

Cowbirds

and Other Brood Parasites



Catherine Ortega

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Catherine P. Ortega



Cowbirds And Other Brood Parasites:

Cowbirds and Other Brood Parasites Catherine P. Ortega, 2023-01-10 The Brown headed Cowbird is known to use the nests of more than 200 other bird species and cowbirds in general are believed to play a role in the decline of some migratory songbird populations These brood parasites birds that lay their eggs in the nests of others have long flourished in North America In this timely book Catherine Ortega summarizes and synthesizes a wealth of information on cowbirds from around the world that has appeared since the publication of Herbert Friedmann s classic 1929 monograph on these birds Most of this information has appeared in the last quarter century and reflects advances in our understanding of how brood parasitism influences and is influenced by host species Ortega shows that in order to manage cowbirds without further damaging delicate balances in host parasite relationships it is necessary to understand such factors as behavior reproduction population dynamics and response to landscape patterns She examines and explains the origin evolution and costs of brood parasitism and she discusses the philosophical and ecological considerations regarding the management of cowbirds a controversial issue because of their perceived influence on threatened and endangered birds Because brood parasitism has evolved independently in various bird families information on this adaptive strategy is of great ecological interest and considerable value to wildlife management *Cowbirds and Other Brood Parasites* is an important reference on these creatures that enhances our understanding of both their behavior and their part in the natural world

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

Cuckoos, Cowbirds and Other Cheats Nicholas B. Davies, 2011-01-31 In this fascinating new book Nick Davies 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 armory with adaptations including exquisite egg mimicry rapid laying ejection of host eggs murder of host young chick mimicry and manipulative begging behavior ploys shown by recent research to have evolved in response to host defense behavior or through competition among the parasites themselves While many host species appear defenseless 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 defenseless hosts develop defenses in time or are there constraints which limit the evolution and perfection of host defenses And why are so few species obliged only to lay eggs in host nests Have host defenses 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 behaviors and by ornithologists and ecologists interested in the

evolution of ecology and behavior The story takes us from the classic field work earlier this century by pioneer ornithologists such as Edgar Chance Stuart Baker Herbert Friedmann and others through to the recent 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 worlds 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 behaviors never before illustrated and conveying the thrill of watching these astonishing birds in the wild *Behavioral Ecology of Neotropical Birds* Juan Carlos Reboreda, 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 The Avian Brood Parasites Paul A. Johnsgard, 1997-11-06 The evolutionary ecological and behavioral questions

posed by obligate brood parasites are among the most intriguing of all contemporary ornithological topics Avian brood parasites lay their eggs in the nests of other birds and may be a major contributing factor driving several species of songbirds to near extinction As one of the first books to present a comprehensive overview of this fascinating phenomenon this work discusses the comparative biology and co evolutionary adaptations exhibited by the five families of birds that engage in such behavior Several chapters dealing with the comparative biology of both intraspecific and interspecific brood parasites are followed by individual accounts of all known species nearly 100 altogether primarily cowbirds and cuckoos Some of the more remarkable behavioral and structural adaptations of these birds include egg mimicry juvenile mimicry elimination by starvation or actual attack of other nestlings or host eggs and even the learning and partial mimicry of host song traits An extended glossary a list of Latin names 400 literature citations and range maps of all parasitic species discussed are also included Detailed line drawings by the author enhance this synthesis of biological and ecological information **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 **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 **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 *Conservation and Biology of Small Populations* James N. M. Smith, 2006 This book explores the factors affecting the survival of small populations As the human impact on Earth expands populations of many wild species are being squeezed into smaller and smaller habitats As a consequence they face an increasing threat of extinction The authors review these theoretical ideas the existing data and explore the question how well do small and isolated populations actually perform Advances in the Study of Behavior , 2012-12-06 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 volume makes another important contribution to the development of the field by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields Advances in the Study of Behavior is now available online at ScienceDirect full text online from volume 30 onward 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

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Ten Thousand Birds Tim Birkhead, Jo Wimpenny, Bob Montgomerie, 2014-02-16 A beautifully illustrated history of modern ornithology Ten Thousand Birds provides a thoroughly engaging and authoritative history of modern ornithology tracing how the study of birds has been shaped by a succession of visionary and often controversial personalities and by the unique social and scientific contexts in which these extraordinary individuals worked This beautifully illustrated book opens in the middle of the nineteenth century when ornithology was a museum based discipline focused almost exclusively on the anatomy taxonomy and classification of dead birds It describes how in the early 1900s pioneering individuals such as Erwin Stresemann Ernst Mayr and Julian Huxley recognized the importance of studying live birds in the field and how this shift thrust ornithology into the mainstream of the biological sciences The book tells the stories of eccentrics like Colonel Richard Meinertzhagen a pathological liar who stole specimens from museums and quite likely murdered his wife and describes the breathtaking insights and discoveries of ambitious and influential figures such as David Lack Niko Tinbergen Robert MacArthur and others who through their studies of birds transformed entire fields of biology Ten Thousand Birds brings this history vividly to life through the work and achievements of those who advanced the field Drawing on a wealth of archival material and in depth interviews this fascinating book reveals how research on birds has contributed more to our understanding of animal biology than the study of just about any other group of organisms

Cognitive Challenges for Brood-parasitic Cowbirds Mark Erno Hauber, 2002 *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 *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 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

Bird versus Bulldozer Audrey Mayer, 2021 An examination of the struggle to conserve biodiversity in urban regions told through the story of the threatened coastal California gnatcatcher A well written and thoroughly researched book Provides a detailed examination of the struggle to conserve biodiversity in urban areas Susan Catherine Cork Conservation Biology The story of the threatened coastal California gnatcatcher is a parable for understanding the larger ongoing struggle to conserve biodiversity in regions confronted with intensifying urban development Because this gnatcatcher depends on vanishing coastal sage scrub in Southern California it has been regarded as a flagship species for biodiversity protection since the early 1990s But the uncertainty of the gnatcatcher's taxonomic classification and whether it can be counted as a listable unit under the Endangered Species Act has provoked contentious debate among activists scientists urban developers and policy makers Synthesizing insights from ecology environmental history public policy analysis and urban planning as she tracks these debates over the course of the past twenty five years Audrey L Mayer presents an ultimately optimistic take on the importance of much neglected regional conservation planning strategies to create sustainable urban landscapes that benefit humans and wildlife alike Biological Report, 1989

Ecology and Conservation of the Endangered Least Bell's Vireo Kay Franzreb, 1989 **Birding**, 1998 **Emerging Infectious Diseases**, 2015-07

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