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Parasitic Birds and Their Hosts

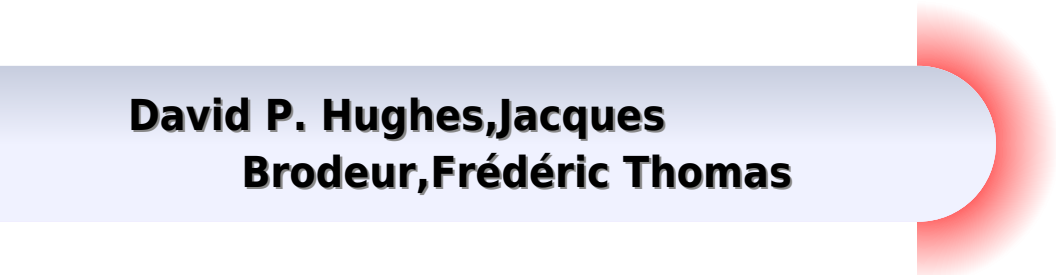
Studies in Coevolution



Edited by
Stephen I. Rothstein and Scott K. Robinson

Parasitic Birds And Their Hosts Studies In Coevolution

**David P. Hughes, Jacques
Brodeur, Frédéric Thomas**



Parasitic Birds And Their Hosts Studies In Coevolution:

Parasitic Birds and Their Hosts Stephen I. Rothstein, Scott Kuehner Robinson, 1998 This book is the first to present a comprehensive overview of parasitic birds and their hosts Although the phenomenon has attracted the interest of naturalists and evolutionists since Darwin only recently have researchers applied modern evolutionary theory and experimental methods to study the various adaptations related to brood parasitism The work in this field is accelerating rapidly and this volume collects work from the individuals and research groups around the world who have been responsible for nearly every major study in the last ten years The papers present valuable summaries along with substantial new research and the volume concludes with a review of important unsolved questions The book is an invaluable resource on this fascinating topic covering the remarkable sequences of adaptations and counter adaptations along with the perhaps even more remarkable cases where adaptations seem to be lacking

Cuckoos, Cowbirds and Other Cheats Nick Davies, 2010-09-30 This fascinating study describes the natural histories of these brood parasites and examines many of the exciting questions they raise about the evolution of cheating and the arms race between parasites and their prey Brood parasites fill their armoury with adaptations including exquisite egg mimicry rapid laying ejection of host eggs murder of host young chick mimicry and manipulative begging behaviour ploys shown by recent research to have evolved in response to host defence behaviour or through competition among the parasites themselves While many host species appear defenceless accepting parasite eggs quite unlike their own many are more discriminating against odd looking eggs and some have evolved the ability to discriminate against odd looking chicks as well How is this arms race conducted Will defenceless hosts develop defences in time or are there constraints which limit the evolution and perfection of host defences And why are so few species obliged only to lay eggs in host nests Have host defences limited the success of brood parasitism or is it in fact much more common than we suspect but occurring mainly when birds parasitize the nest of their own kind All of these puzzles are examined in descriptions of the natural history of each of the groups of parasites in turn Here is a book with wide appeal both to amateur naturalists fascinated by this most singular and macabre of behaviours and by ornithologists and ecologists interested in the evolution of ecology and behaviour The story takes us from the classic field work by pioneer ornithologists such as Edgar Chance Stuart Baker Herbert Friedmann and others through to the experimental field work and molecular techniques of today's leading scientists We visit brood parasites in Europe Asia Japan Africa Australasia and North and South America to look at some of the world's most interesting birds and some of biology's most interesting questions many of which still beg answers from ornithologists in the future Brilliant illustrations by David Quinn illuminate the species discussed showing many behaviours never before illustrated and conveying the thrill of watching these astonishing birds in the wild

Avian Brood Parasitism Manuel Soler, 2018-05-02 Brood parasitism has become one of the most flourishing areas of research in evolutionary ecology and one of the best model systems for investigating coevolution This subject has undergone remarkable

advances during the last two decades but has not been covered by any book in the 21st century This book offers a comprehensive and up to date overview of the fascinating field of avian brood parasitism The topics covered include conspecific brood parasitism evolution and phylogenetic history of avian brood parasites parasitic behaviour used by brood parasites adaptations and counter adaptations of brood parasites and their hosts at every stage of the breeding cycle before laying egg chick and fledgling stages factors affecting the evolution of host defences and parasitic attacks the role of phenotypic plasticity in host defences mechanisms driving egg recognition and rejection evolution of nest sharing or nest killing by brood parasite chicks begging behaviour in parasitized nests and food delivery by host adults and recognition of conspecifics by juvenile brood parasites This volume provides a comprehensive reference resource for readers and researchers with an interest in birds behaviour and evolution as well as a source of hypotheses and predictions for future investigations into this dynamic subject

