats, *Neotoma Fuscipes* Mary Brooke McEachern, 2005

Behavioral Mechanisms in Evolutionary Ecology Leslie Real, 1994-11-30 The first book length exploration of behavioral mechanisms in evolutionary ecology this ambitious volume illuminates long standing questions about cause and effect relations between an animal's behavior and its environment By focusing on biological mechanisms the sum of an animal's cognitive neural developmental and hormonal processes leading researchers demonstrate how the integrated study of animal physiology cognitive processes and social interaction can yield an enriched understanding of behavior With studies of species ranging from insects to primates the contributors examine how various animals identify and use environmental

resources and deal with ecological constraints as well as the roles of learning communication and cognitive aspects of social interaction in behavioral evolution Taken together the chapters demonstrate how the study of internal mechanistic foundations of behavior in relation to their ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation mating and dispersal Behavioral Mechanisms in Evolutionary Ecology shows how a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution Evolutionary Ecology of Social and Sexual Systems J. Emmett Duffy, Martin Thiel, 2007-09-06

Understanding of animal social and sexual evolution has seen a renaissance in recent years with discoveries of frequent infidelity in apparently monogamous species the importance of sperm competition active female mate choice and eusocial behavior in animals outside the traditional social insect groups Each of these findings has raised new questions and suggested new answers about the evolution of behavioral interactions among animals This volume synthesizes recent research on the sexual and social biology of the Crustacea one of the dominant invertebrate groups on earth Its staggering diversity includes ecologically important inhabitants of nearly every environment from deep sea trenches through headwater streams to desert soils The wide range of crustacean phenotypes and environments is accompanied by a comparable diversity of behavioral and social systems including the elaborate courtship and wildly exaggerated morphologies of fiddler crabs the mysterious queuing behavior of migrating spiny lobsters and even eusociality in coral reef shrimps This diversity makes crustaceans particularly valuable for exploring the comparative evolution of sexual and social systems Despite exciting recent advances however general recognition of the value of Crustacea as models has lagged behind that of the better studied insects and vertebrates This book synthesizes the state of the field in crustacean behavior and sociobiology and places it in a conceptually based comparative framework that will be valuable to active researchers and students in animal behavior ecology and evolutionary biology It brings together a group of internationally recognized and rising experts in fields related to crustacean behavioral ecology ranging from physiology and functional morphology through mating and social behavior to ecology and phylogeny Each chapter makes connections to other non crustacean taxa and the volume closes with a summary section that synthesizes the contributions discusses anthropogenic impacts highlights unanswered questions and provides a vision for profitable future research **Proceedings**, 2008 **Monogamy** Ulrich H. Reichard, Christophe Boesch, 2003-09-11

Why do males of some species live with a single mate when they are capable of fertilizing more than one female's eggs Why do some females pair only with one male and not with several partners Why do birds usually live in pairs and feed chicks together whilst mammals often live in larger groups with females rearing their young without male help These questions form the central theme of this book Social monogamy is a complex multi faceted phenomenon that does not always correspond with reproductive monogamy so a paired male may not necessarily be raising his own offspring Exploring the variables influencing and maintaining the fascinating diversity of social sexual and reproductive monogamous

partnerships in birds mammals and humans this book provides clues to the biological roots of monogamy for students and researchers in behavioural ecology evolutionary anthropology primatology zoology and ornithology **Behavioral Mechanisms in Ecology** Douglass H. Morse, 1980 This readable text represents a much needed synthesis of ecological insight into animal behavior The field of behavioral ecology is relatively new having evolved from a combination of classical ethology as developed by Lorenz and Tinbergen and population ecology Now for the first time a single author integrates the vast literature on animal ecology and behavior into a conceptual whole Exploring the theme of resource acquisitions Douglass H Morse combines the comparative approach to biology with models based on evolutionary theory Secondary consequences of sexual selection and other selective pressures are considered in detail Discussion of interspecific interactions and constraints is especially rich as is the treatment of foraging theory kinship theory habitat selection and predator avoidance Perhaps the book's greatest achievement however is its unparalleled ecological and evolutionary analysis of individual differences Behavioral Mechanisms in Ecology will meet the teaching and reference needs of an extremely broad audience of professional biologists **Animal Behavior** Ken Yasukawa, 2014-01-22 Discover why animals do what they do based on their genes physiologies cultures traditions survival and mating advantages and evolutionary histories and find out how studying behavior in the animal world helps us understand human behavior The three volumes of Animal Behavior How and Why Animals Do the Things They Do cover the breadth of the field addressing causation development function and evolution in a wide range of animals from invertebrates to humans Inspired by Nobel laureate Nikolaas Tinbergen's work the first two volumes follow Tinbergen's four classic questions of animal behavior while the third volume supplies integrated examples of Tinbergen's investigative process applied in specific cases Written in an engaging accessible manner ideal for college students as well as general audiences this evidence based collection provides a fascinating tour of animal behaviorists findings such as how animal communication can be truthful or deceitful the deadly serious business behind clashes in the battle of the sexes and how documentation of animal behavior can lead to a deeper understanding of human behavior Each chapter provides both historical background and information about current developments in animal behavior knowledge

The Gibbons Susan Lappan, Danielle Whittaker, 2009-06-02 It is a great honor to be asked to introduce this exciting new volume having been heavily involved in the first comprehensive synthesis in the early 1980s Gibbons are the most enthralling of primates On the one hand they are the most appealing animals with their upright posture and body shape facial markings dramatic arm swinging locomotion and suspensory postures and devastating duets on the other hand the small apes are the most diverse hence biologically valuable and informative of our closest relatives It is hard for me to believe that it is 40 years to the month since I first set foot on the Malay Peninsula to start my doctoral study of the siamang I am very proud to have followed in the footsteps of the great pioneer of primate field study Clarence Ray Carpenter CR or Ray who I was fortunate to meet twice in Pennsylvania and in Zurich first in Central America in 1967 and then in Southeast Asia It is 75 years since he

studied howler monkeys on Barro Colorado Island in the Panama Canal Zone It is 70 years since he studied the white handed gibbon in Thailand Advances in Child Development and Behavior Robert V. Kail,2002-10-24 Advances in Child Development and Behavior is intended to ease the task faced by researchers instructors and students who are confronted by the vast amount of research and theoretical discussion in child development and behavior The serial provides scholarly technical articles with critical reviews recent advances in research and fresh theoretical viewpoints Volume 30 discusses early recall memory balance and motor learning sexual selection emotion related regulation maternal sensitivity and attachment and influences of friends

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