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Animal Behaviour

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The Genesis of Animal Play

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The Cognitive Animal

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Neural Networks and Animal Behavior

The Behavior of Animals

Animal Play

The Evolution of Animal Communication

Sensory Ecology, Behaviour, and Evolution

Animal Behavior

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Cooperation among Animals

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OMB No. 1363059521042 edited by

BOWERS ALYSON

Animal Behavior John Wiley & Sons

Gull chicks beg for food from their parents. Peacocks spread their tails to attract potential mates. Meerkats alert family members of the approach of predators. But are these--and other animals--sometimes dishonest? That's what William Searcy and Stephen Nowicki ask in *The Evolution of Animal Communication*. They take on the fascinating yet perplexing question of the dependability of animal signaling systems. The book probes such phenomena as the begging of nesting birds, alarm calls in squirrels and primates, carotenoid coloration in fish and birds, the calls of frogs and toads, and weapon displays in crustaceans. Do these signals convey accurate information about the signaler, its future behavior, or its environment? Or do they mislead receivers in a way that benefits the signaler? For example, is the begging chick really hungry as its cries indicate or is it lobbying to get more food than its brothers and sisters? Searcy and Nowicki take on these and other questions by developing clear definitions of key issues, by reviewing the most relevant empirical data and game theory models available, and by asking how well theory matches data. They find that animal communication is largely reliable--but that this basic reliability also allows the clever deceiver to flourish. Well researched and clearly written, their book provides new insight into animal communication, behavior, and evolution.

Animal Behaviour Sinauer Associates, Incorporated

An evolutionary approach to animal behavior. The diversity of behavior. The genetics of behavior. The development of behavior. Nerve cells and behavior. The organization of behavior. The evolution of behavior: historical pathways. The evolution of adaptations. The evolution of communication. Finding a place to live. Adaptive feeding behavior. Coping with predators adaptively. Male and female reproductive tactics. The ecology of mating systems. Caring for offspring. The ecology of social behavior. An evolutionary approach to human behavior.

Carnivore Behavior, Ecology, and Evolution Cambridge University Press

How does behaviour affect biological invasions? Can it explain why some animals are such successful invaders? With contributions from experts in the field, and covering a broad range of animals, this book examines the role of behaviour in biological invasions from the point of view of both invaders and native species. The chapters cover theoretical aspects, particularly relevant behaviours and well-documented case studies, showing that behaviour is critical to the success, and ecological and socio-economic impact, of invasive species. Its insights suggest methods to prevent and mitigate those impacts, and offer unique opportunities to understand the adaptive role of behaviour. Offering a comprehensive overview of current understanding on the subject, the book is intended for biological invasion researchers and behavioural ecologists, as well as ecologists and evolutionary biologists interested in how

organisms deal with anthropogenic environmental changes such as climate change and habitat loss.

The Genesis of Animal Play Oxford University Press

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 1-10, 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.

Principles of Animal Behavior, 4th Edition W. W. Norton & Company

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.

THE COGNITIVE ANIMAL

Open Book Publishers

The mammalian order Carnivora is characterized by an incredible range of morphological, ecological, and behavioral variation. Carnivores can be as small as the 100-gram least weasel or as large as the 800-kilogram polar bear. Their reproductive rate can vary from one offspring every five years, as with some black bears, to three litters a year, as with the dwarf mongoose. Group sizes can be traced along a wide continuum, from the solitary ermine to the monogamous golden jackal to the large extended packs of as many as 80 spotted hyenas. Until recently the general habits of most wild carnivore species were inadequately understood. In the last decade, however, improved technologies, including the use of radiotelemetry and night-vision scopes, have led to many important discoveries. This book is at once a critical summary and an evaluation of current research on carnivores. A

worthy successor to R.F. Ewer's monumental volume, *The Carnivores* (Cornell University Press), it is the work of 30 leading carnivore biologists, who here assemble comparative data on the basic anatomical, behavioral, ecological, physiological, reproductive, and evolutionary characteristics of this group. After a general introduction to the Carnivora, the volume is divided in three parts, each of which begins with a brief introduction outlining its main themes. Part I, Behavior, covers acoustic and olfactory communication, behavioral development, behavioral ecology of canids and hyaenids, modes of solitary living, and group living. In Part II, Ecology, topics include feeding ecology of the giant panda and Asiatic black bear, adaptations for aquatic living, ecological constraints on predation in felids, consequences of small size in mustelids, rate of basal metabolism and food habits, and reproductive output. Part III, Evolution, deals with the morphological approaches to phylogeny, and the fossil record. An appendix presents a complete classification of the Carnivora, including topics of continuing controversy. Highlighting recent developments in the study of the Carnivora and areas for further research, this broad synthesis will be of great value of students and researchers in animal behavior, behavioral ecology, wildlife ecology, mammalogy, paleontology, systematics, and evolution theory. It will also encourage realistic conservation programs to manage rapidly diminishing populations and will elucidate particular features of the carnivores for nonspecialist readers.

