

ANIMALS: BEHAVIOR

Big Picture

Animal behavior includes all the various ways animals interact with each other and their environment.

The root of certain behavioral patterns has sparked a debate over nature versus nurture, where natural behavior is caused by an animal's genome and nurtured behavior is a result of an animal's environment. Both factors, however, play a key role in innate and learned behavioral patterns. Types of behavior for animals include cooperation, communication, aggression, courtship, and parenting.

Key Terms

Ethology: The study of animal behavior.

Stimulus: The trigger for a behavior.

Nature-Nurture Debate: The debate over whether certain behavior is controlled by genes (nature) or is a result of the organism's environment (nurture).

Innate Behavior: Behavioral pattern that is controlled almost exclusively by genes and occur instinctively in animals without practice or instruction.

Reflex: An involuntary and consistent behavioral pattern that is in response to a stimulus.

Learning: A change in behavior that is in response to an experience.

Social Animal: An animal that lives in a society.

Society: A group of animals that live and work together.

Cooperation: When animals live and work together for the benefit of the entire society.

Circadian Rhythm: Cyclic changes in behavior that occur during a 24-hour cycle.

Aggression: Behavior that intends to cause harm or pain on another animal. Aggression could be an action or a threat of action.

Mating: When a male and female of the same species come together to reproduce.

Animal Behavior

Ethology studies animal behavior and tries to determine the **stimulus** or cause for a behavior, as well as the reasons why and the ways the behavior developed.

- Trying to answer these questions resulted in the **nature-nurture debate**.
 - Typically, behavior results from a combination of genetic and environmental factors.
- Behaviors that increase fitness are more likely to become common over time.

Sometimes an organism may behave in a way that endangers itself but helps the survival of its kins (close relatives).

- For example, an animal may alert its kins to a predator nearby by making warning sounds. These sounds will make it easier for the predator to find the animal, but its kins will have a better chance of escaping. This is called kin selection.

Innate Behavior

All members of a species have some **innate behaviors** that occur instinctively. The animal can perform a behavioral pattern the first time it comes across the stimulus.

- Usually involves basic life functions - finding food, caring for offspring.
- In humans, only **reflexes** are innate behaviors
 - Example: a baby will try to grab an object placed in its palm, but the baby does not actually control this reaction

Learned Behavior

- **Learning** causes behavior changes based on experience and is not something the organism is born with
- Humans and some animals are capable of **insight learning**, which is based on past experience and reasoning

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Play (School)

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Insight learning (Chimp)

Biology Guide 51 Animal Behavior Answers

Brian Hare, Vanessa Woods



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Study Guide for Psychology David G. Myers, Richard O. Straub, 2009-04-03 Longtime Myers collaborator Richard Straub provides an updated study guide for the new edition **Scientific Foundations of Zoos and Aquariums** Allison B. Kaufman, Meredith J. Bashaw, Terry L. Maple, 2019-01-03 In the modern era zoos and aquariums fight species extinction educate communities and advance learning of animal behaviour This book features first person stories and scientific reviews to explore ground breaking projects run by these institutions Large scale conservation initiatives that benefit multiple species are detailed in the first section including critical habitat protection evidence based techniques to grow animal populations and the design of community education projects The second section documents how zoos use science to improve the health and welfare of animals in captivity and make difficult management decisions The section on saving species includes personal tales of efforts to preserve wild populations through rehabilitation captive breeding reintroduction and public outreach The concluding section details scientific discoveries about animals that would have been impossible without the support of zoos and aquariums The book is for animal scientists zoo professionals educators and researchers worldwide as well as students of zookeeping and conservation *The Promise of Contemporary Primatology* Erin P. Riley, 2019-08-19 This book argues for a contemporary primatology that recognizes humans as integral components in the ecologies of primates This contemporary primatology uses a broadened theoretical lens and methodological toolkit to study primate behavior and ecology in increasingly anthropogenic contexts and seeks points of intersection and spaces for collaborative exchange across the natural sciences social sciences and humanities The book begins by exploring the American tradition of anthropology providing historical and disciplinary context for the emergence of field primatology and how it became a part of this tradition It then examines how primatology transformed into a field dominated by evolutionary approaches and highlights how the increasingly anthropogenic environments in which primates live present opportunities to understand primate adaptability at work In doing so it explores how an extended evolutionary approach can help explain behavioral variation in these contemporary environments Focus is then given to the ethnoprimateological approach a contemporary approach that provides a pluralistic framework drawing from the natural and social sciences and humanities needed to study human primate coexistence in the Anthropocene Finally the book considers how such a crossing of disciplines can inform primate conservation in the future An important interdisciplinary reassessment this book will be of significant interest to primatologists biological anthropologists and scholars of anthropology more generally as well as evolutionary and conservation biologists Campbell Biology Australian and New Zealand Edition Jane B. Reece, Noel Meyers, Lisa A. Urry, Michael L. Cain, Steven A. Wasserman, Peter V. Minorsky, 2015-05-20 Over nine successful editions CAMPBELL BIOLOGY has been recognised as the world s leading introductory biology textbook The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline It is the

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What a Fish Knows Jonathan Balcombe, 2024-09-04 The New York Times bestselling exploration of the world from a piscine perspective makes a persuasive case that what fish know is quite a lot Elizabeth Kolbert The New York Review of Books Do fishes think Do they really have three second memories And can they recognize the humans who peer back at them from above the surface of the water In What a Fish Knows ethologist Jonathan Balcombe addresses these questions and more revealing the surprising capabilities of fishes Upending our assumptions about fishes Balcombe portrays them not as unfeeling dead eyed feeding machines but as sentient aware social and even Machiavellian in other words much like us What a Fish Knows draws on the latest science to present a fresh look at these remarkable creatures Fishes conduct elaborate courtship rituals and develop lifelong bonds with shoalmates They also plan hunt cooperatively use tools curry favor deceive one another and punish wrongdoers Highlighting breakthrough discoveries from around the world and pondering his own encounters with fishes Balcombe examines the fascinating means by which fishes gain knowledge of the places they inhabit from shallow tide pools to the deepest reaches of the ocean Teeming with insights and exciting discoveries What a Fish Knows will forever change how we see our aquatic cousins the pet goldfish included Longlisted for the PEN E O Wilson Literary Science Writing Award Balcombe vividly shows that fish have feelings and deserve consideration and protection like other sentient beings The Dalai Lama An exhaustively researched and elegantly written argument for the moral claims of ichthyofauna Nathan Heller The New Yorker Engrossing Nature With the vivacious energy of a cracking good storyteller Balcombe makes a convincing case Publishers Weekly

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appalling amount of wild collection continues In addition to discussing parrot behavior and biology Matt Cameron reveals the truth about the trade in wild parrots and explains what each of us can do to help save native populations Whether you are a parrot owner birder ornithologist or curious naturalist you will find that Cameron asks and fully answers every question you have about these incredible birds

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