

BEHAVIORAL MECHANISMS IN EVOLUTIONARY ECOLOGY

EDITED BY **Leslie A. Real**



Behavioral Mechanisms In Evolutionary Ecology

**Aubrey Manning, Marian Stamp
Dawkins**



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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 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 *Behavioral Mechanisms in Ecology* Douglass H. Morse, 1980 This readable text represents a much needed synthesis of ecological insight into animal behavior The field of behavioral ecology is relatively new having evolved from a combination of classical ethology as developed by Lorenz and Tinbergen and population ecology Now for the first time a single author integrates the vast literature on animal ecology and behavior into a conceptual whole Exploring the theme of resource acquisitions Douglass H Morse combines the comparative approach to biology with models based on evolutionary theory Secondary consequences of sexual selection and other selective pressures are considered in detail Discussion of interspecific interactions and constraints is especially rich as is the treatment of foraging theory kinship theory habitat selection and predator avoidance Perhaps the book's greatest achievement however is its unparalleled ecological and evolutionary analysis of individual differences *Behavioral Mechanisms in Ecology* will meet the teaching and reference needs of an extremely broad audience of professional biologists **Developmental Plasticity and Evolution** Mary Jane West-Eberhard, 2003-03-13 The first comprehensive synthesis on development and evolution it applies to all aspects of development at all levels of organization and in all organisms taking advantage of modern findings on behavior genetics endocrinology molecular biology evolutionary theory and phylogenetics to show the connections between developmental mechanisms and evolutionary change This book solves key problems that have impeded a definitive synthesis in the past It uses new concepts and specific examples to show how to relate environmentally sensitive development to the genetic theory of adaptive evolution and to explain major patterns of change In this book development includes not only embryology and the ontogeny of morphology sometimes portrayed inadequately as governed by regulatory genes but also behavioral development and physiological adaptation where plasticity is mediated by genetically complex mechanisms like hormones and learning The book shows how the universal qualities of phenotypes modular organization and plasticity facilitate both integration and change Here you will learn why it is wrong to describe organisms as genetically programmed why environmental induction is likely to be more important in evolution than random mutation and why it is crucial to consider both selection and developmental mechanism in explanations of adaptive evolution This book satisfies the need for a truly general book on development plasticity and evolution that applies to living organisms in all of their life stages and environments Using an immense compendium of examples on many kinds of organisms from viruses and bacteria to higher plants and animals it shows how the phenotype is reorganized during evolution to produce novelties and how alternative phenotypes occupy a pivotal role as a phase of evolution that fosters diversification and speeds change The arguments of this book call for a new view of the major themes of evolutionary biology as shown in chapters on gradualism homology environmental induction speciation radiation macroevolution punctuation and the maintenance of sex No other treatment of development and evolution since Darwin's offers such a comprehensive and critical discussion of the relevant issues *Developmental Plasticity and Evolution* is designed for biologists interested in the development and evolution of behavior life

history patterns ecology physiology morphology and speciation It will also appeal to evolutionary paleontologists anthropologists psychologists and teachers of general biology **On the Move** Sue Boinski,Paul A. Garber,2000-05-15 Examines social cognitive and ecological processes that underlie patterns and strategies of group travel Chapters discuss how factors such as group size resource distribution and costs of travel affect individual and group exploitation of the environment Most chapters focus on field studies of human and nonhuman primate groups from squirrel monkeys to Turkana pastoralists Chapters on other species provide a broad taxonomic perspective Copyright Libri GmbH All rights reserved

Animal Communication Theory Ulrich Stegmann,2013-05-02 A valuable overview and analysis of foundational concepts in animal behaviour studies including information meaning communication signals and cues Its comprehensive introduction and numerous illustrations will make it accessible to students and researchers from a wide variety of academic backgrounds ranging from ethology and evolutionary biology to philosophy of mind *An Introduction to Animal Behaviour* Aubrey Manning,Marian Stamp Dawkins,2012-03-26 Wolves excitedly greet each other as members of the pack come together a bumble bee uses its long tongue to reach the nectar at the base of a foxglove flower a mongoose swiftly and deftly bites its prey to death young cheetahs rest quietly together very close to sleep Now in full colour this revised and updated edition of Manning and Dawkins classic text provides a beautifully written introduction to the fundamentals of animal behaviour Tinbergen s four questions of causation evolution development and function form the fundamental framework of the text illustrated with fascinating examples of complex behavioural mechanisms The authors provide accounts of all levels of behaviour from the nerve cell to that of the population The strengths of An Introduction to Animal Behaviour as a textbook include its clear explanations and concise readable text and the enthusiasm of the authors for their subject *Rodent Societies* Jerry O. Wolff,Paul W. Sherman,2008-09-15 Rodent Societies synthesizes and integrates the current state of knowledge about the social behavior of rodents providing ecological and evolutionary contexts for understanding their societies and highlighting emerging conservation and management strategies to preserve them It begins with a summary of the evolution phylogeny and biogeography of social and nonsocial rodents providing a historical basis for comparative analyses Subsequent sections focus on group living rodents and characterize their reproductive behaviors life histories and population ecology genetics neuroendocrine mechanisms behavioral development cognitive processes communication mechanisms cooperative and uncooperative behaviors antipredator strategies comparative socioecology diseases and conservation Using the highly diverse and well studied Rodentia as model systems to integrate a variety of research approaches and evolutionary theory into a unifying framework Rodent Societies will appeal to a wide range of disciplines both as a compendium of current research and as a stimulus for future collaborative and interdisciplinary investigations

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