

ROBIN DUNBAR

Reproductive Decisions

*An Economic Analysis of Gelada Baboon
Social Strategies*



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Reproductive Decisions An Economic Analysis Of Gelada Baboon Social Strategies

Robin Ian MacDonald Dunbar



Reproductive Decisions An Economic Analysis Of Gelada Baboon Social Strategies:

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Reproduction and Fitness in Baboons: Behavioral, Ecological, and Life History Perspectives Larissa Swedell, Steven R. Leigh, 2006-11-25 The editors will address the questions of life history and reproduction by attempting to isolate the various components of reproductive success and fitness in baboons This requires assembling research interests in morphology behavior ecology and endocrinology of the five subspecies of *Papio* baboons By synthesizing studies of reproduction life history growth parenting ecology mate choice and mating success this volume will shed light on general features of life history traits and reproductive strategies that have made baboons successful These findings have broad applications to understanding the evolution of complex life history adaptations such as those characteristic of other primates and humans in particular Many of the top researchers on the field are contributing to this volume Kinship and Behavior in Primates Bernard Chapais, Carol M. Berman, 2004-03-04 This book presents a series of review chapters on the various aspects of primate kinship and behavior as a fundamental reference for students and professionals interested in primate behavior ecology and evolution The relatively new molecular data allow one to assess directly degrees of genetic relatedness and

kinship relations between individuals and a considerable body of data on intergroup variation based on experimental studies in both free ranging and captive groups has accumulated allowing a rather full and satisfying reconsideration of this whole broad area of research The book should be of considerable interest to students of social evolution and behavioral ecology

Fertility and Resources Society for the Study of Human Biology. Symposium,1990-10-25 Fertility in animals reflects access to scarce resources such as food and territory In humans the situation is more complex In this book the gap between socio ecology and population demography is bridged by showing how animals and humans adjust their fertility to environmental conditions

Infanticide by Males and Its Implications Carel van Schaik,Charles H. Janson,2000-11-02 Analysis of impact of infanticide on social organization and reproductive behavior in primates including humans *Primate Social Systems* Robin Ian MacDonald Dunbar,2013-03-09 This book grew from small beginnings as I began to find unexpected patterns emerging from the data in the literature The more I thought about the way in which primate social systems worked the more interesting things turned out to be I am conscious that at times this has introduced a certain amount of complexity into the text I make no apologies for that what we are dealing with is a complex subject the product of evolutionary forces interacting with very sophisticated minds None the less I have done my best to explain every thing as clearly as I can in order to make the book accessible to as wide an audience as possible I have laid a heavy emphasis in this book on the use of simple graphical and mathematical models Their sophistication however is not great and does not assume more than a knowledge of elementary probability theory Since their role will inevitably be misunderstood I take this opportunity to stress that their function is essentially heuristic rather than explanatory they are designed to focus our attention on the key issues so as to point out the directions for further research A model is only as good as the questions it prompts us to ask For those whose natural inclination is to dismiss modelling out of hand I can only point to the precision that their use can offer us in terms of hypothesis testing

Parasites in Social Insects Paul Schmid-Hempel,2019-12-31 This book analyzes for the first time how parasites shape the biology of social insects the ants wasps bees and termites Paul Schmid Hempel provides an overview of the existing knowledge of parasites in social insects Current ideas are evaluated using a broad database and the role of parasites for the evolution and maintenance of the social organization and biology of insects is carefully scrutinized In addition the author develops new insights especially in his examination of the intricate relationships between parasites and their social hosts through the rigorous use of evolutionary and ecological concepts Schmid Hempel identifies gaps in our knowledge about parasites in social insects and uses models to develop new questions for future research In addition issues that are usually considered separately such as division of labor genetics immunology and epidemiology are placed in a common framework to analyze two of the most successful adaptations of life parasitism and sociality This work will appeal not only to practitioners in the fields of behavioral ecology and sociobiology but also to others interested in host parasite relationships or in social organisms such as apiculturists struggling to overcome the problems

