

■ OXFORD ORNITHOLOGY SERIES ■

# Bird-Parasite Interactions

Ecology, Evolution,  
and Behaviour



Edited by J. E. Loye and M. Zuk

# Bird Parasite Interactions Ecology Evolution And Behavior

**Wolfgang Guggemos**



## **Bird Parasite Interactions Ecology Evolution And Behavior:**

**Bird-parasite Interactions** Jenella E. Loye, Marlene Zuk, 1991 Birds are hosts to many parasites internal and external The parasites inevitably form a burden to the host bird and therefore may affect its ability to grow survive and reproduce its behaviour and the distribution and abundance of the whole species In consequence bird parasite systems have attracted attention from diverse fields and the literature has been spread out in a wide range of specialized journals The editors of this book have drawn together a comprehensive range of experts in the field to provide an invaluable reference of current work in bird parasite interactions The book is divided into four parts The introduction provides the contemporary context of research in bird parasite systems and presents case studies which combine theoretical concepts with experimental data Subsequent parts focus on the ecology behavioural responses and the effect of parasitism on sexual selection

**Mites: Ecology, Evolution & Behaviour** David Evans Walter, Heather C. Proctor, 2013-10-08 More than 40 000 species of mites have been described and up to 1 million may exist on earth These tiny arachnids play many ecological roles including acting as vectors of disease vital players in soil formation and important agents of biological control But despite the grand diversity of mites even trained biologists are often unaware of their significance Mites Ecology Evolution and Behaviour 2nd edition aims to fill the gaps in our understanding of these intriguing creatures It surveys life cycles feeding behaviour reproductive biology and host associations of mites without requiring prior knowledge of their morphology or taxonomy Topics covered include evolution of mites and other arachnids mites in soil and water mites on plants and animals sperm transfer and reproduction mites and human disease and mites as models for ecological and evolutionary theories

**Ecology of Wildlife Host-Parasite Interactions** Bryan T. Grenfell, 1995 This new collection of articles edited by Bryan T Grenfell includes Factors affecting the evolution of virulence nematode parasites of fig wasps Maintenance of a microparasite infecting several host species in the Serengeti Wildlife disease and conservation in Hawaii pathogenicity of avian malaria *Plasmodium relictum* in experimentally infected Iiwi *Vestiaria coccinea*

**Behavioral Mechanisms in Evolutionary Ecology** Leslie Real, 1994-12-15 The first book length exploration of behavioral mechanisms in evolutionary ecology this ambitious volume illuminates long standing questions about cause and effect relations between an animal's behavior and its environment By focusing on biological mechanisms the sum of an animal's cognitive neural developmental and hormonal processes leading researchers demonstrate how the integrated study of animal physiology cognitive processes and social interaction can yield an enriched understanding of behavior With studies of species ranging from insects to primates the contributors examine how various animals identify and use environmental resources and deal with ecological constraints as well as the roles of learning communication and cognitive aspects of social interaction in behavioral evolution Taken together the chapters demonstrate how the study of internal mechanistic foundations of behavior in relation to their ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation mating and dispersal

Evolutionary Ecology shows how a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution

**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

**Parasitic Diseases of Wild Birds** Carter T. Atkinson, Nancy J. Thomas, D. Bruce Hunter, 2009-03-06 Parasitic Diseases of Wild Birds provides thorough coverage of major parasite groups affecting wild bird species Broken into four sections covering protozoa helminths leeches and arthropod parasites this volume provides reviews of the history disease epizootiology pathology and population impacts caused by parasitic disease Taking a unique approach that focuses on the effects of the parasites on the host Parasitic Diseases of Wild Birds fills a unique niche in animal health literature

**Advances in the Study of Behavior**, 1993-04-20 Advances in the Study of Behavior is the leading series in its field Each volume includes a variety of review essays by experts providing authoritative overviews of key areas of current interest that are invaluable to the teacher student and researcher in the field of behavior whether psychologist or biologist This volume continues the tradition of excellence in the study of behavior by covering a whole range of biological and psychological research Each of the chapters presents new ideas with a particularly interesting approach to sexual coercion The volume as a whole has a particular strength in the area of behavioral development which is the main topic of the last three chapters

Waterbirds Around the World G. C. Boere, Colin A. Galbraith, David A. Stroud, 2006 This book is the outcome of a major international conference on waterbirds held in Edinburgh in April 2004

