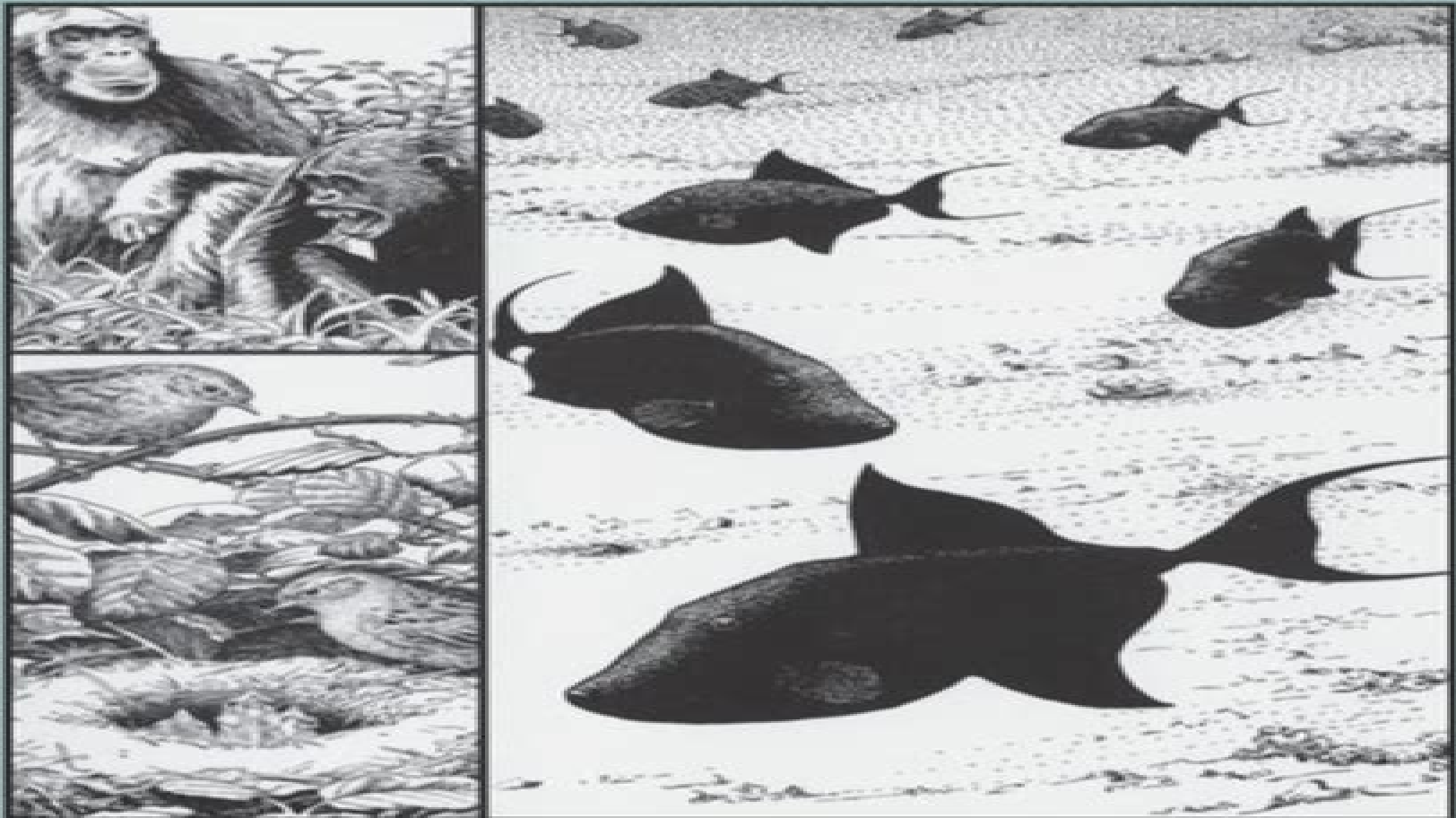


The Evolution of Parental Care

T. H. CLUTTON-BROCK



MONOGRAPHS IN BEHAVIOR AND ECOLOGY

Evolution Of Parental Care

Emilie Sanchez



Evolution Of Parental Care:

The Evolution of Parental Care T. H. Clutton-Brock, 1991-03-21 The book reviews theoretical and empirical predictions concerning the evolution of parental care and examines the extent to which these are supported by empirical evidence

The Evolution of Parental Care Nick J. Royle, Per T. Smiseth, Mathias Kölliker, 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 Evolution of Parental Care Nick J. Royle, Per T. Smiseth, Mathias Kölliker, 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

Evolution of Parental Care Pearle Christine Huckins, 1932 **Parental Care: Evolution, Mechanisms, And Adaptive Significance**, 1996-11-18 *Advances in the Study of Behavior* presents its first thematic volume focusing on the physiological and behavioral mechanisms underlying parental care The book discusses parental care both within and across taxa with coverage of invertebrates and early vertebrates fishes amphibians reptiles mammals birds and nonhuman primates A running theme throughout the chapters shows that parental care is anchored to the ecology reproductive physiology and embryonic development of a species Coverage also includes mechanisms of parental care including analysis of the stimuli that parents respond to and how parental care is initiated maintained and terminated Individual differences within species are also explored examining stable differences in maternal style how they arise and the consequences for both mother and infant

