



Parental Care And Its Evolution In Birds

T. H. Clutton-Brock



Parental Care And Its Evolution In Birds:

Parental Care and Its Evolution in Birds Samuel Charles Kendeigh, 1955 **The Evolution of Parental Care** Mathias Kölliker, 2012-08-09 Parental care includes a wide variety of traits that enhance offspring development and survival. It is taxonomically widespread and is central to the maintenance of biodiversity through its close association with other phenomena such as sexual selection, life history evolution, sex allocation, sociality, cooperation, and conflict, growth and development, genetic architecture, and phenotypic plasticity. This novel book provides a fresh perspective on the study of the evolution of parental care based on contributions from some of the top researchers in the field. It provides evidence that the dynamic nature of family interactions and particularly the potential for co-evolution among family members has contributed to the great diversity of forms of parental care and life histories across as well as within taxa. **The Evolution of Parental Care** aims to stimulate students and researchers alike to pursue exciting new directions in this fascinating and important area of behavioural and evolutionary biology. It will be of relevance and use to those working in the fields of animal behaviour, ecology, evolution, and genetics as well as related disciplines such as psychology and sociology.

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. **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. **Parental Care in Mammals** David J. Gubernick, 2013-11-11 The editors of this volume have honored me by their invitation to write its Foreword, an invitation extended because of my editing a book on the maternal behavior of mammals in 1963. Much as I would like to think that I had opened a new area of study and so played some part in the appearance of this fine new collection of chapters, the facts are quite otherwise. That in 1963 I could assemble the efforts of many distinguished investigators shows that the topic had already engaged their attention and had for some years past. But even then the topic had origins extending much farther into the past, to mention only Wiesner and Sheard's book *Maternal Behavior in the Rat* of 1933. Nevertheless, in 1963 it seemed to me that the study of maternal care in mammals had lagged behind the study of other kinds of social behavior. The present volume does much to establish parental care of the young as a topic central to an understanding of the relation between ontogeny and phylogeny to the development

of the young to the social organization of the species and to its preservation It may now be seen not only as interesting but as a most significant pattern of behavior among mammals

How Birds Evolve Douglas J. Futuyma, 2024-10-29 Why are male birds often so brightly colored Why do some birds lay more eggs than others Will bird species adapt to climate change In *How Birds Evolve* Douglas Futuyma invites readers into the amazing world of bird evolution to answer these and other questions Futuyma's goal in this book is not to offer a comprehensive evolutionary history of birds but to explore how the processes of evolution produced the distinctive features and behaviors we observe in birds today as well as their impressive diversity Using one or two birds per chapter as a lens into broader questions Futuyma explores how a bird's evolutionary history helps us understand the diversity of species and the bird tree of life and how natural selection explains most of the characteristics of birds from how populations adapt to sexual selection and birds' amazing social behavior Futuyma concludes by discussing the future of birds particularly patterns of extinction and whether they can adapt to a changing climate Ultimately Futuyma wants readers to see that evolutionary biology helps us to better understand birds and that the reverse is also true studies of birds have informed almost every aspect of evolutionary biology from Darwin to today

Avian Growth and Development J. Matthias Starck, Robert E. Ricklefs, 1998 This is the first reappraisal in 50 years of concepts of development made in birds This book is a case study in evolutionary diversification of life histories Although birds have a rather uniform body plan and physiology they exhibit marked variation in development type parental care and rate of growth Altricial birds are fully dependent on their parents for warmth and nutrition and begin posthatching life in a more or less embryonic condition At the other extreme such superprecocial species as the megapodes are independent of all parental care from hatching and the neonate able to fly resembles an adult bird This book thus attempts to present an integrative perspective of organism biology ecology and evolution

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 and

Sperm Competition and Sexual Selection Tim R. Birkhead, Anders Pape Møller, 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

Ecology and Evolution of Cooperative Breeding in Birds Walter D. Koenig, Janis L. Dickinson, 2004-04-22 Cooperative breeders are species in which more than a pair of individuals assist in the production of young Cooperative breeding is found in only a few hundred bird species world wide and understanding this often strikingly altruistic behaviour has remained an important challenge in behavioural ecology for over 30 years This book highlights the theoretical empirical and technical advances that have taken place in the field of cooperative breeding research since the publication of the seminal work Cooperative Breeding in Birds Long term Studies of Behavior and Ecology 1990 HB ISBN 0521 372984 PB ISBN 0521 378907 Organized conceptually special attention is given to ways in which cooperative breeders have proved fertile subjects for testing modern advances to classic evolutionary problems including those of sexual selection sex ratio manipulation life history evolution partitioning of reproduction and incest avoidance It will be of interest to both students and researchers interested in behaviour and ecology

