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Encyclopedia of Evolution

Oxford University Press

This handbook lays out the science behind how animals think, remember, create, calculate, and remember. It provides concise overviews on major areas of study such as animal communication and language, memory and recall, social cognition, social learning and teaching, numerical and quantitative abilities, as well as innovation and problem solving. The chapters also explore more nuanced topics in greater detail, showing how the research was conducted and how it can be used for further study. The authors range from academics working in renowned university departments to those from research institutions and practitioners in zoos. The volume encompasses a wide variety of species, ensuring the breadth of the field is explored. Molecular Ecology NSTA Press Ecology is in a challenging state as a scientific discipline. While some theoretical ecologists are attempting to build a definition of ecology from first principles, many others are questioning even the feasibility of a general and

universal theory. At the same time, it is increasingly important that ecology is accurately and functionally defined for a generation of researchers tackling escalating environmental problems in the face of doubt and disagreement. The authors of Theory-Based Ecology have written a robust, modern, and mathematically sound theory of ecology, maintaining a strong link between empirical data, models, and theory. It is firmly based in Darwinian thought, since it was Darwin who first revealed the ecological principles of the origin of species, and gave the evolution of diversity a process-based, mechanistic explanation. The authors base their synthetic theory of Darwinian ecology on seven key principles: exponential growth, growth regulation, inherited individual differences, finiteness and stochasticity, competitive exclusion, robust coexistence, and constraints and trade-offs. Within this solid conceptual framework, they integrate classic and actual empirical knowledge from ecology and evolutionary biology,

clarifying methodological and mathematical detail in clear and helpful text boxes. A wealth of illustrated examples pertaining to different organisational levels (alleles, clones and species) helps to explain how the principles operate. This is an invaluable resource for graduate level students as well as professional researchers in the fields of ecology, genetics, evolutionary ecology, and mathematical biology.

The "God" Part of the Brain John Wiley & Sons

This work contains both contemporary research findings and historical experimental evidence. It includes the topic animal awareness, and there is requisite background material on genetics and other basic molecular topics.

Interaction Design John Wiley & Sons

Cooperative behaviour has been one of the enigmas of evolutionary theory. This book examines the many facets of cooperative

behaviour in primates and humans. It bridges the gap between parallel research in primatology and studies of humans, and highlights both common principles and aspects of human uniqueness, with respect to cooperative behaviour.

Uncovering Student Ideas in Science: 25 formative assessment probes
Oxford University Press, USA

Evolutionary science is not only one of the greatest breakthroughs of modern science, but also one of the most controversial. Perhaps more than any other scientific area, evolutionary science has caused us all to question what we are, where we came from, and how we relate to the rest of the universe. Encyclopedia of Evolution contains more than 200 entries that span modern evolutionary science and the history of its development. This comprehensive volume clarifies many common misconceptions about evolution. For example, many people have grown up being told that the fossil record does not demonstrate an evolutionary pattern, and that there are many missing links. In fact, most of these missing links have been found, and their modern

representatives are often still alive today. The biographical entries represent evolutionary scientists within the United States who have had and continue to have a major impact on the broad outline of evolutionary science. The biographies chosen reflect the viewpoints of scientists working within the United States. Five essays that explore interesting questions resulting from studies in evolutionary science are included as well. The appendix consists of a summary of Charles Darwin's Origin of Species, which is widely considered to be the foundational work of evolutionary science and one of the most important books in human history. The five essays include: How much do genes control human behavior? What are the ghosts of evolution? Can an evolutionary scientist be religious? Why do humans die? Are humans alone in the universe

The Cambridge Handbook of Evolutionary Perspectives on Human Behavior OUP Oxford

Life is produced by the interplay of water and biomolecules. This

book deals with the physicochemical aspects of such life phenomena produced by water and biomolecules, and addresses topics including "Protein Dynamics and Functions", "Protein and DNA Folding", and "Protein Amyloidosis". All sections have been written by internationally recognized front-line researchers. The idea for this book was born at the 5th International Symposium "Water and Biomolecules", held in Nara city, Japan, in 2008.

Nursing Care of Adults L IUCN

"This is the second issue in the Global Re-introduction Perspectives series and has been produced in the same standardized format as the previous one. The case-studies are arranged in the following order: Introduction, Goals, Success Indicators, Project Summary, Major Difficulties Faced, Major Lessons Learned, Success of Project with reasons for success or failure. For this second issue we received a total of 72 case-studies compared to 62 in the last issue. These case studies cover the following taxa as follows: invertebrates (9),

fish (6), amphibians (5), reptiles (7), birds (13), mammals (20) and plants (12) ... We hope the information presented in this book will provide a broad global perspective on challenges facing re-introduction projects trying to restore biodiversity"--Pritpal S. Soorae.