Animal Behaviour John Wiley & Sons

Animal Play, first published in 1998, is an interdisciplinary study of play in animals and humans.

ESSENTIALS OF ANIMAL BEHAVIOUR

Academic Press

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.

Academic Press

Despite the depiction of nature "red in tooth and claw,"

cooperation is actually widespread in the animal kingdom.

Various types of cooperative behaviors have been documented in everything from insects to primates, and in every imaginable ecological scenario. Yet why animals cooperate is still a hotly contested question in literature on evolution and animal behavior. This book examines the history surrounding the study of cooperation, and proceeds to examine the conceptual, theoretical and empirical work on this fascinating subject. Early on, it outlines the four different categories of cooperation -- reciprocal altruism, kinship, group-selected cooperation and byproduct mutualism -- and ties these categories together in a single framework called the Cooperator's Dilemma. Hundreds of studies on cooperation in insects, fish, birds and mammals are reviewed. Cooperation in this wide array of taxa includes, but is not limited to, cooperative hunting, anti-predator behavior, foraging, sexual coalitions, grooming, helpers-at-the nest, territoriality, 'policing' behavior and group thermoregulation. Each example outlined is tied back to the theoretical framework developed early on, whenever the data allows. Future experiments designed to further elucidate a particular type of cooperation are provided throughout the book.

PHEROMONES AND ANIMAL BEHAVIOR

OUP Oxford

This book explains how animals use chemical communication, emphasising the evolutionary context and covering fields from ecology to neuroscience and chemistry.

Essential Animal Behavior MIT Press

Animal Behavior covers the broad sweep of animal behavior from its neurological underpinnings to the importance of behavior in conservation. The authors, Michael D. Breed and Janice Moore, bring almost 60 years of combined experience as university professors to this textbook, much of that teaching animal behavior. An entire chapter is devoted to the vibrant new field of behavior and conservation, including topics such as social behavior and the relationship between parasites, pathogens, and behavior. Thoughtful coverage has also been given to foraging behavior, mating and parenting behavior, anti-predator behavior and learning. This text addresses the physiological foundations of behavior in a way that is both accessible and inviting. Each chapter begins with learning objectives and concludes with thought-provoking questions. Additionally, special terms and definitions are highlighted throughout. The book provides a rich resource for students (and professors) from a wide range of life science disciplines. Provides a solid background in the neurophysiological and endocrinological bases of animal behavior as well as exceptionally strong coverage of social behavior. Includes behavior and homeostatic mechanisms, behavior and conservation, and behavioral aspects of disease. Highlights aspects of behavior that relate to domestic animals in particular. Lab manual with fully developed and tested laboratory exercises available for courses that have labs

(<http://www.elsevierdirect.com/product.jsp?isbn=9780123725820>) Companion site for faculty and students to enhance their learning experience at:

www.elsevierdirect.com/companions/9780123725813

The Evolution of Social Behaviour Cambridge University Press

The Behavior of Animals An updated view of animal behavior studies, featuring global experts. The Behavior of Animals, Second Edition provides a broad overview of the current state of animal behavior studies with contributions from international experts. This edition includes new chapters on hormones and behavior, individuality, and human evolution. All chapters have been thoroughly revised and updated, and are supported by color illustrations, informative callouts, and accessible presentation of technical information. Provides an introduction to the study of animal behavior. Looks at an extensive scope of topics- from perception, motivation and emotion, biological rhythms, and animal learning to animal cognition, communication, mate choice, and individuality. Explores the evolution of animal behavior including a critical evaluation of the assumption that human beings can be studied as if they were any other animal species. Students will benefit from an updated textbook in which a variety of contributors provide their expertise and global perspective in specialized areas