arising from mite infestations of honeybee colonies *Foundations of Social Evolution* Steven A. Frank, 2019-12-31 This is a masterly theoretical treatment of one of the central problems in evolutionary biology the evolution of social cooperation and conflict Steven Frank tackles the problem with a highly original combination of approaches game theory classical models of natural selection quantitative genetics and kin selection He unites these with the best of economic thought a clear theory of model formation and comparative statics the development of simple methods for analyzing complex problems and notions of information and rationality Using this unique multidisciplinary approach Frank makes major advances in understanding the foundations of social evolution Frank begins by developing the three measures of value used in biology marginal value reproductive value and kin selection He then combines these measures into a coherent framework providing the first unified analysis of social evolution in its full ecological and demographic context Frank also extends the theory of kin selection by showing that relatedness has two distinct meanings The first is a measure of information about social partners with close affinity to theories of correlated equilibrium and Bayesian rationality in economic game theory The second is a measure of the fidelity by which characters are transmitted to future generations an extended notion of heritability Throughout Frank illustrates his methods with many examples including a complete reformulation of the theory of sex allocation The book also provides a unique how to guide for constructing models of social behavior It is essential reading for evolutionary biologists and for economists mathematicians and others interested in natural selection **Ecological Aspects of Social Evolution**

Daniel I. Rubenstein, Richard W. Wrangham, 2014-07-14 Seeking common principles of social evolution in different taxonomic groups the contributors to this volume discuss eighteen groups of birds and mammals for which long term field studies have been carried out They examine how social organization is shaped by the interaction between proximate ecological pressures and culture the social traditions already in place and shaped by local and phylogenetic history Originally published in 1987 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 **School-age Pregnancy and Parenthood** Beatrix A. Hamburg, 2017-07-28

This important work examines in detail and depth how as a consequence of changing technologies diet patterns of reproduction and work relations between children and parents have altered The editors and contributors hold that biosocial science is particularly relevant to research on human family systems and parenting behavior The family is the universal social institution in which the care of children is based and the turf where cultural tradition beliefs and values are transmitted to the young as they fulfill their biological potential for growth development and reproduction The biosocial perspective takes into account the biological substratum and the social environment as critical co determinants of behavior and pinpoints areas

in which contemporary human parental behavior exhibits continuities with and departures from patterns evident throughout history This work crosses disciplinary lines without ignoring their relevance to the broader themes of the book School age pregnancy and parenthood is a powerful anchor for the dissection of large scale issues The contributors deal in turn with ethnic and historical experience examine normative and ethical issues and cast new light on methodological concerns What the editors call culturally defined responses to basic needs helps explain both dramatic improvements in this area and how they expand the challenge of teen reproduction Contributors emphasize new demands for training and education to research this growing phenomenon The book contributes to humane concerns as well as the scientific imagination

Social Evolution in Ants Andrew F.G. Bourke, Nigel R. Franks, 2019-12-31 Biologists since Darwin have been intrigued and confounded by the complex issues involved in the evolution and ecology of the social behavior of insects The self sacrifice of sterile workers in ant colonies has been particularly difficult for evolutionary biologists to explain In this important new book Andrew Bourke and Nigel Franks not only present a detailed overview of the current state of scientific knowledge about social evolution in ants but also show how studies on ants have contributed to an understanding of many fundamental topics in behavioral ecology and evolutionary biology One of the substantial contributions of *Social Evolution in Ants* is its clear explanation of kin selection theory and sex ratio theory and their applications to social evolution in insects Working to dispel lingering skepticism about the validity of kin selection and more broadly of selfish gene theory Bourke and Franks show how these ideas underpin the evolution of both cooperation and conflict within ant societies In addition using simple algebra they provide detailed explanations of key mathematical models Finally the authors discuss two relatively little known topics in ant social biology life history strategy and mating systems This comprehensive up to date and well referenced work will appeal to all researchers in social insect biology and to scholars and students in the fields of entomology behavioral ecology and evolution

Evolution and Social Psychology Mark Schaller, Jeffrey A. Simpson, Douglas T. Kenrick, 2013-05-13 Why do we think about and interact with other people in the particular ways that we do Might these thoughts and actions be contemporary products of our long ago evolutionary past If so how might this be and what are the implications Research generated by an evolutionary approach to social psychology issues profound insights into self concept impression formation prejudice group dynamics helping aggression social influence culture and every other topic that is fundamental to social psychology *Evolution and Social Psychology* is the first book to review and discuss this broad range of social psychological phenomena from an evolutionary perspective It does so with a critical and constructive eye Readers will emerge with a clear sense of the intellectual challenges as well as the scientific benefits of an evolutionarily informed social psychology The world renowned contributors identify new questions new theories and new hypotheses many of which are only now beginning to be tested Thus this book not only summarizes the current status of the field it also sets an agenda for the next generation of research on evolution and social psychology *Evolution and Social Psychology* is essential reading for evolutionary

psychologists and social psychologists alike

Companion Encyclopedia of Anthropology Tim Ingold, 2002-09-11

Provides a comprehensive survey of contemporary thinking in biological social and cultural anthropology and establishes the interconnections between these three fields Useful cross references within the text with full biographical references and suggestions for further reading Carefully illustrated with line drawings and photographs The Companion Encyclopedia of Anthropology is a welcome addition to the reference literature Bringing together authoritative incisive and scrupulously edited contributions from some three dozen authors The book achieves an impressive breadth of coverage of specialist areas Times Higher Educational Supplement Recommended for all anthropology collections especially those in academic libraries Library Journal This is a marvellous book and I am very happy to recommend it Reference Reviews

