

Genotype Environment Interactions And Sexual Selection John Hunt

Sperm Biology Tim R. Birkhead 2008-11-21 Sperm Biology represents the first analysis of the evolutionary significance of sperm phenotypes and derived sperm traits and the possible selection pressures responsible for sperm-egg coevolution. An understanding of sperm evolution is fast developing and promises to shed light on many topics from basic reproductive biology to the evolutionary process itself as well as the sperm proteome, the sperm genome and the quantitative genetics of sperm. The Editors have identified 15 topics of current interest and biological significance to cover all aspects of this bizarre, fascinating and important subject. It comprises the most comprehensive and up-to-date review of the evolution of sperm and pointers for future research, written by experts in both sperm biology and evolutionary biology. The combination of evolution and sperm is a potent mix, and this is the definitive account. The first review survey of this emerging field Written by experts from a broad array of disciplines from the physiological and biomedical to the ecological and evolutionary Sheds light on the intricacies of reproduction and the coevolution of sperm, egg and reproductive behavior

Genes and Behaviour David J. Hosken 2019-04-15 Provides a broad snapshot of recent findings showing how the environment and genes influence behavior The great debate of nature versus nurture rages on — but our understanding of the genetic basis of many behaviors has expanded over the last decade, and there is now very good evidence showing that seemingly complex behaviours can have relatively simple genetic underpinnings, but also that most behaviours have very complicated genetic and environmental architecture. Studies have also clearly shown that behaviors, and other traits, are influenced not just by genes and the environment, but also by the statistical interaction between the two. This book aims to end the nature versus nurture argument by showing that behaviors are nature and nurture and the interaction between the two, and by illustrating how single genes can explain some of the variation in behaviors even when they are seemingly complex. Genes and Behaviour: Beyond Nature-Nurture puts to rest the nature versus nurture dichotomy, providing an up-to-date synopsis of where we are, how far we've come and where we are headed. It considers the effects of a dual-inheritance of genes and culture, and genes and social environment, and highlights how indirect genetic effects can affect the evolution of behavior. It also examines the effect of non-self genes on the behavior of hosts, shines a light on the nature and nurturing of animal minds and invites us to embrace all the complexity nature and nurture generates, and more. Explores exciting new findings about behavior and where we go from here Features contributions by top scholars of the subject Seeks to end the nature versus nurture debate forever Genes and Behaviour: Beyond Nature-Nurture is a unique, and eye-opening read that will appeal to Ph.D. Students, post-doctoral fellows, and researchers in evolution and behavior. Additionally, the book will also be of interest to geneticists, sociologists and philosophers.

The SAGE Handbook of Evolutionary Psychology Todd K. Shackelford 2021-08-04 Evolutionary psychology is an important and rapidly expanding area in the life, social, and behavioral sciences, and this Handbook represents the most comprehensive and up-to-date reference text in the field today. Over three volumes, the Handbook provides a rich overview of the most important theoretical and empirical work in the field. Chapters cover a broad range of topics, including theoretical foundations, the integration of evolutionary psychology with other life, social, and behavioral sciences, as well as with the arts and the humanities, and the increasing power of evolutionary psychology to inform applied fields, including medicine, psychiatry, law, and education. Each of the volumes has been carefully curated to have a strong thematic focus, covering: - The foundations of evolutionary psychology; - The integration of evolutionary psychology with other disciplines, and; - The applications of evolutionary psychology. The SAGE Handbook of Evolutionary Psychology is an essential resource for researchers, graduate students, and advanced undergraduate students in all areas of psychology, and in related disciplines across the life, social, and behavioral sciences.