Honeybee Democracy
Oxford University Press on Demand

The threespine stickleback is a small fish of temperate coastal and fresh waters that exhibits extraordinary phenotypic diversity. Benefiting from its amenability to observation in the field and manipulation in the laboratory, Niko Tinbergen pioneered the threespine stickleback's use in behavioral studies and established it as a model system in ethology. This up-to-date volume incorporates reviews from active researchers who use studies of the fish to address a broad variety of evolutionary issues, including optimal foraging, armor variation, speciation, and the endocrine basis

for correlated behavioral characters. The work demonstrates the value of viewing the biology of a single organism simultaneously from multiple perspectives. Students and researchers in ecology, evolution, animal behavior, and vertebrate zoology will find much of interest in this useful book.

The Cambridge Handbook of Animal Cognition Benjamin-Cummings Publishing Company

In 900 text pages, Campbell Biology in Focus emphasizes the essential content and scientific skills needed for success in the college introductory course for biology majors. Each unit streamlines content to best fit the needs of instructors and students, based on surveys, curriculum initiatives, reviews, discussions with hundreds of biology professors, and careful analyses of course syllabi. Every chapter includes a Scientific Skills Exercise that builds skills in graphing, interpreting data, experimental design, and math—skills biology majors need in order to

succeed in their upper-level courses. This briefer book upholds the Campbell hallmark standards of accuracy, clarity, and pedagogical innovation.

The Death and Life of the Great Lakes Psychology Press

The Certified Nurse Examination Series prepares individuals for licensing and certification conducted by the American Nurses Credentialing Center (ANCC), the National Certification Corporation (NCC), the National League for Nursing (NLN), and other organizations. The Nursing Care of Adults I Passbook® provides a series of informational texts as well as hundreds of questions and answers in the areas that will likely be covered on your upcoming exam.

Fish Cognition and Behavior NSTA Press

Behavior Analysis and Learning, Fifth Edition is an essential textbook covering the basic principles in the field of behavior analysis and learned behaviors, as pioneered by B. F. Skinner. The textbook provides an advanced introduction to operant conditioning from a very consistent Skinnerian perspective. It covers a range of principles from

basic respondent and operant conditioning through applied behavior analysis into cultural design. Elaborating on Darwinian components and biological connections with behavior, the book treats the topic from a consistent worldview of selectionism. The functional relations between the organism and the environment are described, and their application in accounting for old behavior and generating new behavior is illustrated. Expanding on concepts of past editions, the fifth edition provides updated coverage of recent literature and the latest findings. There is increased inclusion of biological and neuroscience material, as well as more data correlating behavior with neurological and genetic factors. The chapter on verbal behavior is expanded to include new research on stimulus equivalence and naming; there is also a more detailed and updated analysis of learning by imitation and its possible links to mirror neurons. In the chapter on applied behavior analysis (ABA), new emphasis is given to contingency management

of addiction, applications to education, ABA and autism, and prevention and treatment of health-related problems. The material presented in this book provides the reader with the best available foundation in behavior science and is a valuable resource for advanced undergraduate and graduate students in psychology or other behavior-based disciplines. In addition, a website of supplemental resources for instructors and students makes this new edition even more accessible and student-friendly (www.psypress.com/u/pierce). Cooperation in Primates and Humans Oxford University Press The 'Adaptive Landscape' has been a central concept in population genetics and evolutionary biology since this powerful metaphor was first formulated in 1932. This volume brings together historians of science, philosophers, ecologists, and evolutionary biologists, to discuss the state of the art from several different perspectives. Ecology McGraw-Hill Medical Publishing By joining phylogenetics and evolutionary ecology, this book explores the patterns of parasite diversity while revealing

diversification processes. Aquatic Biodiversity Benjamin Cummings Key Benefit: Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual. Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the AP Test Development Committee, the Holtzclaws have designed their resource to help your students prepare for the AP Exam. * Completely revised to match the new 8th edition of Biology by Campbell and Reece. * New Must Know sections in each chapter focus student attention on major concepts. * Study tips, information organization ideas and misconception warnings are interwoven throughout. * New section reviewing the 12 required AP labs. * Sample practice exams. * The secret to success on the AP Biology exam is to understand what you must

know – and these experienced AP teachers will guide your students toward top scores! Market Description: Intended for those interested in AP Biology. Lizards in an Evolutionary Tree Wiley-Blackwell In this age of increased fundamental and applied research on biodiversity, no single volume was as yet devoted to the various temporal and spatial aspects of aquatic biodiversity. The present book is published in honour of Professor Henri Dumont (Ghent, Belgium) at the occasion of his retirement as Editor-in-Chief of Hydrobiologia. The volume presents a selection of contributions on aquatic biodiversity, written by colleagues from the editorial board, fellow editors of aquatic journals and former students and collaborators. Contributions deal with a wide spectrum of topics related to aquatic biodiversity and cover