Host Manipulation by Parasites David P. Hughes, Jacques Brodeur, Frédéric Thomas, 2012-06-07 Parasites that manipulate the behaviour of their hosts represent striking examples of adaptation by natural selection This text provides an authoritative review of host manipulation by parasites that assesses developments in the field and lays out a framework for future research

Behavioral Ecology of Neotropical Birds Juan Carlos Rebores, Vanina Dafne Fiorini, Diego Tomás Tuero, 2019-04-24 This book covers central aspects of behavioral ecology including sexual selection social and genetic mating systems cooperative breeding brood parasitism brood reduction migration personalities and communication Over the past several years Neotropical bird species from temperate to tropical latitudes of South America have been extensively studied yielding valuable insights into the evolutionary mechanisms that drive their behavioral traits In this book international experts provide a general overview of main behavioral aspects They also present the main findings of their work including experimental approaches to testing the most accepted behavioral theory in their model systems In closing they propose new theoretical frameworks and future research directions As such the book provides a comprehensive and updated guide for all researchers students and professionals whose work involves the study and management of birds across the Neotropical region

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

Songbird Behavior and Conservation in the Anthropocene Darren S. Proppe, 2021-12-30 Learned and fixed behaviors underlie many of the patterns we observe in songbirds But the environmental context in which these patterns occur is changing quickly often to the detriment of the individual and species The goal of this book is to weave concepts of behavior more tightly into our conservation strategies Each chapter describes the current understanding of behavior in relation to a particular songbird life history trait The

authors then evaluate challenges that songbirds face in the Anthropocene and explore the role of behavior in addressing these challenges The future is uncertain for songbirds but broadening our management toolkit will increase the potential for success

Management of Cowbirds and Their Hosts Catherine P. Ortega, Jameson Fales Chace, Brian D. Peer, 2005

A Natural History of Families Scott Forbes, 2007-01-02 Why do baby sharks hyenas and pelicans kill their siblings Why do beetles and mice commit infanticide Why are twins and birth defects more common in older human mothers A Natural History of Families concisely examines what behavioral ecologists have discovered about family dynamics and what these insights might tell us about human biology and behavior Scott Forbes s engaging account describes an uneasy union among family members in which rivalry for resources often has dramatic and even fatal consequences In nature parents invest resources and control the allocation of resources among their offspring to perpetuate their genetic lineage Those families sometimes function as cooperative units the nepotistic and loving havens we choose to identify with In the natural world however dysfunctional familial behavior is disarmingly commonplace While explaining why infanticide fratricide and other seemingly antisocial behaviors are necessary Forbes also uncovers several surprising applications to humans Here the conflict begins in the moments following conception as embryos struggle to wrest control of pregnancy from the mother and to wring more nourishment from her than she can spare thus triggering morning sickness diabetes and high blood pressure Mothers in return often spontaneously abort embryos with severe genetic defects allowing for prenatal quality control of offspring Using a broad sweep of entertaining examples culled from the world of animals and humans A Natural History of Families is a lively introduction to the behavioral ecology of the family

Behavioral Ecology of Tropical Animals Regina H. Macedo, 2010-11-15 Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior That number is still expanding This thematic volume makes another important contribution to the development of the field by bringing together material that aggregates studies conducted on the behavior of tropical animals Advances in the Study of Behavior is now available online at ScienceDirect full text online from volume 30 onward