Ecology of Atlantic Salmon and Brown Trout Bror Jonsson 2011-05-03 Destruction of habitat is the major cause for loss of biodiversity including variation in life history and habitat ecology. Each species and population adapts to its environment, adaptations visible in morphology, ecology, behaviour, physiology and genetics. Here, the authors present the population ecology of Atlantic salmon and brown trout and how it is influenced by the environment in terms of growth, migration, spawning and recruitment. Salmonids appeared as freshwater fish some 50 million years ago. Atlantic salmon and brown trout evolved in the Atlantic basin, Atlantic salmon in North America and Europe, brown trout in Europe, Northern Africa and Western Asia. The species live in small streams as well as large rivers, lakes, estuaries, coastal seas and oceans, with brown trout better adapted to small streams and less well adapted to feeding in the ocean than Atlantic salmon. Smolt and adult sizes and longevity are constrained by habitat conditions of populations spawning in small streams. Feeding, wintering and spawning opportunities influence migratory versus resident lifestyles, while the growth rate influences egg size and number, age at maturity, reproductive success and longevity. Further, early experiences influence later performance. For instance, juvenile behaviour influences adult homing, competition for spawning habitat, partner finding and predator avoidance. The abundance of wild Atlantic salmon populations has declined in recent years; climate change and escaped farmed salmon are major threats. The climate influences through changes in temperature and flow, while escaped farmed salmon do so through ecological competition, interbreeding and the spreading of contagious diseases. The authors pinpoint essential problems and offer suggestions as to how they can be reduced. In this context, population enhancement, habitat restoration and management are also discussed. The text closes with a presentation of what the authors view as major scientific challenges in ecological research on these species.

Neurobiology of Chemical Communication Carla Mucignat-Caretta 2014-02-14 Intraspecific communication involves the activation of chemoreceptors and subsequent activation of different central areas that coordinate the responses of the entire organism—ranging from behavioral modification to modulation of hormones release. Animals emit intraspecific chemical signals, often referred to as pheromones, to advertise their presence to members of the same species and to regulate interactions aimed at establishing and regulating social and reproductive bonds. In the last two decades, scientists have developed a greater understanding of the neural processing of these chemical signals. Neurobiology of Chemical Communication explores the role of the chemical senses in mediating intraspecific communication. Providing an up-to-date outline of the most recent advances in the field, it presents data from laboratory and wild species, ranging from invertebrates to vertebrates, from insects to humans. The book examines the structure, anatomy, electrophysiology, and molecular biology of pheromones. It discusses how chemical signals work on different mammalian and non-mammalian species and includes chapters on insects, Drosophila, honey bees, amphibians, mice, tigers, and cattle. It also explores the controversial topic of human pheromones. An essential reference for students and researchers in the field of pheromones, this is also an ideal resource for those working on behavioral phenotyping of animal models and persons interested in the biology/ecology of wild and domestic species.

Taxonomy of Ostracods from the Pirabas Formation (Upper Oligocene to Lower Miocene), Eastern Amazonia (Pará State, Brazil) Anna Andressa Evangelista Nogueira 2019 Ostracods from the Upper Oligocene to Lower Miocene Pirabas Formation, Northeastern Amazonia, Pará State, Brazil were examined from one subsurface and four outcrop sections. A total of 119 species were recognized and are illustrated; another 53 species were left in open nomenclature. Twenty-seven of the species are common to the Neogene of Caribbean, another two species are known from areas other than the Caribbean, and one species was already described from the studied unit. This study provides a robust taxonomic database for paleoenvironmental, biostratigraphic and paleogeographic studies and contributes to the knowledge of the paleodiversity of Neogene Ostracods from the Southwestern Atlantic.

Sex, Color, and Mate Choice in Guppies Anne 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 Oxford Handbook of Human Mating David M. Buss 2023-02-03 The scientific study of human mating has mushroomed over the past three decades, and this growth in turn has generated a proliferation of evolving literature revealing fresh discoveries about mate attraction, mate choice, mate retention, marital satisfaction, jealousy, infidelity, intimate partner violence, breakups, internet dating, cyberstalking, and sexual coercion. In *The Oxford Handbook of Human Mating*, editor David M. Buss showcases contributions from the best and the brightest scientists in the field, providing up-to-date summaries of theories and empirical evidence of the science of human mating strategies. Much of the research in the field is guided by sexual selection theory. Over 150 years after Darwin's proposal of sexual selection theory, it has become the most important overarching theoretical framework for the scientific study of the mating strategies of all sexually reproducing species, including humans. A mountain of research centered around Darwin's classic book has documented the many complexities of human mate competition and mate choice; how these processes differ between the sexes; and how they differ as a function of sex ratio, mate value, social contexts, ovulation cycles, personality characteristics, and cultural norms and mating rituals. Thus, the science is now ripe for a collection of work by eminent scholars in the field. David M. Buss is a leading researcher and pioneer in the study of human mating strategies, and he applies his expertise to the curation of this volume, which includes major sections covering theories of human mating; mate selection and mate attraction; mate competition; sexual conflict in mating; human pair bonding; the endocrinology of mating; and mating in the modern world.