**Sturkie's Avian Physiology** G. Causey Whittow, 1999-10-14 Sturkie's Avian Physiology is the classic comprehensive single volume on the physiology of domestic as well as wild birds The Fifth Edition is thoroughly revised and updated and includes new chapters on the physiology of incubation and growth Chapters on the nervous system and sensory organs have been greatly expanded due to

the many recent advances in the field The text also covers the physiology of flight reproduction in both male and female birds and the immunophysiology of birds The Fifth Edition like the earlier editions is a must for anyone interested in comparative physiology poultry science veterinary medicine and related fields This volume establishes the standard for those who need the latest and best information on the physiology of birds Thoroughly updated and revised Coverage of both domestic and wild birds New larger format Only comprehensive single volume devoted to birds

**Don't Look, Don't Touch** Valerie Curtis, 2013-09-26 Every flu season sneezing coughing and graphic throat clearing become the day to day background noise in the workplace And coworkers tend to move as far and as quickly away from the source of these bodily eruptions as possible Instinctively humans recoil from objects that they view as dirty and even struggle to overcome feelings of discomfort once the offending item has been cleaned These reactions are universal and although there are cultural and individual variations by and large we are all disgusted by the same things In *Don't Look Don't Touch Don't Eat* Valerie Curtis builds a strong case for disgust as a shadow emotion less familiar than love or sadness it nevertheless affects our everyday lives In disgust biological and sociocultural factors meet in dynamic ways to shape human and animal behavior Curtis traces the evolutionary role of disgust in disease prevention and hygiene but also shows that it is much more than a biological mechanism Human social norms from good manners to moral behavior are deeply rooted in our sense of disgust The disgust reaction informs both our political opinions and our darkest tendencies such as misogyny and racism Through a deeper understanding of disgust Curtis argues we can take this ubiquitous human emotion and direct it toward useful ends from combating prejudice to reducing disease in the poorest parts of the world by raising standards of hygiene *Don't Look Don't Touch Don't Eat* reveals disgust to be a vital part of what it means to be human and explores how this deep seated response can be harnessed to improve the world Jacket

**Field Manual of Wildlife Diseases** Milton Friend, J. Christian Franson, Elizabeth A. Ciganovich, 1999 Coloniality in the Cliff Swallow Charles R. Brown, Mary Bomberger Brown, 1996-07 Many animal species live and breed in colonies Although biologists have documented numerous costs and benefits of group living such as increased competition for limited resources and more pairs of eyes to watch for predators they often still do not agree on why coloniality evolved in the first place Drawing on their twelve year study of a population of cliff swallows in Nebraska the Browns investigate twenty six social and ecological costs and benefits of coloniality many never before addressed in a systematic way for any species They explore how these costs and benefits are reflected in reproductive success and survivorship and speculate on the evolution of cliff swallow coloniality This work the most comprehensive and detailed study of vertebrate coloniality to date will be of interest to all who study social animals including behavioral ecologists population biologists ornithologists and parasitologists Its focus on the evolution of coloniality will also appeal to evolutionary biologists and to psychologists studying decision making in animals

**Factors Affecting Host Selection by Mosquitoes: Implications for the Transmission of Vector-Borne Pathogens** Josué Martínez-de la Puente, Jenny C.