In a Class of Their Own Gary Ritchison, 2023-11-06 With more than 10 000 species that vary in size use diverse habitats that extend across latitudes and altitudes consume a wide variety of food items differ in how they fly or not communicate and reproduce and have different life histories birds exhibit remarkable variation in form anatomy and function physiology Our understanding of how natural selection has generated this variation as birds evolved and as different species adapted to their unique circumstances has grown considerably in recent years In In a Class of Their Own A Detailed Examination of Avian Forms and Functions this variation is explained in great detail beginning with an overview of avian evolution and continuing with information about the structure and function of the avian skeleton muscles and the various body systems Other chapters focus on avian locomotion including flight migration navigation communication energy balance and thermoregulation and various aspects of avian reproduction such as nests and nest building clutch sizes and parental

care In a Class of Their Own A Detailed Examination of Avian Forms and Functions will be must reading for anyone professional or non professional who needs or wants to learn more about birds **The Birds of the Iberian Peninsula** Eduardo de Juana, Ernest Garcia, 2015-02-26 This authoritative title is the definitive avifauna covering the Iberian Peninsula The Iberian Peninsula is one of Europe s most ornithologically varied regions offering a host of regional specialities It includes famous birding hotspots such as the Coto Dona a wetlands mountainous areas such as the Picos de Europa and the Pyrenees the Mediterranean cork and holm oak forests of the southwest the migration crossroads of the Strait of Gibraltar and the steppe like plains of Extremadura and Alentejo Large numbers of birders from around Europe visit the region to see this wealth of winged wildlife but to date there has been no comprehensive regional avifauna in English Birds of the Iberian Peninsula is a national avifauna that fills this gap in the ornithological literature Full colour throughout the book begins with authoritative introductory chapters covering subjects such as geography climate habitats the history of Iberian ornithology and the composition of the avifauna The species accounts then cover every species recorded in mainland Spain the Balearic Islands Portugal Gibraltar and Andorra including the many vagrants For each species there is detailed treatment of distribution with maps of breeding and wintering ranges habitat selection population trends historical and current status migration and conservation *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 Begging** J. Wright, Marty L. Leonard, 2007-05-08 Begging by nestling birds has become the model system for investigating evolutionary conflicts of interest within families and their theoretical resolution provided by honest signals of offspring need In response to the recent explosions of scientific papers on the revolution of begging we have brought together twenty four original contributions from major researchers in all areas of this dynamic field Organised into six sections I Theoretical approaches II Begging as a signal III Nestling physiology IV Sibling competition V Brood parasitism and VI Statistical approaches this book is primarily aimed at research scientists and those at the graduate student level For the first time the theoretical and empirical literature on begging is fully reviewed

New ideas and data are also presented from a wide range of natural systems and each chapter ends with suggestions for future study

Ecology and Management of Blackbirds (Icteridae) in North America George M. Linz, Michael L. Avery, Richard A. Dolbeer, 2017-09-19 Shortlisted for the 2018 TWS Wildlife Publication Awards in the edited book category

The various species of new world blackbirds often intermingled in large foraging flocks and nighttime roosts collectively number in the hundreds of millions and are a dominant component of the natural and agricultural avifauna in North America today. Because of their abundance, conspicuous flocking behavior, and feeding habits, these species have often been in conflict with human endeavors. The pioneering publications on blackbirds were by F. E. L. Beal in 1900 and A. A. Allen in 1914. These seminal treatises laid the foundation for more than 1,000 descriptive and experimental studies on the life histories of blackbirds as well as their ecology and management in relation to agricultural damage and other conflicts such as those caused by large winter roosting congregations. The wealth of information generated in over a century of research is found in disparate outlets that include government reports, conference proceedings, peer-reviewed journals, monographs, and books. For the first time, *Ecology and Management of Blackbirds (Icteridae) in North America* summarizes and synthesizes this vast body of information on the biology and life histories of blackbirds and their conflicts with humans into a single volume for researchers, wildlife managers, agriculturists, disease biologists, ornithologists, policy makers, and the public. The book reviews the life histories of red-winged blackbirds, yellow-headed blackbirds, common grackles, and brown-headed cowbirds. It provides in-depth coverage of the functional roles of blackbirds in natural and agricultural ecosystems. In doing so, this authoritative reference promotes the development of improved, science-based integrated management strategies to address conflicts when resolutions are needed.