Reproductive Biology of Teleost Fishes Robert J. Wootton 2014-12-03 *Reproductive Biology of Teleost Fishes* is the first integrated review of the reproductive biology of the bony fishes, which are the most species-rich and diversified group of vertebrates. Teleosts display remarkable variation in their modes of reproduction, and this volume is intended to provide a framework for understanding the remarkable reproductive diversity of this group. It describes their reproductive biology using, wherever possible, phylogenetic analyses and life-history theory as a means to interpret the information. The book addresses the genetic, physiological, behavioural, ecological, evolutionary and applied aspects of teleost reproduction in a comparative framework that emphasises the adaptive basis of reproductive diversity. *Reproductive Biology of Teleost Fishes* provides a comprehensive synthesis of fish reproduction that will be of great interest to life scientists, particularly ecologists, evolutionary biologists, physiologists and advanced undergraduates, postgraduates and research workers requiring a comprehensive overview of fish reproduction. The book is suitable for courses in fish biology and ecology, reproductive physiology and reproductive genetics. It also addresses applied questions and will be of value for courses on fisheries science and aquaculture. Libraries in all universities and research establishments where biological sciences, fisheries science and aquaculture are studied and taught should have several copies of this important book on their shelves.

In the Light of Evolution National Academy of Sciences 2007 The Arthur M. Sackler Colloquia of the National Academy of Sciences address scientific topics of broad and current interest, cutting across the boundaries of traditional disciplines. Each year, four or five such colloquia are scheduled, typically two days in length and international in scope. Colloquia are organized by a member of the Academy, often with the assistance of an organizing committee, and feature presentations by leading scientists in the field and discussions with a hundred or more researchers with an interest in the topic. Colloquia presentations are recorded and posted on the National Academy of Sciences Sackler colloquia website and published on CD-ROM. These Colloquia are made possible by a generous gift from Mrs. Jill Sackler, in memory of her husband, Arthur M. Sackler.

Behavioural Responses to a Changing World Ulrika Candolin 2012-06-14 Human-induced environmental change currently represents the single greatest threat to global biodiversity. Species are typically adapted to the local environmental conditions in which they have evolved. Changes in environmental conditions initially influence behaviour, which in turn affects species interactions, population dynamics, evolutionary processes and, ultimately, biodiversity. How animals respond to changed conditions, and how this influences population viability, is an area of growing research interest. Yet, despite the vital links between environmental change, behaviour, and population dynamics, surprisingly little has been done to bridge these areas of research. *Behavioural Responses to a Changing World* is the first book of its kind devoted to understanding behavioural responses to environmental change. The volume is comprehensive in scope, discussing impacts on both the mechanisms underlying behavioural processes, as well as the longer-term ecological and evolutionary consequences. Drawing on international experts from across the globe, the book covers topics as diverse as endocrine disruption, learning, reproduction, migration, species interactions, and evolutionary rescue.

Australian Crickets (Orthoptera) Daniel Otte 2007-12 This work began with 12 months of field work in Australia between June 1968 & June 1969. During approx. 46,000 miles of travel the authors obtained data at 905 different localities, & visited all of the major Australian collections. Material in the European museums was examined on the return trip to the U.S. & many types were borrowed later. The National Insect Collection at Canberra subsequently sent their entire collection of crickets for further study & the Univ. of Queensland sent a major part of their collection. This work includes 492 species of which 376 are new. These species are arranged in 85 genera of which 41 are new. Fourteen previously published names are synonymized & 17 names are treated as *nomina dubia*. Illustrations.

