

Dunnoek Behaviour and Social Evolution

N. B. Davies



Illustrated by David Quinn

Dunnock Behaviour And Social Evolution

Yoshiaki Itō



Dunnock Behaviour And Social Evolution:

Dunnock Behaviour and Social Evolution Nicholas B. Davies, 1992 At first sight just a small brown bird the dunnock's unobtrusive appearance belies its extraordinary behaviour and mating patterns In this book Nick Davies gives a full account of the mating systems of the dunnock or hedge sparrow *Prunella modularis* which include pairs a male with two females two males with one female and several males with several females Detailed observations elegant field experiments and DNA fingerprinting are combined to show how this variable social organization from selfish individuals competing to maximize their own reproductive success Further experiments reveal how the cuckoo may thwart the dunnock's parental efforts David Quinn's exquisite drawings provide a visual summary of the birds behaviour All students of ecology evolution and animal behaviour will want to be familiar with this work which addresses the wider issues of the influence of ecology on mating systems and the evolutionary significance of conflict within and between species This is the third volume in the Oxford Series in Ecology and Evolution and the first in this series to tackle behavioural ecology Nick Davies is a Lecturer in Zoology at the University of Cambridge and co editor with J R Krebs of the leading text in the field Behavioural ecology an evolutionary approach

Dunnock Behavior and Social Evolution Nicholas B. Davies, 2023 At first sight just a small brown bird the dunnock's unobtrusive appearance belies its extraordinary behaviour and mating patterns In this book Nick Davies gives a full account of the mating systems of the dunnock or hedge sparrow *Prunella modularis* which include pairs a male with two females two males with one female and several males with several females Detailed observations elegant field experiments and DNA fingerprinting are combined to show how this variable social organization from selfish individuals competing to maximize their own reproductive success Further experiments reveal how the cuckoo may thwart the dunnock's parental efforts David Quinn's exquisite drawings provide a visual summary of the birds behaviour

Behaviour and Social Evolution of Wasps Yoshiaki Itô, 1993 In this book Ito presents data on tropical wasps which suggest that kin selection has been overemphasized as an evolutionary explanation of sociality He concentrates on the Vespidae paper wasps and hornets a group much discussed by evolutionary biologists because it exhibits all stages of social evolution subsociality primitive eusociality and advanced eusociality The author reports field observations by himself and others in Central America Asia and Australia showing that multiple egg layers in a nest are not uncommon Because coexistence of many queens leads to lower relatedness among colony members than in single queen colonies he suggests that kin selection may not be the most powerful force determining observed social patterns Instead subsocial wasps may first have aggregated for defence purposes in habitats with a high risk of predation with mutualistic associations among many queens Through parental manipulation and then kin selection differentiation into within generation castes may have followed Of interest to all students of ecology evolution and behaviour this book beautifully illustrates the ability to combine wide ranging data with thoughtful questions the author's trademark

Behaviour and Evolution Peter James Bramwell Slater, Tim Halliday, 1994-09-15 Some of the

most exciting recent advances in animal behaviour have occurred at the interface between that subject and the study of evolution This book written by experts in this area illustrates how the profound changes in our understanding of evolution have influenced behavioural research Its chapters span both studies of how behaviour itself has evolved dealing with topics such as comparative studies the genetics of behaviour speciation and the evolution of sociality and of intelligence and also the adaptiveness which this evolution has brought about with treatment of mating and fighting strategies and theories of kinship and altruism Behaviour and Evolution will be invaluable to senior undergraduate and graduate students of biology and psychology especially those studying animal behaviour behavioural ecology sociobiology evolution ecology and environmental biology **The Evolution of Mammalian Sociality in an Ecological Perspective** Clara B.

