

EVOLUTIONARY BEHAVIORAL ECOLOGY

EDITED BY

David F. Westneat | Charles W. Fox



Evolutionary Behavioral Ecology

C. J. Barnard



Evolutionary Behavioral Ecology:

Evolutionary Behavioral Ecology David Westneat, Charles W. Fox, 2010-04 Evolutionary Behavioral Ecology presents a comprehensive treatment of the evolutionary and ecological processes shaping behavior across a wide array of organisms and a diverse set of behaviors and is suitable as a graduate level text and as a sourcebook for professional scientists

Evolutionary Ecology and Human Behavior Eric Alden Smith, 2017-09-29 required reading for anyone interested in the economy ecology and demography of human societies American Journal of Human Biology This excellent book can serve both as a text book and as a scholarly reference American Scientist

An Introduction to Behavioural Ecology Nicholas B. Davies, John R. Krebs, 2009-07-17 The third edition of this successful textbook looks again at the influence of natural selection on behavior an animal's struggle to survive by exploiting resources avoiding predators and maximizing reproductive success In this edition new examples are introduced throughout many illustrated with full color photographs In addition important new topics are added including the latest techniques of comparative analysis the theory and application of DNA

fingerprinting techniques extensive new discussion on brood parasite host coevolution the latest ideas on sexual selection in relation to disease resistance and a new section on the intentionality of communication Written in the lucid style for which these two authors are renowned the text is enhanced by boxed sections illustrating important concepts and new marginal notes that guide the reader through the text This book will be essential reading for students taking courses in behavioral ecology The leading introductory text from the two most prominent workers in the field Second colour in the text New section of four colour plates Boxed sections to illustrate difficult and important points New larger format with marginal notes to guide the reader through the text Selected further reading at the end of each chapter

Behavioural Ecology John R. Krebs, Nicholas B. Davies, 2009-07-17 Intended for graduate and upper level undergraduate courses in behavioural ecology where students are already familiar with the basic ideas this book continues to define the subject A completely new set of contributions has been brought together once more to take account of the many exciting new developments in the field Each chapter presents a balanced view of the subject integrating a clear exposition of the theory with a critical discussion of how predictions have been tested by experiments and comparative studies In addition the book points to unreconciled issues and possible future developments Edited by two of the most highly regarded experts in the field this new volume

contains contributions from an international authorship and continues the tradition of clarity and accessibility established by the three previous editions The latest edition of a classic in behavioural ecology Divided into three sections Mechanisms and Individual Behaviour From Individual Behaviour to Social Systems and Life Histories Phylogenies and Populations

Contributions from the world's leading researchers

Behavioral Mechanisms in Evolutionary Ecology Leslie Real, 1994-11-30 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 Behavioral Mechanisms in 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

Evolutionary Behavioral Ecology and Psychopathy Janko Mededović, 2023-07-19 This book examines the study of psychopathy using behavioral ecological framework It consists of two parts The first describes the science of human behavioral ecology including Basic concepts of evolutionary biology Evolutionary behavioral sciences Evolutionary ecology of family Evolutionary tradeoffs Life history theory Behavioral ecology of personality Psychopathy and its current evolution The second part of the book describes empirical research on psychopathy in evolutionary ecological context aiming to explore fertility longevity tradeoffs in psychopathy interacting phenotypes in psychopathy and parental effects associated with psychopathy This part contains the discussion of the study's findings which is based on several theoretical concepts described in part one This volume is ideal for psychopathy researchers hoping to bridge the natural and social sciences in a new and innovative way

Evolutionary Behavioral Ecology David Westneat, Charles W. Fox, 2010-04 Evolutionary Behavioral Ecology presents a comprehensive treatment of the evolutionary and ecological processes shaping behavior across a wide array of organisms and a diverse set of behaviors and is suitable as a graduate level text and as a sourcebook for professional scientists