Parenting Matters National Academies of Sciences, Engineering, and Medicine 2016-12-21 Decades of research have demonstrated that the parent-child dyad and the environment of the family—which includes all primary caregivers—are at the foundation of children's well-being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs and services for families, changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. *Parenting Matters* identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and practice in the United States.

Insect Behavior Alex Córdoba-Aguilar 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.

Culture Evolves Andrew Whiten 2012 Culture shapes vast swathes of our lives and has allowed the human species to dominate the planet in an evolutionarily unique way. This book is unique in focusing on the evolutionary continuities in culture, providing an interdisciplinary exploration of culture, written by leading authorities from the biological and cognitive sciences.

Strengthening Forensic Science in the United States National Research Council 2009-07-29 Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Advances in the Study of Behavior Marc Naguib 2011-05-24 Annotation The series presents the theoretical ideas and research of those engaged in the field of animal behaviour to their colleagues in the scientific community.

The Princeton Guide to Evolution David A. Baum 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

The Genetical Theory of Natural Selection R. A. Fisher 2018-11-10 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Essays in Animal Behaviour Jeffrey R Lucas 2005-11-07 Recently, the 50th anniversary of the publication of *Animal Behaviour* has passed. To mark the occasion, a group of prominent behaviourists have written essays relevant to their fields. These essays provide a glimpse of the study of behaviour looking in all directions. History and future aside, it is imperative to broadcast this information from the perspective of the behaviourists who have helped shape both the past and the future. It is important for any field to be both retrospective and prospective: where have we been, where are we going, where are we now? These essays provide a unique personal reflection on the history of animal behaviour from John Alcock, Stuart and Jeanne Altmann, Steve Arnold, Geoff Parker, and Felicity Huntingford. Six topics are reflected on and include: The History of Animal Behavioural Research, Proximate Mechanisms, Development, Adaptation, and Animal Welfare. Broad range of essays on animal behaviour Written by leaders in the field Offers a history of the study of behaviour plus essays on the future of behavioural studies Contains over 30 full color illustrations Includes essays on development, mechanisms and adaptive significance of behaviour

Niche Construction F. John Odling-Smee 2013-02-15 The seemingly innocent observation that the activities of organisms bring about changes in environments is so obvious that it seems an unlikely focus for a new line of thinking about evolution. Yet niche construction--as this process of organism-driven environmental modification is known--has hidden complexities. By transforming biotic and abiotic sources of natural selection in external environments, niche construction generates feedback in evolution on a scale hitherto underestimated--and in a manner that transforms the evolutionary dynamic. It also plays a critical role in ecology, supporting ecosystem engineering and influencing the flow of energy and nutrients through ecosystems. Despite this, niche construction has been given short shrift in theoretical biology, in part because it cannot be fully understood within the framework of standard evolutionary theory. Wedding evolution and ecology, this book extends evolutionary theory by formally including niche construction and ecological inheritance as additional evolutionary processes. The authors support their historic move with empirical data, theoretical population genetics, and conceptual models. They also describe new research methods capable of testing the theory. They demonstrate how their theory can resolve long-standing problems in ecology, particularly by advancing the sorely needed synthesis of ecology and evolution, and how it offers an evolutionary basis for the human sciences. Already hailed as a pioneering work by some of the world's most influential biologists, this is a rare, potentially field-changing contribution to the biological sciences.