The Evolution of Parental Care in Archosaurs Rebecca Lakin, 2022 **The evolution of parental care** Nick J. Royle, Per T. Smiseth, Mathias Kölliker, 2012 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

Life History Evolution Michal Segoli, Eric Wajnberg, 2025-03-10 Provides a timely and authoritative account of Life History Evolution by a multidisciplinary team of scholars and researchers from around the world Life History Evolution Traits Interactions and Applications presents a cutting edge synthesis of the mechanisms driving life history strategies that span the breadth of taxa from bacteria to humans Integrating classical and contemporary perspectives this comprehensive volume addresses how organisms evolve traits in response to diverse ecological pressures Editors Michal Segoli and Eric Wajnberg bring together leading experts to explore the intersection of evolutionary biology ecology and applied research focusing on the evolving complexity of life history traits and their implications In depth yet accessible chapters cover a broad spectrum of life history traits from classical traits of lifespan and reproduction to more complex interactions like social behaviour predator prey dynamics and human induced evolutionary processes The contributing authors explain essential concepts identify critical knowledge gaps discuss future research directions and demonstrate the relevance of life history evolution in addressing climate change species invasion pollution and more Providing a well balanced understanding of life history traits and their implications Life History Evolution Incorporates recent advances in evolutionary theory including eco evolutionary feedback loops and anthropogenic impacts Offers diverse perspectives and original research from leading experts in fields such as evolutionary biology ecology entomology zoology agriculture and veterinary medicine Discusses life history evolution in the context of co evolved interactions such as predator prey parasite host plant herbivore and endosymbiont host relationships Provides an overview of the foundational theory recent developments and current thinking in the field Features numerous case studies that highlight real world applications in biological control wildlife management climate change adaptation and others Revealing how life history traits shape the evolutionary strategies of organisms Life History Evolution Traits Interactions and Applications is an essential resource for undergraduate and graduate students researchers industry professionals and policymakers in ecological science It is an ideal textbook for courses in evolutionary ecology evolutionary biology conservation biology environmental science and environmental management

Advances in the Study of Behavior Daniel S. Lehrman, 1996 *TEXTBOOK OF ANIMAL BEHAVIOUR, FOURTH EDITION* MANDAL, FATIK BARAN, 2025-02-01 This well accepted book now in its Fourth Edition is a need based extension of the previous book The text is further enriched with more information to understand animal behaviour coherently and scientifically In the new edition the book introduces its readers with the recent topics such as eusociality social learning imitation ritualization mating sexual cannibalism gravireception and magnetoreception The book attempts to provide a reasonably suitable account of animal behaviour for undergraduate and postgraduate students Although the behaviour of animals has fascinated people for a long time behavioural biology has been introduced into syllabi

very recently The study of behaviour received its important boost from the work of Charles Darwin who used the term instinct to refer to the natural behaviour of animals In the 1930s a comprehensive theory of animal behaviour emerged through the work of Konrad Lorenz and later by Niko Tinbergen Biological study of behaviour in fact came of age as a science when Lorenz Tinbergen and Karl von Frisch received the Nobel Prize for their contribution to science Observing and describing exactly what animals do is fascinating and scientific analysis of their behaviour is significant for several reasons Each species tends to have an array of stereotyped behaviours some of which are shared with related species but others are unique Ecology natural selection macroevolution microevolution and genes constitute the foundation of animal behaviour Various animal groups exhibit diverse strategies for survival and reproduction which are discussed in this book

KEY FEATURES Presents a well balanced view of ethology Discusses current developments challenges and prospects in the field Includes a glossary of important terms Offers chapter end questions to check students understanding of the concept

TARGET AUDIENCE B Sc Biology M Sc Zoology Life Sciences Sociology and Anthropology

Sexual Selection Regina H. Macedo, Glauco Machado, 2013-09-25 Sexual Selection Perspectives and Models from the Neotropics presents new sexual selection research based upon neotropical species As neotropical regions are destroyed at an alarming rate with an estimated 140 species of rainforest plants and animals going extinct every day it is important to bring neotropical research to the fore now Sexual selection occurs when the male or female of a species is attracted by certain characteristics such as form color or behavior When those features lead to a greater probability of successful mating they become more prominent in the species Although most theoretical concepts concerning sexual selection and reproductive strategies are based upon North American and European fauna the Neotropical region encompasses much more biodiversity with as many as 15 000 plant and animal species in a single acre of rain forest This book illustrates concepts in sexual selection through themes ranging from female cryptic choice in insects sexual conflict in fish interaction between sexual selection and the immune system nuptial gifts visual and acoustic sexual signaling parental investment to alternative mating strategies among others These approaches distinguish Sexual Selection from current publications in sexual selection mainly because of the latitudinal and taxonomic focus so that readers will be introduced to systems mostly unknown outside the tropics several of which bring into question some well established patterns for temperate regions Synthesizes sexual selection research on species from the Neotropics Combines different perspectives and levels of analysis using a broad taxonomic basis introducing readers to systems mostly unknown outside the tropics and bringing into question well established patterns for temperate regions Includes contributions exploring concepts and theory as well as discussions on a variety of Neotropical vertebrates and invertebrates such as insects fish arthropods and birds