Parental Behavior in Birds Rae Silver, 1977

Physiological Adaptations for Breeding in Birds Tony D. Williams, 2012-08-05

Physiological Adaptations for Breeding in Birds is the most current and comprehensive account of research on avian reproduction It develops two unique themes the consideration of female avian reproductive physiology and ecology and an emphasis on individual variation in life history traits Tony Williams investigates the physiological metabolic energetic and hormonal mechanisms that underpin individual variation in the key female specific reproductive traits and the trade offs between these traits that determine variation in fitness The core of the book deals with the avian reproductive cycle from seasonal gonadal development through egg laying and incubation to chick rearing Reproduction is considered in the context of the annual cycle and through an individual s entire life history The book focuses on timing of breeding clutch size egg size and egg quality and parental care It also provides a primer on female reproductive physiology and considers trade offs and carryover effects between reproduction and other life history stages In each chapter Williams describes individual variation in the trait of interest and the evolutionary context for trait variation He argues that there is only a rudimentary and in some cases nonexistent understanding of the physiological mechanisms that underpin individual variation in the major reproductive life history traits and that research efforts should refocus on these key unresolved problems by incorporating detailed physiological studies into existing long term population studies generating a new synthesis of physiology ecology and evolutionary biology

Biology and Comparative Physiology of Birds A. J. Marshall, 2013-10-22 Biology and Comparative Physiology of Birds Volume II focuses on the physiology sexual characteristics sensory organs nervous system and reproduction of birds The selection first offers information on the central nervous system and sensory organ of birds as well as cerebralization and related problems brain spinal cord skin taste and olfaction The book then ponders on equilibration

vision and hearing of birds Topics include regulation of somatic musculature sensory structures and their nerves retina color vision and structure of the ear The publication examines endocrine glands thymus and pineal body and sex and secondary sexual characters including genetic sex and sex differentiation adrenal and parathyroid glands and pituitary or hypophysis The text also takes a look at energy metabolism thermoregulation body temperature reproduction breeding seasons and migration and flight of birds The selection is a vital source of information for readers interested in the physiology of birds

Comparative Social Evolution Dustin R. Rubenstein, Patrick Abbot, 2017-03-24 Darwin famously described special difficulties in explaining social evolution in insects More than a century later the evolution of sociality defined broadly as cooperative group living remains one of the most intriguing problems in biology Providing a unique perspective on the study of social evolution this volume synthesizes the features of animal social life across the principle taxonomic groups in which sociality has evolved The chapters explore sociality in a range of species from ants to primates highlighting key natural and life history data and providing a comparative view across animal societies In establishing a single framework for a common trait based approach towards social synthesis this volume will enable graduate students and investigators new to the field to systematically compare taxonomic groups and reinvigorate comparative approaches to studying animal social evolution

Helping Communal Breeding in Birds J. L. Brown, 2014-07-14 An overview of the extensive and frequently controversial literature on communally breeding birds developed since the early 1960s when students of evolution began to examine sociality as a product of natural selection Jerram Brown provides original data from his own theoretical and empirical studies and summarizes the wide array of results and interpretations made by others 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

Ornithology in Laboratory and Field Olin Sewall Pettingill, 2013-10-02 Ornithology in Laboratory and Field is intended as an aid to ornithological study at the college or university level Students who lack the background knowledge usually acquired during a course in general zoology or biology should keep it handy for ready reference a standard elementary text on the subject This book contains extensive material for purely informational reading possibly enough to supplant the need of an additional textbook Its principal purpose still complies with the title of its predecessors for it is essentially a manual to guide and assist the student in direct observations All twenty sections except the last The Origin Evolution and Decrease of Birds suggest methods and provide instructions for studies and all conclude with an extensive list of references frequently annotated for further information The twenty sections of the book can be taken up in almost any order and some may be omitted without affecting the instructional value of the others A feature of this new