Genes and Behaviour David J. Hosken 2019-02-06 Provides a broad snapshot of recent findings showing how the environment and genes influence behavior The great debate of nature versus nurture rages on — but our understanding of the genetic basis of many behaviors has expanded over the last decade, and there is now very good evidence showing that seemingly complex behaviours can have relatively simple genetic underpinnings, but also that most behaviours have very complicated genetic and environmental architecture. Studies have also clearly shown that behaviors, and other traits, are influenced not just by genes and the environment, but also by the statistical interaction between the two. This book aims to end the nature versus nurture argument by showing that behaviors are nature and nurture and the interaction between the two, and by illustrating how single genes can explain some of the variation in behaviors even when they are seemingly complex. *Genes and Behaviour: Beyond Nature-Nurture* puts to rest the nature versus nurture dichotomy, providing an up-to-date synopsis of where we are, how far we've come and where we are headed. It considers the effects of a dual-inheritance of genes and culture, and genes and social environment, and highlights how indirect genetic effects can affect the evolution of behavior. It also examines the effect of non-self genes on the behavior of hosts, shines a light on the nature and nurturing of animal minds and invites us to embrace all the complexity nature and nurture generates, and more. Explores exciting new findings about behavior and where we go from here Features contributions by top scholars of the subject Seeks to end the nature versus nurture debate forever *Genes and Behaviour: Beyond Nature-Nurture* is a unique, and eye-opening read that will appeal to Ph.D. Students, post-doctoral fellows, and researchers in evolution and behavior. Additionally, the book will also be of interest to geneticists, sociologists and philosophers.

The Ant and the Peacock Helena Cronin 1993-09-24 This book is a success story. It explains two long-running puzzles of the theory of natural selection. How can natural selection favour those, like the ant, that renounce tooth and claw in favour of the public-spirited ways of the commune? How can it explain the peacock's tail, flamboyant and a burden to its bearer; surely selection would act against useless ornamentation? Helena Cronin's enthralling account blends history, science and philosophy in a gripping tale that is scholarly, entertaining and eminently readable. The hardback edition was selected by Nature as one of the best scientific books in 1992. Also the New York Times chose it as one of their best books of 1992. The author divides her time between the Philosophy Department at the London School of Economics and the Zoology Department at Oxford.

Skin Nina G. Jablonski 2013-02-20 The rich cultural canvas of the skin is placed within its broader biological context in a complete guidebook to the pliable covering that makes humans who they are.

Bird Species Dieter Thomas Tietze 2018-11-19 The average person can name more bird species than they think, but do we really know what a bird "species" is? This open access book takes up several fascinating aspects of bird life to elucidate this basic concept in biology. From genetic and physiological basics to the phenomena of bird song and bird migration, it analyzes various interactions of birds - with their environment and other birds. Lastly, it shows imminent threats to birds in the Anthropocene, the era of global human impact. Although it seemed to be easy to define bird species, the advent of modern methods has challenged species definition and led to a multidisciplinary approach to classifying birds. One outstanding new toolbox comes with the more and more reasonably priced acquisition of whole-genome sequences that allow causative analyses of how bird species diversify. Speciation has reached a final stage when daughter species are reproductively isolated, but this stage is not easily detectable from the phenotype we observe. Culturally transmitted traits such as bird song seem to speed up speciation processes, while another behavioral trait, migration, helps birds to find food resources, and also coincides with higher chances of reaching new, inhabitable areas. In general, distribution is a major key to understanding speciation in birds. Examples of ecological speciation can be found in birds, and the constant interaction of birds with their biotic environment also contributes to evolutionary changes. In the Anthropocene, birds are confronted with rapid changes that are highly threatening for some species. Climate change forces birds to move their ranges, but may also disrupt well-established interactions between climate, vegetation, and food sources. This book brings together various disciplines involved in observing bird species come into existence, modify, and vanish. It is a rich resource for bird enthusiasts who want to understand various processes at the cutting edge of current research in more detail. At the same time it offers students the opportunity to see primarily unconnected, but booming big-data approaches such as genomics and biogeography meet in a topic of broad interest. Lastly, the book enables conservationists to better understand the uncertainties surrounding "species" as entities of protection.

Sexual Conflict Göran Arnqvist 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.

