

Behavioral ecology



- Study of the ecological & evolutionary basis for animal behavior
- Study of how natural selection shapes behavior



Animal Behavior Development Ecology Evolution

Leslie Real



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Animal Behavior Robert A. Wallace, 1979-01-01 *Animal Behavior* Robert A. Wallace, 1979 *Animal Behavior* Mark Ridley, 2009-07-01 This classic textbook is a concise introductory guide to the subject of animal behavior. The book is organized by first building the four cornered foundations of the subject then moving higher. In an extremely well organized progression the student is led to an understanding of the essential topics explained in logical self contained units. Each chapter ends with suggestions for further reading. In this second edition the coverage of mechanisms of behavior is much expanded as is the material on evolution and natural selection. The chapter on development includes much of the new work on learning and memory especially song learning in birds. Indeed throughout the book examples are drawn from recent ground breaking research. The latest edition of the textbook of choice in animal behaviour. Extremely well illustrated and including many classic photos by Niko Tinbergen. Uniquely well suited as an introductory text designed for student use with a clear and logical organization founded on self contained units.

Animal Behavior Lee C. Drickamer, Stephen H. Vessey, Doug Meikle, 1996 **Animal Behaviour** Christopher J. Barnard, 2004 This text provides an introduction to the study of behaviour from its basis in the animal's anatomy and physiology to its adaptive value in the environment. Chris Barnard provides comprehensive coverage of the four major levels of enquiry: mechanism, development, function and evolution.

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, 2004 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 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 **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 Animal Behavior Ken Yasukawa, 2014-01-22 Discover why animals do what they do based on their genes physiologies cultures traditions survival and mating advantages and evolutionary histories and find out how studying behavior in the animal world helps us understand human behavior The three volumes of Animal Behavior How and Why Animals Do the Things They Do cover the breadth of the field addressing causation development function and evolution in a wide range of animals from invertebrates to humans Inspired by Nobel laureate Nikolaas Tinbergen's work the first two volumes follow Tinbergen's four classic questions of animal behavior while the third volume supplies integrated examples of Tinbergen's investigative process applied in specific cases Written in an engaging accessible manner ideal for college students as well as general audiences this evidence based collection provides a fascinating tour of animal behaviorists findings such as how animal communication can be truthful or deceitful the deadly serious business behind clashes in the battle of the sexes and how documentation of animal behavior can lead to a deeper understanding of human behavior Each chapter provides both historical background and information about current developments in animal behavior knowledge *Exploring Animal Behavior in Laboratory and Field* Bonnie J. Ploger, Ken Yasukawa, 2002-11-13 Exploring Animal Behavior in Laboratory and Field is designed to provide a variety of exercises that engage students actively in all phases of scientific investigation from formulating research questions through interpreting and presenting final results It attempts to share the collective teaching expertise and experience of members of the Animal Behavior Society with all who are willing to benefit from their wisdom Four types of exercises are presented 1 traditional exercises in which students follow a pre determined protocol to test particular hypotheses explicitly stated in the exercise 2 traditional exercises that can easily be adapted to inquiry based approaches 3 combined pedagogy

exercises that involve both traditional and inquiry approaches and 4 inquiry exercises in which students first brainstorm to generate their own hypotheses then design their own experiments to test their hypotheses Supports a range of pedagogical styles and texts in animal behavior with active learning experiences that engage students Students and instructors benefit from knowledge and experience of members of the Animal Behavior Society Flexibility of design enables students and instructors to tailor the exercises to their needs Can be used to support lab courses that are completely inquiry based as well as independent student research projects in animal behavior Consideration of animal care guidelines provides an excellent way to address and discuss concerns about the use of animals in teaching and research Emphasizes the hypothetico deductive approach that students have difficulty understanding and implementing Supporting materials make additional required texts unnecessary and link study design considerations with real studies

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

Encyclopedia of Animal Behavior, 2009-04-01 The Encyclopedia of Animal Behavior Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior This comprehensive work covers not only the usual topics such as communication learning sexual selection navigation and the history of the field but also emerging topics in cognition animal welfare conservation and applications of animal behavior The large section on animal cognition brings together many of the world's experts on the subject to provide a comprehensive overview of this rapidly developing area Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals farm animals and animals in the wild The key role of animal behavior in conservation biology receives broad attention including chapters on topics such as the effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field In depth coverage of concepts methods and exemplar organisms serves the needs of graduate students and professionals in the field From the use of behavior in assessing the welfare of pigs to the social behavior of insects from animal empathy to bat brains this authoritative

reference with its in depth introductory articles rich array of illustrations interactive cross referenced links and numerous suggested readings can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear accessible writing and is well illustrated including an online video complimenting a wealth of information As an online reference this work will be subject to period updating This ensures that the work always remains current Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior Section editors drawn from around the world represent the best and the brightest among today s behavioral biologists and have recruited a broad range of internationally recognized experts Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities 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 be comes 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 accom pany their courses This book based on my first second and third year under graduate lectures at the University of No ttingham 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 c1ocks perceptual mechanisms and stimulus filtering This leadsto 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

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 ller Marc Bekoff Richard C Connor Joan B Silk Christopher Boesch Scott Creel A H Harcourt and Tim Caro and M J Kelly

Behaviour and Evolution Marion Hall, Tim Halliday, 1998-11-25 This volume examines a variety of aspects of animal behavior and analyzes the underlying relationship between behavior and evolution Studying behavior draws upon the work of scientists from a number of disciplines all seeking to answer the question of why an animal behaves in the way it does The possible answers to this question development survival value evolutionary history and cause and effect are explored in this easy to read introduction to behavior and evolution

The Ecology and Evolution of Animal Behavior Robert A. Wallace, 1973

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 Nonhuman Primates in Biomedical Research, Two Volume Set Christian R. Abee, Keith Mansfield, Suzette D. Tardif, Timothy Morris, 2012-12-31 The 2e of the gold standard text in the field Nonhuman Primates in Biomedical Research provides a comprehensive up to date review of the use of nonhuman primates in biomedical research The publication emphasizes the biology and management diseases and biomedical models for nonhuman primate species most commonly used in research Each chapter contains an extensive list of bibliographic references photographs and graphic illustrations to provide the reader with a thorough review of the subject The Biology and Management volume provides basic information on the natural biology of nonhuman primates and the current state of knowledge regarding captive management The Diseases volume provides thorough reviews of naturally occurring diseases of nonhuman primates with a section on biomedical models reviewing contemporary nonhuman primate models of human diseases Now in four color throughout making the book more visually stimulating to enhance learning and ease of use Fully revised and updated providing researchers with the most comprehensive review of the use of nonhuman primates in biomedical research Addresses commonly used nonhuman primate biomedical models providing researchers with species specific information Advances in the Study of Behavior ,2014-05-16 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 Initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presents theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields

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