TEXTBOOK OF ANIMAL BEHAVIOUR FATIK BARAN MANDAL, 2012-01-17 This well accepted book now stands in its second edition is a time honoured revision and extension of the previous edition Beginning with an introduction to the study of animal behaviour the book explains the various aspects of

behavioural biology incorporating a wealth of information from molecular biology neurobiology and socio biology with a new approach It describes different kinds of innate and learned behaviours animal communications defensive behaviours such as camouflage and mimicry with suitable illustrations The book incorporates the introductory concepts of biomimicry in an attractive manner Further it discusses biorhythms migration in fish and birds in addition to evolution and physiological basis of migration The text also presents the important aspects of socio biology and social behaviours such as feeding adaptation prey defence territoriality aggression altruism sexuality and parental care Finally it provides discussions on behavioural ecology in the context of conservation biology and human behaviour The book presents the basic principles of animal behaviour with the aid of carefully selected examples from both the recent and classic literature along with an emphasis on readability In the present edition topics like eusociality and behavioural theories have been incorporated This edition also includes as many as 11 published articles by the author on different topics related to the subject matter in box format to further strengthen the text The book is primarily intended for the students of B Sc M Sc Zoology Life Science for their courses It would be useful for the researchers in the field of animal behaviour and conservation biologists It would also attract readership studying Sociology and Anthropology

KEY FEATURES Presents a well balanced view of ethology Discusses the current development in the field Includes a glossary of important terms Offers end of chapter questions to check the students understanding of the concepts

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 **Reproductive Biology and Phylogeny of Birds, Part B: Sexual Selection, Behavior, Conservation, Embryology and Genetics** Barrie G M Jamieson, 2007-01-02 The second part of volume 6 discusses sexual selection of ultraviolet and structural signals melanins and carotenoids as feather colorants and signals sexual selection and auditory signaling odors and chemical signaling sexual dimorphism sexual selection signal selection and the handicap principle courtship and copulation sexual conflict an

Reproductive Strategies in Insects Omkar, Geetanjali Mishra, 2022-02-15 Reproduction is one of the most inherent tasks that all living organisms are actively involved in It forms the backbone of their existence with all evolutionary energies directed over billion years of creation into maximizing reproductive effort For so simple and directed a need such as maximizing reproduction it is interesting to see how much diversity and complexity exists in this task Each organism despite having the same end goal employs different strategies The complexities intricacies and strategies of successful reproduction while being extremely fascinating are equally befuddling *Reproductive Strategies in Insects* provides an expansive critical look at the reproductive strategies of the most diverse group of animals the insects Insects which inhabit myriad niches in all ecosystems except the oceans show the most diverse reproductive strategies ranging from simplest to most complex Reproductive strategies viz search for mates number of mates display of mate quality assessment of mate quality acceptance of mate rejection of mates forced copulations the fight for paternity pre during and post copula the modulation of paternity ovipositional strategies and parental care are described in detail in this book Also each strategy is analyzed in relation to its morphological physiological ethological ecological and evolutionary aspects Features Covers a wide variety of reproductive strategies A detailed step by step description of reproductive strategies Discusses morphological physiological ethological ecological and evolutionary aspects Modulation of these strategies and responsible modulatory factors are also discussed Well illustrated Recent research results and probable future research directions This is a niche reference book for ethologists biologists studying behavioural evolution and entomologists It may also be used as a textbook for a graduate level course in behaviour *Cooperation and Coordination in the Family* James L. Savage, Camilla A. Hinde, Rufus A. Johnstone, 2021-04-23

Advances in the Study of Behavior, 2017-04-06 *Advances in the Study of Behavior* Volume 49 provides users with the latest insights in this ever evolving field Users will find new information on a variety of species including social behaviors in reptiles the behavioral evidence of felt emotions a section on developmental plasticity a chapter on covetable corpses and plastic beetles and the socioecological behavior of burying beetles and a section on the mechanisms of communication and cognition in chickadees This volume makes another important contribution to the development of the field by presenting theoretical ideas and research findings to professionals studying animal behavior and related fields Researchers in a variety

of behavioral fields will find this longstanding series initiated over 40 years ago to be a go to resource for the study of animal behavior Initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presents theoretical ideas and research to those studying animal behavior and related fields Fish Defenses Vol. 2 Giacomo Zaccone, 2019-06-21 Dramatic changes in the environment including habitat degradation and climate change have focused attention on how individuals and populations respond to a shifting biotic and abiotic landscape A critical step toward meeting this goal is a clear understanding of the capacity of individuals to defend themselves against threats Changes in water q *The Development and Fitness Consequences of Sex Roles* Ákos Pogány, E. Tobias Krause, Veronika Bókony, Olivia Roth, 2022-04-27

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