Genotype-by-Environment Interactions and Sexual Selection John Hunt 2014-09-03 Sexual selection is recognized as being responsible for some of the most extravagant morphologies and behaviors in the natural world, as well as a driver of some of the most rapid evolution. While Charles Darwin's theory is now a fundamental component of modern evolutionary biology, the impact of genotype-by-environment interactions on sexual selection has thus far received little attention. This book represents the first comprehensive analysis of the role genotype-by-environment interactions play in sexual selection and the potential implications that they have for the evolutionary process. The Editors have identified 13 topics that currently define the field and shed light on the impacts of these interactions on sexual selection. This includes key topics, such as resolving the lek paradox and how genotype-by-environmental interactions can compromise the honesty of sexual signals. The volume also outlines key questions that remain unanswered and provides a comprehensive guide to analyzing genotype-by-environment interactions. The mix of theory, empirical studies, and practical instructions from world leading experts make this book a particularly potent and definitive guide on the topic. It will be of interest to evolutionary biologists, spanning from genomicists to behaviorists. "This is a very timely book, covering a topic that should change the way we think about sexual selection. The contributors are all leaders and the topics should provide guidance to many PhD projects in the years to come. GEI is increasingly shown to be important, and it seems likely that it is critical in species where sexual selection is operating. This book is likely to help revitalize the study of sexual selection." Professor Allen Moore, The University of Georgia "GEIs fascinate evolutionary biologists, but the unique consequences for sexually selected traits have been neglected - until now. This multi-authored book comprehensively explains key theoretical concepts, handles practical 'how to' issues and uses classic case studies to illustrate the value of studying GEIs. It is a must read for everyone interested in sexual selection." Professor Michael Jennions, The Australian National University

The Evolution of Insect Mating Systems David M. Shuker 2014 Updated version of: The evolution of insect mating systems / Randy Thornhill and John Alcock. Cambridge, Massachusetts: Harvard University Press, 1983. (Preface).

Human Evolution Beyond Biology and Culture Jeroen C. J. M. van den Bergh 2018-10-18 A complete account of evolutionary thought in the social, environmental and policy sciences, creating bridges with biology.

Gene-Environment Interactions Lucio G. Costa 2005-12-16 Understanding the play between heredity and environment, and relating it to disease causation, is the task of ecogenetics. *Gene-Environment Interactions: Fundamentals of Ecogenetics* presents the first comprehensive survey of this discipline, reflecting its relationship with toxicology, epidemiology, pharmacology, public health, and other medical and biological fields. Divided into four sections, the text elucidates key basic and advanced topics: * Section 1 covers fundamentals, including the history of the discipline, a discussion of the molecular laboratory tools currently available to assess genotypes, using such measurements in molecular epidemiology studies, and the statistical issues involved in their analysis. * Section 2 focuses on a number of key genetic polymorphisms relevant for ecogenetics, including enzymes of phase I and phase II metabolism, enzymes involved in DNA repair, as well as receptors and ion channels. This highlights characteristics of selected, widely studied genotypic/phenotypic differences, and allows discussion of how given genetic variations can influence responses to exogenous chemicals. * Section 3 examines gene-environment interactions through a disease-based approach, addressing how genetic polymorphisms can influence susceptibility to various diseases. Chapters cover important disease conditions such as various types of cancer, neurodegenerative diseases, cardiovascular disease, chronic pulmonary diseases, infectious diseases, diabetes, and obesity. * The final section discusses the ethical, legal, and social issues that arise when investigating and evaluating genetic polymorphisms in human populations, as well as the impact of ecogenetics on risk assessment, regulatory policies, and medicine and public health. Packed with clear examples illustrating concepts, as well as numerous tables and figures, *Gene-Environment Interactions: Fundamentals of Ecogenetics* is a unique resource for a wide range of physicians, students, and other specialists.

Sperm Competition and Sexual Selection Tim R. Birkhead 1998-08-12 *Sperm Competition and Sexual Selection* presents the intricate ways in which sperm compete to fertilize eggs and how this has prompted reinterpretations of breeding behavior. This book provides a theoretical framework for the study of sperm competition, which is a central part of sexual selection. It also discusses the roles of females and the

relationships between paternal care in sperm competition. The chapters focusing on taxonomic development are diverse and cover all the major animal groups, both vertebrate and invertebrate, and plants. The final chapter provides an overview discussing the relationship between sperm competition and sexual selection in terms of both function and mechanism and how these translate into species fitness. This book will be of prime interest to behaviorists, ecologists and evolutionary biologists, suggesting new avenues of research and new ways of approaching old problems. The only up-to-date summary of a central and popular subject Well known editors and authors Provides a theoretical framework for the study of sperm competition Covers all major animal groups Includes a chapter on plants

The Evolution of Social Behaviour Michael Taborsky 2021-08-26 First book to outline the fundamental principles of social evolution underlying the stunning diversity of social systems and behaviours.