Model Systems in Behavioral Ecology Lee Alan Dugatkin, 2001-10-07 A key way that behavioral ecologists develop general theories of animal behavior is by studying one species or a closely related group of species model systems over a long period This book brings together some of the field's most respected researchers to describe why they chose their systems how they integrate theoretical conceptual and empirical work lessons for the practice of the discipline and potential avenues of future research Their model systems encompass a wide range of animals and behavioral issues from dung flies to sticklebacks dolphins to African wild dogs from foraging to aggression territoriality to reproductive suppression Model Systems in Behavioral Ecology offers an unprecedented systems focus and revealing insights into the confluence of personal curiosity and scientific inquiry It will be an invaluable text for behavioral ecology courses and a helpful overview and a preview of coming developments for advanced researchers The twenty five chapters are divided into four sections insects and arachnids amphibians and reptiles birds and mammals In addition to the editor the contributors include Geoff A Parker Thomas D Seeley Naomi Pierce Kern

Reeve Gerald S Wilkinson Bert H Ildobler and Flavio Roces George W Uetz Michael J Ryan and Gil Rosenthal Judy Stamps H Carl Gerhardt Barry Sinervo Robert Warner Manfred Milinski David F Westneat Alan C Kamil and Alan B Bond Paul Sherman Jerram L Brown Anders Pape M Iler Marc Bekoff Richard C Connor Joan B Silk Christopher Boesch Scott Creel A H Harcourt and Tim Caro and M J Kelly *Animal Behaviour* Peter M. Kappeler, 2022-01-26 This textbook presents all basic principles of animal behaviour in a clear and concise manner and illustrates them with up to date examples Emphasis is placed on behavioural biology as an integrative discipline of organismic biology focusing on the adaptive value of behaviours that facilitate resource access predator avoidance and reproductive success and underlie parental care all within a comprehensive presentation of social complexity This new textbook provides a rich resource for students and teachers from a wide range of life science disciplines **Sensory Ecology, Behaviour, and Evolution** Martin Stevens, 2013-02-08 Throughout their lives animals must complete many tasks including finding food avoiding predators attracting mates and navigating through a complex and dynamic environment Consequently they have evolved a staggering array of sensory organs that are fundamental to survival and reproduction and shape much of their evolution and behaviour Sensory ecology deals with how animals acquire process and use information in their lives and the sensory systems involved It investigates the type of information that is gathered by animals how it is used in a range of behaviours and the evolution of such traits It deals with both mechanistic questions e g how sensory receptors capture information from the environment and how the physical attributes of the environment affect information transmission and functional questions e g the adaptive significance of the information used by the animal to make a decision Recent research has dealt more explicitly with how sensory systems are involved with and even drive evolutionary change including the formation of new species Sensory Ecology Behaviour and Evolution provides a broad introduction to sensory ecology across a wide range of taxonomic groups covering all the various sensory modalities e g sound visual chemical magnetic and electric relating to diverse areas spanning anti predator strategies foraging mate choice navigation and more with the aim being to illustrate key principles and differences This accessible textbook is suitable for senior undergraduates graduate students and professional academics taking courses or conducting research in sensory ecology biology neuroethology behavioural and evolutionary ecology communication and signalling It will also be of relevance and use to psychologists interested in sensory information and behaviour Animal Behavior: Mechanisms, Ecology, Evolution Lee C. Drickamer, Stephen H. Vessey, Elizabeth Jakob, 2001-07-17 Designed for a one semester introductory course in Animal Behavior Animal behavior is a broad discipline with investigators and contributions from diverse perspectives including anthropology comparative psychology ecology ethology physiology and zoology The authors goal in this textbook is to use evolutionary principles as a unifying theme to provide students exposure to a number of approaches to the field of animal behavior They also demonstrate that the varied perspectives used to study behavior are complementary and often integrated they are not mutually exclusive The subtitle Mechanisms Ecology and