Dunn, Laura Gangoso, 2022-02-03      **Tangled Trees** Roderic D. M. Page, 2003 In recent years the use of molecular data to build phylogenetic trees and sophisticated computer aided techniques to analyze them have led to a revolution in the study of cospeciation Tangled Trees provides an up to date review and synthesis of current knowledge about phylogeny cospeciation and coevolution The opening chapters present various methodological and theoretical approaches ranging from the well known parsimony approach to jungles and Bayesian statistical models Then a series of empirical chapters discusses detailed studies of cospeciation involving vertebrate hosts and their parasites including nematodes viruses and lice Tangled Trees will be welcomed by researchers in a wide variety of fields from parasitology and ecology to systematics and evolutionary biology Contributors Sarah Al Tamimi Michael A Charleston Dale H Clayton James W Demastes Russell D Gray Mark S Hafner John P Huelsenbeck J P Hugot Kevin P Johnson Peter Kabat Bret Larget Joanne Martin Yannis Michalakis Roderic D M Page Ricardo L Palma Adrian M Paterson Susan L Perkins Andy Purvis Bruce Rannala David L Reed Fredrik Ronquist Theresa A Spradling Jason Taylor Michael Tristem      **Status, Ecology, and Conservation of the Southwestern Willow Flycatcher** Deborah M. Finch, 2000      **Advances in Comparative Immunology** Edwin L. Cooper, 2018-08-07 Immunologists perhaps understandably most often concentrate on the human immune system an anthropocentric focus that has resulted in a dearth of information about the immune function of all other species within the animal kingdom However knowledge of animal immune function could help not only to better understand human immunology but perhaps more importantly it could help to treat and avoid the blights that affect animals which consequently affect humans Take for example the mass death of honeybees in recent years their demise resulting in much less pollination poses a serious threat to numerous crops and thus the food supply There is a similar disappearance of frogs internationally signaling ecological problems among them fungal infections This book aims to fill this void by describing and discussing what is known about non human immunology It covers various major animal phyla its chapters organized in a progression from the simplest unicellular organisms to the most complex vertebrates mammals Chapters are written by experts covering the latest findings and new research being conducted about each phylum Edwin L Cooper is a Distinguished Professor in the Laboratory of Comparative Immunology Department of Neurobiology at UCLA s David Geffen School of Medicine      Current Ornithology D.M. Power, 2012-12-06 In Volume 12 eminent international ornithologists further elucidate endocrinological correlates of mating strategies and hormones and reproductive behavior assess the value of the brood reduction hypothesis in explaining the paradox of hatching asynchrony and explore the validity and sensitivity of growth bands in feathers as an indication of nutritional condition and the use of feather banding in studying growth Chapters are well supported with charts maps schematic diagrams and photographs Current Ornithology is the only English language publication currently devoted exclusively to extensive reviews and synthesis of topics pertaining to all aspects of the biology of birds Chapters fall under such diverse rubrics as ecology evolution behavior phylogeny behavioral ecology anatomy and physiology and conservation biology All

authors are leading authorities on their subjects and each chapter is refereed by experts in the topics covered Although all chapters focus primarily on birds some topics such as the social cognition of birds as compared to primates Volume 13 have significant application to disciplines outside of ornithology Current Ornithology aims to provide an accessible up to date accurate source of data and to contribute to conceptual generalization and unification across the biological sciences

Parasites and Pathogens N.E. Beckage, 2012-12-06 When Nancy Beckage and I first met in Lynn Riddiford's laboratory at the University of Washington in the mid 1970s the fields of parasitology behavior and endocrinology were thriving and far flung disciplines in no serious danger of intersecting There were rumors that they might have some common ground Behavioural Aspects of Parasite Transmission Canning and Wright 1972 had just emerged with exciting news not only of the way parasites themselves behave but also of Machiavellian worms that caused intermediate hosts to shift fundamental responses to light and disturbance becoming in the process more vulnerable to predation by the next host Holmes and Bethel 1972 Meanwhile biologists such as Miriam Rothschild see Dedication G B Solomon 1969 and Lynn Riddiford herself 1975 had suggested that the endocrinological rami of parasitism might be subtle and pervasive In general however parasitizations sites were viewed as aberrant organisms perhaps good for a few just so stories prior to turning our attention once again to real animals In the decade that followed Pauline Lawrence 1986a b Davy Jones Jones et al 1986 Nancy Beckage Beckage 1985 Beckage and Templeton 1986 and others including many in this volume left no doubt that the host parasite combination in insect systems was physiologically distinct from its unparasitized counterpart in ways that went beyond gross pathology

General Technical Report RMRS ,1998      *Parasitic Protozoa* ,2012-12-02 Updated and much expanded the Second Edition of Parasitic Protozoa is designed to be useful to physicians veterinarians and research scientists concerned with diseases caused by protozoa in man and in domestic and wild animals including fish mollusks and insects as well as the more commonly considered vertebrate animals Each section contains information on disease pathogens treatment diagnosis and epidemiology of the diseases caused by the various protozoans The book is not limited to these medically oriented subjects but treats taxonomy morphology and metabolism of the organisms in such a way as to be of interest to scientists and graduate students working in the field of protozoology The entire edition published in ten volumes is arranged so that subjects of common interest occupy individual volumes

## Enjoying the Track of Phrase: An Psychological Symphony within **Bird Parasite Interactions Ecology Evolution And Behavior**

In a world taken by screens and the ceaseless chatter of quick communication, the melodic splendor and psychological symphony created by the prepared word often fade in to the back ground, eclipsed by the relentless sound and disturbances that permeate our lives. However, located within the pages of **Bird Parasite Interactions Ecology Evolution And Behavior** a wonderful literary prize brimming with organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful musician of language, this fascinating masterpiece conducts viewers on an emotional journey, skillfully unraveling the hidden melodies and profound affect resonating within each cautiously crafted phrase. Within the depths with this touching examination, we will discover the book is key harmonies, analyze its enthralling publishing fashion, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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