Asdell's Patterns of Mammalian Reproduction Virginia Douglass Hayssen, Ari Van Tienhoven, Ans Van Tienhoven, 1993 Since the appearance of the second edition of Sydney A Asdell's widely used Patterns of Mammalian Reproduction in 1964 the field of reproductive physiology has expanded dramatically Accordingly this revision adopts a different structure from previous editions substituting empirical delineations for physiological interpretations With the emphases now on a presentation of the published facts of mammalian reproduction it provides a thorough compilation of what is known about the basic reproductive biology of each of the 4300 mammalian species To gather information the authors examined more than 20 000 publications dating up to 1992 They used primary sources as much as possible supplementing them with English translations of Russian Finnish Chinese and Japanese journals The data are presented in taxonomic order Each familial account summarizes the pattern of reproduction for the family and provides lists of citations arranged by topic of the literature on the endocrinology reproductive anatomy and reproductive physiology of the family Following each account is a tabular listing of species specific data for neonatal mass and size weaning mass and size litter size age at sexual maturity estrous cycle length gestation length lactation length number of litters per year and seasonality of reproduction For each of these reproductive variables the range of data gleaned from the literature is given together with the source of each value listed Virginia Hayssen is Assistant Professor of Biology at Smith College Ari Van Tienhoven is Professor of Animal Physiology Emeritus at Cornell University Ans Van Tienhoven assisted in the compilation of data for the book

Companion Encyclopaedia of Anthropology Tim

Ingold, 2021-12-24 This comprehensive survey of contemporary thought in biological social and cultural anthropology sets the foundation for their future development and integration The principal rationale behind the Encyclopedia is to overcome the division and fragmentation within the approaches of the humanities and natural sciences to anthropology It emphasizes interconnections between perspectives and sub disciplines producing a complete perspective on what it means to be human The work consists of three parts Humanity Culture and Social Life and 40 major contributions Part One emphasizes human beings as members of a species how that species differs from others how it has evolved and how human populations have adapted to and in turn transformed their environments Part Two deals with the origin and structure of human culture and on

the role of culture in action perception and cognition Part Three examines the various aspects of the relationships and processes that are carried on by persons and groups in the course of social life Useful features such as cross references within the text full biographical references suggestions for further reading and carefully illustrated line drawings make this an indispensable resource for all students of anthropology or sociology Advances in Experimental Social Psychology Patricia Devine,Ashby Plant,2012-03-05 Advances in Experimental Social Psychology continues to be one of the most sought after and most often cited series in this field Containing contributions of major empirical and theoretical interest this series represents the best and the brightest in new research theory and practice in social psychology Contains contributions of major empirical and theoretical interest This series represents the best and the brightest in new research theory and practice in social psychology **Cheetahs of the Serengeti Plains** Timothy M. Caro,1994-08-15 Cheetahs of the Serengeti Plains is the most comprehensive account of carnivore social behavior to date Synthesizing more than a decade of research in the wild this book offers a detailed account of the behavior and ecology of cheetahs Compared with other large cats and other mammals cheetahs have an unusual breeding system whereas lions live in prides and tigers are solitary some cheetahs live in groups while others live by themselves Tim Caro explores group and solitary living among cheetahs and discovers that the causes of social behavior vary dramatically even within a single species Why do cheetah cubs stay with their mother for a full year after weaning Why do adolescents remain in groups Why do adult males live in permanent associations with each other Why do adult females live alone Through observations on the costs and benefits of group living Caro offers new insight into the complex behavior of this extraordinary species For example contrary to common belief about cooperative hunting in large carnivores he shows that neither adolescents nor adult males benefit from hunting in groups With many surprising findings and through comparisons with other cat species Caro enriches our understanding of the evolution of social behavior and offers new perspectives on conservation efforts to save this charismatic and endangered carnivore

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web check for fuel leaks do a visual inspection of the fuel tanks and the left side of the engine for fuel leaks or damaged fuel lines possible causes include a leaking or damaged fuel tank leaking or damaged fuel line leaking or damaged fuel filter module and a leaking or damaged fuel pump

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