Biological Invasions and Animal Behaviour Animal Behavior

The role of parents in shaping the characters of their children, the causes of violence and crime, and the roots of personal unhappiness are central to humanity. Like so many fundamental questions about human existence, these issues all relate to behavioural development. In this lucid and accessible book, eminent biologist Professor Sir Patrick Bateson suggests that the nature/nurture dichotomy we often use to think about questions of development in both humans and animals is misleading. Instead, he argues that we should pay attention to whole systems, rather than to simple causes, when trying to understand

the complexity of development. In his wide-ranging approach Bateson discusses why so much behaviour appears to be well-designed. He explores issues such as 'imprinting' and its importance to the attachment of offspring to their parents; the mutual benefits that characterise communication between parent and offspring; the importance of play in learning how to choose and control the optimal conditions in which to thrive; and the vital function of adaptability in the interplay between development and evolution. Bateson disputes the idea that a simple link can be found between genetics and behaviour. What an individual human or animal does in its life depends on the reciprocal nature of its relationships with the world about it. This knowledge also points to ways in which an animal's own behaviour can provide the variation that influences the subsequent course of evolution. This has relevance not only for our scientific approaches to the systems of development and evolution, but also on how humans change institutional rules that have become dysfunctional, or design public health measures when mismatches occur between themselves and their environments. It affects how we think about ourselves and our own capacity for change.

NEURAL NETWORKS AND ANIMAL BEHAVIOR

Academic Press

Principles of Animal Behavior has long been considered the most current and engaging introduction to animal behavior. The Third Edition is now also the most comprehensive and balanced in its approach to the theoretical framework behind how biologists study behavior.

The Behavior of Animals Academic Press

How can the stunning diversity of social systems and behaviours seen in nature be explained? Drawing on social evolution theory, experimental evidence and studies conducted in the field, this book outlines the fundamental principles of social evolution underlying this phenomenal richness. To succeed in the competition for resources, organisms may either 'race' to be quicker than others, 'fight' for privileged access, or 'share' their efforts and gains. The authors show how the ecology and intrinsic attributes of organisms select for each of these strategies, and how a handful of straightforward concepts explain the evolution of successful decision rules in behavioural interactions, whether among members of the same or different species. With a broad focus ranging from microorganisms to humans, this is the first book to provide students and researchers with a comprehensive account of the evolution of sociality by natural selection.

Animal Play University of Chicago Press

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

THE EVOLUTION OF ANIMAL COMMUNICATION

McGraw-Hill Science, Engineering & Mathematics

A fascinating exploration of the language we use for animal

behavior.

Sensory Ecology, Behaviour, and Evolution Cambridge University Press

Darwin famously described special difficulties in explaining social evolution in insects. More than a century later, the evolution of sociality - defined broadly as cooperative group living - remains one of the most intriguing problems in biology. Providing a unique perspective on the study of social evolution, this volume synthesizes the features of animal social life across the principle taxonomic groups in which sociality has evolved. The chapters explore sociality in a range of species, from ants to primates, highlighting key natural and life history data and providing a comparative view across animal societies. In establishing a single framework for a common, trait-based approach towards social synthesis, this volume will enable graduate students and investigators new to the field to systematically compare taxonomic groups and reinvigorate comparative approaches to studying animal social evolution.

Animal Behavior Cambridge University Press

Essential Animal Behavior provides a comprehensive introduction to all areas of the subject: from the genetic and neurobiological control of behavior to the learning, development,

and function of behavior in an evolutionary context. Social behaviour is also covered throughout the text. Written in a concise and engaging style, this new book: includes examples from both marine and terrestrial environments around the world places current research alongside classic examples, and puts the study of animal behavior in an applied context, emphasizing the implications for animal welfare and animal conservation. Carefully designed to meet the needs of students coming to the subject for the first time, the book includes the following features: key concept boxes Focus on boxes chapter summaries guided reading to aid revision and further study case studies and boxed examples that reinforce essential points, and questions for discussion. This book is essential reading for degree-level students following modular programs in biology, zoology, marine biology, and psychology. An Instructor manual CD-ROM for this title is available. Please contact our Higher Education team at HigherEducation@wiley.com for more information.

Animal Personalities Cambridge University Press

This up-to-date review examines key areas of animal behaviour, including communication, cognition, conflict, cooperation, sexual selection and behavioural variation. Various tests are covered, including recent empirical examples.

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