edition is an introduction to birds and ornithology intended for reading at the beginning of a course The purpose is twofold to show the significance of birds for study and to give an overall preview of ornithology the subject with emphasis on its wide scope how it is studied and some of the continuing and exciting opportunities that it offers for investigation Vertebrate Mating Systems (B) Marco Festa-bianchet,Marco Apollonio,Danilo Mainardi,2000-10-09 This book reviews the relationship of mating systems with other aspects of vertebrate biology It presents many stimulating new perspectives and ideas on mating systems studies While many of the authors present some of their own research in all cases they underline the general relevance of their work and speculate on future directions of scientific inquiry *Current Ornithology* D.M.

Power,2013-06-29 This edited series has three principal goals The first is to provide information in a relatively concise way for researchers needing an over view of specific disciplines The second is to provide an update on specific schools of thought bringing together ideas from colleagues whose works often appear in a variety of journals And the third is to stimulate and suggest directions for new research Volume 6 continues the tradition established by the previous editor and editorial board in providing new information updating our understanding of specific disciplines and stimulating new research In the first chapter Randall Breitwisch examines mortality patterns and sex ratios in monogamous birds He argues that there are many more components to measuring parental investment than are often realized our knowledge is weak in several areas Understanding the evolution of mating systems depends on better distinguishing the different intensities of natural selection that operate on males and females Gregory Butcher and Sievert Rohwer develop a framework for assessing the role of colorfulness in birds They propose several hypotheses to test and advocate evaluating more than one hypothesis at a time Future work on the evolution of distinctive coloration and of sexual and age dimorphism must take these ideas into account

Handbook of Bird Biology Irby J. Lovette,John W. Fitzpatrick,2016-06-27 Selected by Forbes.com as one of the 12 best books about birds and birding in 2016 This much anticipated third edition of the Handbook of Bird Biology is an essential and comprehensive resource for everyone interested in learning more about birds from casual bird watchers to formal students of ornithology Wherever you study birds your enjoyment will be enhanced by a better understanding of the incredible diversity of avian lifestyles Arising from the renowned Cornell Lab of Ornithology and authored by a team of experts from around the world the Handbook covers all aspects of avian diversity behaviour ecology evolution physiology and conservation Using examples drawn from birds found in every corner of the globe it explores and distills the many scientific discoveries that have made birds one of our best known and best loved parts of the natural world This edition has been completely revised and is presented with more than 800 full color images It provides readers with a tool for life long learning about birds and is suitable for bird watchers and ornithology students as well as for ecologists conservationists and resource managers who work with birds The Handbook of Bird Biology is the companion volume to the Cornell Lab's renowned distance learning course www.birds.cornell.edu/courses/home_homestudy **Genes and Behaviour** David J. Hosken,John Hunt,Nina

Wedell, 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.

This book delves into Parental Care And Its Evolution In Birds. Parental Care And Its Evolution In Birds is a crucial topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Parental Care And Its Evolution In Birds, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Parental Care And Its Evolution In Birds
- Chapter 2: Essential Elements of Parental Care And Its Evolution In Birds
- Chapter 3: Parental Care And Its Evolution In Birds in Everyday Life
- Chapter 4: Parental Care And Its Evolution In Birds in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Parental Care And Its Evolution In Birds. The first chapter will explore what Parental Care And Its Evolution In Birds is, why Parental Care And Its Evolution In Birds is vital, and how to effectively learn about Parental Care And Its Evolution In Birds.

3. In chapter 2, the author will delve into the foundational concepts of Parental Care And Its Evolution In Birds. This chapter will elucidate the essential principles that must be understood to grasp Parental Care And Its Evolution In Birds in its entirety.

4. In chapter 3, the author will examine the practical applications of Parental Care And Its Evolution In Birds in daily life. The third chapter will showcase real-world examples of how Parental Care And Its Evolution In Birds can be effectively utilized in everyday scenarios.

5. In chapter 4, the author will scrutinize the relevance of Parental Care And Its Evolution In Birds in specific contexts. The fourth chapter will explore how Parental Care And Its Evolution In Birds is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Parental Care And Its Evolution In Birds. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Parental Care And Its Evolution In Birds.

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Parental Care And Its Evolution In Birds Introduction

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