Jones,2014-01-21 This brief discusses factors associated with group formation group maintenance group population structure and other events and processes e g physiology behavior related to mammalian social evolution Within and between lineages features of prehistoric and extant social mammals patterns and linkages are discussed as components of a possible social tool kit Top down predators to nutrients as well as bottom up nutrients to predators effects are assessed The present synthesis also emphasizes outcomes of Hebbian synaptic decisions on Malthusian parameters growth rates of populations and their consequences for shifting mean fitnesses of populations Ecology and evolution EcoEvo are connected via the organism s norms of reaction genotype x environment interactions life history tradeoffs of reproduction survival and growth exposed to selection with the success of genotypes influenced by intensities of selection as well as neutral e g mutation rates and stochastic effects At every turn life history trajectories are assumed to arise from decisions made by types responding to competition for limiting resources constrained by Hamilton s rule inclusive fitness operations **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 **Parasites and the Behavior of Animals** Janice Moore,2002-01-31 When a parasite invades an ant does the ant behave like other ants Maybe not and if it doesn t who if anyone benefits from the altered behaviors The parasite The ant

Parasites and the Behavior of Animals shows that parasite induced behavioral alterations are more common than we might realize and it places these alterations in an evolutionary and ecological context Emphasizing eukaryotic parasites the book

examines the adaptive nature of behavioral changes associated with parasitism exploring the effects of these changes on parasite transmission parasite avoidance and the fitness of both host and parasite The behavioral changes and their effects are not always straightforward To the extent that virulence for instance is linked to parasite transmission the evolutionary interests of parasite and host will diverge and the current winner of the contest to maximize reproductive rates may not be clear or for that matter inevitable Nonetheless by affecting susceptibility host parasite lifespan and fecundity and transmission itself host behavior influences parameters that are basic to our comprehension of how parasites invade host populations and fundamentally how parasites evolve Such an understanding is important for a wide range of scientists from ecologists and parasitologists to evolutionary conservation and behavioral biologists The behavioral alterations that parasites induce can subtly and profoundly affect the distribution and abundance of animals

Essential Animal Behavior Graham Scott, 2009-02-05 *Essential Animal Behavior* provides a comprehensive introduction to all areas of the subject from the genetic and neurobiological control of behavior to the learning development and function of behavior in an evolutionary context Social behaviour is also covered throughout the text Written in a concise and engaging style this new book includes examples from both marine and terrestrial environments around the world places current research alongside classic examples and puts the study of animal behavior in an applied context emphasizing the implications for animal welfare and animal conservation Carefully designed to meet the needs of students coming to the subject for the first time the book includes the following features key concept boxes Focus on boxes chapter summaries guided reading to aid revision and further study case studies and boxed examples that reinforce essential points and questions for discussion This book is essential reading for degree level students following modular programs in biology zoology marine biology and psychology An Instructor manual CD ROM for this title is available Please contact our Higher Education team at ahref@mailto@HigherEducation.wiley.com Higher Education wiley.com for more information

The Evolution of the Meaning of Sexual Intercourse in the Human Giuseppe Benagiano, Gian Carlo Di Renzo, Ermelando V. Cosmi, 1996

Mammal Societies Tim

Clutton-Brock, 2016-04-20 The book aims to integrate our understanding of mammalian societies into a novel synthesis that is relevant to behavioural ecologists ecologists and anthropologists It adopts a coherent structure that deals initially with the characteristics and strategies of females before covering those of males cooperative societies and hominid societies It reviews our current understanding both of the structure of societies and of the strategies of individuals it combines coverage of relevant areas of theory with coverage of interspecific comparisons intraspecific comparisons and experiments it explores both evolutionary causes of different traits and their ecological consequences and it integrates research on different groups of mammals with research on primates and humans and attempts to put research on human societies into a broader perspective

The Social System of the Saddle-back Tamarin (*Saguinus fuscicollis*) Jan Mendelson, 1994

Principles of Animal Behavior Lee Alan Dugatkin, 2009 The most balanced comprehensive and current animal behavior

text available

Evolution of Social Insect Colonies Rossiter Henry Crozier, Pekka Pamilo, 1996 This book is about the genetics and behaviour of individuals within colonies of social insects bees wasps ants and termites Colonial living is characterized by division of labour and finely coordinated organization by reproductive function being limited to certain individuals by cooperative brood care and by the presence of non reproductive workers Within a colony however many events are the result of conflicts between individuals seeking to maximize their own interests Ever since Darwin this interplay of cooperation and conflict has raised many important questions in evolutionary biology especially about how cooperative behaviour is maintained in the absence of direct reproduction by workers How is the heritable component of this behaviour passed on Crozier and Pamilo's contribution is to analyse the genetic basis of the patterns of reproduction and resource allocation found in social insect colonies This is done more comprehensively and with greater depth and insight than in any previous study and is a significant step forward in the fields of population genetics and social evolution