Evolution reflects the broad themes that dominate the book *Animal Behaviour* C. J. Barnard, 2012-12-06 The study of animal behaviour particularly from evolutionary and ecological viewpoints has been one of the major growing points in biology over the last 10 to 15 years The degree of quantitative rigour in theoretical observational and experimental approaches to behaviour has increased dramatically As more of the rapidly growing research literature becomes a basic requirement for students reading animal behaviour at undergraduate level there is a need for a readily comprehensible text covering all major aspects of behaviour study to accompany their courses This book based on my first second and third year undergraduate lectures at the University of Nottingham is designed to meet that requirement The book begins with a discussion of the physiological and anatomical bases of behaviour the relationship between nervous system structure and function and behaviour hormonal effects on behaviour biological clocks perceptual mechanisms and stimulus filtering This leads to a consideration in Chapter 2 of how the animal integrates internal and external stimuli in making decisions about its behaviour and the way natural selection has shaped decision making processes and the organisation of motivation The first two chapters therefore deal with the instigation or causation of behaviour within the animal Chapters 3 and 4 deal with developmental aspects of behaviour Chapter 3 discusses behaviour genetics including the relationship between specific genes and behaviour the heritability of behaviour patterns the site of gene action in the body and the evolutionary consequences of a genetic basis to behaviour Conceptual Breakthroughs in Ethology and Animal Behavior Michael D. Breed, 2017-01-25 *Conceptual Breakthroughs in Ethology and Animal Behavior* highlights through concise summaries the most important discoveries and scientific revolutions in animal behavior These are assessed for their relative impact on the field and their significance to the forward motion of the science of animal behavior Eighty short essays capture the moment when a new concept emerged or a publication signaled a paradigm shift How the new understanding came about is explained and any continuing controversy or scientific conversation on the issue is highlighted Behavior is a rich and varied field drawing on genetics evolution physiology and ecology to inform its principles and this book embraces the wealth of knowledge that comes from the unification of these fields around the study of animals in motion The chronological organization of the essays makes this an excellent overview of the history of animal behavior ethology and behavioral ecology The work includes such topics as Darwin's role in shaping the study of animal behavior the logic of animal contests cognition empathy in animals and animal personalities Succinct accounts of new revelations about behavior through scientific investigation and scrutiny reveal the fascinating story of this field Similar to Dr John Avise's *Contemporary Breakthroughs in Evolutionary Genetics* the work is structured into vignettes that describe the conceptual revolution and assess the impact of the conceptual change with a score which ranges from 1 to 10 providing an assessment of the impact of the new findings on contemporary science Features a lively brisk writing style and brief entries to enable easy enjoyable access to this essential information Includes topics that cover the range of behavioral biology from mechanism to behavioral ecology Can also be

used as supplemental material for an undergraduate animal behavior course or as the foundational text for an upper level or graduate discussion course in advanced animal behavior *Comparative Social Evolution* Dustin R. Rubenstein, Patrick Abbot, 2017-04-06 A comparative view of the major features of animal social life and the evolution of cooperative group living