The Evolution of Sex John Maynard Smith 1978-08-24 The question of why organisms reproduce sexually is still a matter of controversy. In this account, Professor Maynard Smith considers the selective forces responsible for the origin and evolution of sexual reproduction and genetic recombination, using quantitative population genetics arguments to support his ideas. The relative importance of individual and group selection processes are also considered. The aim is to give a clear statement of the theoretical issues, and present enough of the evidence to show what kinds of facts are relevant. It is hoped that where crucial evidence is missing, experimentalists and field workers may be encouraged to collect the relevant data. The author does not claim to solve all the problems he raises, but this clear and well-argued account should provide stimulating reading for advanced undergraduate students and research workers in evolutionary theory.

Current Perspectives on Sexual Selection Thierry Hoquet 2015-01-28 This root-and-branch re-evaluation of Darwin's concept of sexual selection tackles the subject from historical, epistemological and theoretical perspectives. Contributions from a wealth of disciplines have been marshaled for this volume, with key figures in behavioural ecology, philosophy, and the history of science adding to its wide-ranging relevance. Updating the reader on the debate currently live in behavioural ecology itself on the centrality of sexual selection, and with coverage of developments in the field of animal aesthetics, the book details the current state of play, while other chapters trace the history of sexual selection from Darwin to today and inquire into the neurobiological bases for partner choices and the comparisons between the hedonic brain in human and non-human animals. Welcome space is given to the social aspects of sexual selection, particularly where Darwin drew distinctions between eager males and coy females and rationalized this as evolutionary strategy. Also explored are the current definition of sexual selection (as opposed to natural selection) and its importance in today's biological research, and the impending critique of the theory from the nascent field of animal aesthetics. As a comprehensive assessment of the current health, or otherwise, of Darwin's theory, 140 years after the publication of his *Descent of Man*, the book offers a uniquely rounded view that asks whether 'sexual selection' is in itself a progressive or reactionary notion, even as it explores its theoretical relevance in the technical biological study of the twenty-first century.

The Evolution of Parental Care Nick J. Royle 2012-08-09 Parental care includes a wide variety of traits that enhance offspring development and survival. This novel book provides a fresh perspective on the current state of the study of the evolution of parental care, written by some of the top researchers in the field, and taking a broad taxonomic approach.

The Adaptive Landscape in Evolutionary Biology Erik Svensson 2012-05-17 The 'Adaptive Landscape' has been a central concept in population genetics and evolutionary biology since this powerful metaphor was first formulated in 1932. This volume brings together historians of science, philosophers, ecologists, and evolutionary biologists, to discuss the state of the art from several different perspectives.

Democracy and Education John Dewey 2013-05-31 This antiquarian volume contains a comprehensive treatise on democracy and education, being an introduction to the 'philosophy of education'. Written in clear, concise language and full of interesting expositions and thought-provoking assertions, this volume will appeal to those with an interest in the role of education in society, and it would make for a great addition to collections of allied literature. The chapters of this book include: 'Education as a Necessity of Life'; 'Education as a Social Function'; 'Education as Direction'; 'Education as Growth'; 'Preparation, Unfolding, and Formal Discipline'; 'Education as Conservative and Progressive'; 'The Democratic Conception in Education'; 'Aims in Education', etcetera. We are republishing this vintage book now complete with a new prefatory biography of the author.

How Tobacco Smoke Causes Disease 2010 This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

Proceedings 2009

The Mating Mind Geoffrey Miller 2001 Miller shows how our brains are the products of sexual selection, not natural selection, and how this alters and illuminates our understanding of intelligence, art, language, mortality, sex and the differences between men and women.

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