The Evolution of Sibling Rivalry Douglas W. Mock, Geoffrey A. Parker, 1997 One of the main tenets of evolutionary biology is that organisms behave so as to maximize the number of their genes that will be passed on to future generations Parents often produce more offspring than they can rear in case special opportunities or calamities occur This frequently leads to deprivations and even death of some offspring This book is about the evolutionary diversity importance and consequences of such squeezes The authors experts in their field review the theory field experiments and natural history of sibling rivalry across a broad sweep of organisms in a clear and accessible style that should appeal to both academics and natural historians

The Comparative Method in Evolutionary Biology Paul H. Harvey, Mark D. Pagel, 1991 From Darwin onward it has been second nature for evolutionary biologists to think comparatively because comparisons establish the generality of evolutionary phenomena Do large genomes slow down development What lifestyles select for large brains Are extinction rates related to body size These are all questions for the comparative method and this book is about how such questions can be answered The first chapter elaborates on suitable questions for the comparative approach and shows how it complements other approaches to problem solving in evolution The second chapter identifies the biological causes of similarity among closely related species for almost any observed character The third chapter discusses methods for reconstructing phylogenetic trees and ancestral character states The fourth chapter sets out to develop statistical tests that will determine whether different characters that exist in discrete states show evidence for correlated evolution Chapter 5 turns to comparative analyses of continuously varying characters Chapter 6 looks at allometry to exemplify the themes and methods discussed earlier while the last chapter looks to future development of the comparative approach in both molecular and organismic biology

[The American Naturalist](#), 2006

Asymmetry, Developmental Stability, and Evolution Anders Pape Møller, John P. Swaddle, 1997 Why does nature love symmetry In this up to date review of symmetry and its evolutionary implications Anders Møller and John Swaddle argue that symmetry is related to genetic stability and fitness and that symmetric individuals appear to have quantifiable and

significant advantages over their asymmetric counterparts. In contrast, asymmetry, a common measure of developmental instability, is the result of environmental or genetic disruptions of developmental processes such as pollutants, competition, parasitism, inbreeding, genetic mutation, and hybridization. Møller and Swaddle maintain that deviations from morphological symmetry are important factors in social or sexual situations; animals may be able to use symmetry as an honest indication of quality when assessing potential mates or competitors. This comprehensive review of the literature on developmental stability will be important reading for students and researchers in the fields of ecology, evolutionary biology, genetics, and animal behavior.

Biological Aspects of Behaviour Daniel Porter Kimble, Andrew M. Colman, 1995. *Biological Aspects of Behaviour* focuses on those areas of psychology which overlap with the biological sciences. This concise text covers topics such as the main research methods and findings of both human and animal behaviour, genetics, evolutionary aspects of human and animal behaviour, hereditary aspects of human intelligence and mental disorders, the structure and functions of the major anatomical units of the nervous system and the brain, the behavioural and physiological properties of sleep and dreaming, and psychological features of dreams, the classification of psychoactive drugs, and the way drugs affect mood and states of consciousness, and are used to treat behavioural disorders.

A Birders' Guide to the Behaviour of European and North American Birds Gábor Michl, 2003. A summary of field studies, this volume aims to fill the gap between the level of knowledge of professional ornithologists and serious birders. It describes the origin and functions of plumage colouration, as well as the social role of bird song and various calls.

Zoo Animals Geoff Hosey, Vicky Melfi, Sheila Pankhurst, 2009-01-08. *Zoo Animals Behaviour Management and Welfare* addresses the key questions surrounding the keeping of zoo animals and reveals how we can apply our ever-growing understanding of animal behaviour to ensure zoo animals are managed as effectively as possible without their health and welfare being compromised.

Dunnock Behaviour And Social Evolution Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Dunnock Behaviour And Social Evolution**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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making the film a financial success the film was positively welcomed from audience and fans alike d

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