Behavioral Ecology N. B. Davies, J. R. Krebs, 1991 *Animal Personalities* Claudio Carere, Dario Maestripieri, 2013-03-07 Ask anyone who has owned a pet and they'll assure you that yes animals have personalities And science is beginning to agree Researchers have demonstrated that both domesticated and nondomesticated animals from invertebrates to monkeys and apes behave in consistently different ways meeting the criteria for what many define as personality But why the differences and how are personalities shaped by genes and environment How did they evolve The essays in *Animal Personalities* reveal that there is much to learn from our furred and feathered friends The study of animal personality is one of the fastest growing areas of research in behavioral and evolutionary biology Here Claudio Carere and Dario Maestripieri along with a host of scholars from fields as diverse as ecology genetics endocrinology neuroscience and psychology provide a comprehensive overview of the current research on animal personality Grouped into thematic sections chapters approach the topic with empirical and theoretical material and show that to fully understand why personality exists we must consider the evolutionary processes that give rise to personality the ecological correlates of personality differences and the physiological mechanisms underlying personality variation **Cognition, Evolution, and Behavior** Sara J. Shettleworth, 2009-12-01 How do animals perceive the world learn remember search for food or mates and find their way around Do any non human animals count imitate one another use a language or think as we do What use is cognition in nature and how might it have evolved Historically research on such questions has been fragmented between psychology where the emphasis has been on theoretical models and lab experiments and biology where studies focus on evolution and the adaptive use of perception learning and decision making in the field *Cognition Evolution and the Study of Behavior* integrates research from psychology behavioral ecology and ethology in a wide ranging synthesis of theory and research about animal cognition in the broadest sense from species specific adaptations in fish to cognitive mapping in rats and honeybees to theories of mind for chimpanzees As a major contribution to the emerging discipline of comparative cognition the book is an invaluable resource for all students and researchers in psychology zoology behavioral neuroscience It will also interest general readers curious about the details of how and why animals including humans process retain and use information as they do **Cognitive Ecology** Reuven Dukas, 1998-07-06 *Cognitive Ecology* lays the foundations for a field of study that integrates theory and data from evolutionary ecology and cognitive science to investigate how animal interactions with natural habitats shape cognitive systems and how constraints imposed on nervous systems limit or bias animal behavior Using critical literature reviews and theoretical models the contributors provide new insights and raise novel questions about the adaptive design of specific brain capacities and about optimal behavior subject to the computational capabilities of brains

Evolutionary Ecology of Social and Sexual Systems J. Emmett Duffy, Martin Thiel, 2007-09-06 Understanding of animal social and sexual evolution has seen a renaissance in recent years with discoveries of frequent infidelity in apparently monogamous species the importance of sperm competition active female mate choice and eusocial behavior in animals outside the traditional social insect groups Each of these findings has raised new questions and suggested new answers about the evolution of behavioral interactions among animals This volume synthesizes recent research on the sexual and social biology of the Crustacea one of the dominant invertebrate groups on earth Its staggering diversity includes ecologically important inhabitants of nearly every environment from deep sea trenches through headwater streams to desert soils The wide range of crustacean phenotypes and environments is accompanied by a comparable diversity of behavioral and social systems including the elaborate courtship and wildly exaggerated morphologies of fiddler crabs the mysterious queuing behavior of migrating spiny lobsters and even eusociality in coral reef shrimps This diversity makes crustaceans particularly valuable for exploring the comparative evolution of sexual and social systems Despite exciting recent advances however general recognition of the value of Crustacea as models has lagged behind that of the better studied insects and vertebrates This book synthesizes the state of the field in crustacean behavior and sociobiology and places it in a conceptually based comparative framework that will be valuable to active researchers and students in animal behavior ecology and evolutionary biology It brings together a group of internationally recognized and rising experts in fields related to crustacean behavioral ecology ranging from physiology and functional morphology through mating and social behavior to ecology and phylogeny Each chapter makes connections to other non crustacean taxa and the volume closes with a summary section that synthesizes the contributions discusses anthropogenic impacts highlights unanswered questions and provides a vision for profitable future research

Primate Behavioral Ecology Karen B. Strier, 2015-07-22 Primate Behavioral Ecology described as an engaging cutting edge exposition incorporates exciting new discoveries and the most up to date approaches in its introduction to the field and its applications of behavioral ecology to primate conservation This unique comprehensive single authored text integrates the basics of evolutionary ecological and demographic perspectives with contemporary noninvasive molecular and hormonal techniques to understand how different primates behave and the significance of these insights for primate conservation Examples are drawn from the classic primate field studies and more recent studies on previously neglected species from across the primate order illustrating the vast behavioral variation that we now know exists and the gaps in our knowledge that future studies will fill

Reviewing **Evolutionary Behavioral Ecology**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Evolutionary Behavioral Ecology**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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