Reproductive Biology of Teleost Fishes Robert J. Wootton, Carl Smith, 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 *The Flying Zoo* Michael Stock,2022-08-31 My work as a scientist who studies bird parasites causes me to wonder about the hidden part of the drama unfolding before my eyes the flying zoo that makes each bird what it is As I gaze out at my favourite birds I wonder what role their parasites have played in shaping their fascinating behaviours and alluring appearance From Chapter 1 In *The Flying Zoo* Michael Stock gives readers an enthusiastic tribute to birds and the parasites that live in and on them From the Crozet Archipelago and the Galapagos Islands to our own backyards parasites fleas lice ticks and flukes live in a sinister yet symbiotic relationship with their host birds With a scientist's exuberance Stock reveals a co evolutionary dance among an astounding cast of creatures living in a complex and paradoxical co habitation Following in the footsteps of *Fleas Flukes and Cuckoos* this contemporary classic deserves a place on the shelves of students and teachers of biology natural history buffs and birders **Evolution and Function of**

Acoustic and Visual Signals in Avian Brood Parasitism Canchao Yang,Brian Peer,Cynthia Ursino,Jiangping Yu,James Rivers,2022-07-01 **Invasive Birds** Colleen T. Downs,Lorinda A. Hart,2020-12-07 Examining globally invasive alien birds the first part of this book provides an account of 32 global avian invasive species as listed by the Invasive Species Specialist Group ISSG It acts as a one stop reference volume it assesses current invasive status for each bird species including details of physical description diet introduction and invasion pathways breeding behaviour natural habitat It also looks at the environmental impact of each species as well as current and future control methods Full colour photographs assist with species identification and global distribution maps give a visual representation of the current known distributions of these species The second part of the book discusses the biogeographical aspects of avian invasions highlighting current and emerging invasive species across different regions of the world The third section considers the impact of invasive species on native communities problems associated with invasive bird management and the use of citizen science in the study of invasive birds **Ecology and Management of Cowbirds and Their Hosts** James N. M. Smith,Terry L. Cook,Stephen I.

Rothstein,Scott K. Robinson,Spencer G. Sealy,2014-09-05 In the past two centuries cowbirds have increased in numbers and extended their range across North America while many of the native songbird species whose nests they parasitize to raise their young have declined This timely book collects forty essays by most of the principal authorities on the biology and management of cowbirds The book's goals are to explore the biology of cowbirds the threats they pose to host species and populations and the management programs that are being undertaken to minimize these threats The book is organized into five sections each with an extended editors introduction that places the contributions in a broad up to date setting The sections cover The changing abundance of cowbirds and the ways in which their numbers can be estimated Host choice by cowbirds the negative effects of cowbirds on particular host species and the daily patterns of cowbird behavior Behavioral interactions between cowbirds and specific host species Patterns of cowbird abundance and host use across varying landscapes Management programs designed to control cowbirds and protect threatened songbirds

This book delves into Parasitic Birds And Their Hosts Studies In Coevolution. Parasitic Birds And Their Hosts Studies In Coevolution is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Parasitic Birds And Their Hosts Studies In Coevolution, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Parasitic Birds And Their Hosts Studies In Coevolution
 - Chapter 2: Essential Elements of Parasitic Birds And Their Hosts Studies In Coevolution
 - Chapter 3: Parasitic Birds And Their Hosts Studies In Coevolution in Everyday Life
 - Chapter 4: Parasitic Birds And Their Hosts Studies In Coevolution in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Parasitic Birds And Their Hosts Studies In Coevolution. This chapter will explore what Parasitic Birds And Their Hosts Studies In Coevolution is, why Parasitic Birds And Their Hosts Studies In Coevolution is vital, and how to effectively learn about Parasitic Birds And Their Hosts Studies In Coevolution.
 3. In chapter 2, the author will delve into the foundational concepts of Parasitic Birds And Their Hosts Studies In Coevolution. The second chapter will elucidate the essential principles that must be understood to grasp Parasitic Birds And Their Hosts Studies In Coevolution in its entirety.
 4. In chapter 3, this book will examine the practical applications of Parasitic Birds And Their Hosts Studies In Coevolution in daily life. This chapter will showcase real-world examples of how Parasitic Birds And Their Hosts Studies In Coevolution can be effectively utilized in everyday scenarios.
 5. In chapter 4, the author will scrutinize the relevance of Parasitic Birds And Their Hosts Studies In Coevolution in specific contexts. This chapter will explore how Parasitic Birds And Their Hosts Studies In Coevolution is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Parasitic Birds And Their Hosts Studies In Coevolution. The final 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 Parasitic Birds And Their Hosts Studies In Coevolution.

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Parasitic Birds And Their Hosts Studies In Coevolution Introduction

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