fields such as actual- and palaeolimnology, taxonomy, and fundamental and applied limnology. Even reconnaissance chapters on management and cultural impact of water bodies are included. The book combines state-of-the-art contributions in aquatic sciences. Research Design and Methods Oxford University Press Honeybees make decisions collectively--and democratically. Every year, faced with the life-or-death problem of choosing and traveling to a new home, honeybees stake everything on a process that includes collective fact-finding, vigorous debate, and consensus building. In fact, as world-renowned animal behaviorist Thomas Seeley reveals, these incredible insects have much to teach us when it comes to collective wisdom and effective decision making. A remarkable and richly illustrated account of scientific discovery, Honeybee Democracy brings together, for the first

time, decades of Seeley's pioneering research to tell the amazing story of house hunting and democratic debate among the honeybees. In the late spring and early summer, as a bee colony becomes overcrowded, a third of the hive stays behind and rears a new queen, while a swarm of thousands departs with the old queen to produce a daughter colony. Seeley describes how these bees evaluate potential nest sites, advertise their discoveries to one another, engage in open deliberation, choose a final site, and navigate together--as a swirling cloud of bees--to their new home. Seeley investigates how evolution has honed the decision-making methods of honeybees over millions of years, and he considers similarities between the ways that bee swarms and primate brains process information. He concludes that what works well for bees can also work well for people: any decision-making group should consist of individuals with shared interests and mutual respect, a leader's influence should be minimized, debate should be relied upon, diverse

solutions should be sought, and the majority should be counted on for a dependable resolution. An impressive exploration of animal behavior, *Honeybee Democracy* shows that decision-making groups, whether honeybee or human, can be smarter than even the smartest individuals in them. Teaching and Learning in the Science Laboratory Benjamin-Cummings Publishing Company The scientific study of networks - computer, social, and biological - has received an enormous amount of interest in recent years. However, the network approach has been applied to the field of animal behaviour relatively late compared to many other biological disciplines. Understanding social network structure is of great importance for biologists since the structural characteristics of any network will affect its constituent members and influence a range of diverse behaviours. These include finding and choosing a sexual partner, developing and maintaining cooperative relationships, and engaging in foraging and

anti-predator behavior. This novel text provides an overview of the insights that network analysis has provided into major biological processes, and how it has enhanced our understanding of the social organisation of several important taxonomic groups. It brings together researchers from a wide range of disciplines with the aim of providing both an overview of the power of the network approach for understanding patterns and process in animal populations, as well as outlining how current methodological constraints and challenges can be overcome. *Animal Social Networks* is principally aimed at graduate level students and researchers in the fields of ecology, zoology, animal behaviour, and evolutionary biology but will also be of interest to social scientists. *Uncovering Student Ideas in Science: 25 more formative assessment probes* Alberta Public Affairs Bureau Is Man the product of a God...or is "God" the product of human

evolution? From the dawn of our species, every human culture-no matter how isolated-has believed in some form of a spiritual realm. According to author Matthew Alper, this is no mere coincidence but rather due to the fact that humans, as a species, are genetically predisposed to believe in the universal concepts of a god, a soul and an afterlife. This instinct to believe is the result of an evolutionary adaptation-a coping mechanism-that emerged in our species to help us survive our unique and otherwise debilitating awareness of death. Spiritual seekers and atheists alike will be compelled and transformed by Matthew Alper's classic study of science and religion. *The 'God' Part of the Brain* has gained critical acclaim from some of the world's leading scientists, secular humanists, and theologians, and is a must read for anyone who has pondered the question of God's existence, as well as

the meaning of our own. audience." — Edward O. Wilson, two-time Pulitzer Prize-Winner "This is an essential book for those in search of a scientific understanding of man's spiritual nature. Matthew Alper navigates the reader through a labyrinth of intriguing questions and then offers undoubtedly clear answers that lead to a better understanding of our objective reality." — Elena Rusyn, MD, PhD; Gray Laboratory; Harvard Medical School "What a wonderful book you have written. It was not only brilliant and provocative but also revolutionary in its approach to spirituality as an inherited trait." — Arnold Sadwin, MD, former chief of Neuropsychiatry at the University of Pennsylvania "A lively manifesto...For the discipline's specific application to the matter at hand, I've seen nothing that matches the fury of *The 'God' Part of the Brain*, which perhaps explains why it's earned something of a cult following." —

Salon.com "All 6 billion plus inhabitants of Earth should be in possession of this book. Alper's tome should be placed in the sacred writings' section of libraries, bookstores, and dwellings throughout the world. Matthew Alper is the new Galileo...Immensely important...Defines in a clear and concise manner what each of us already knew but were afraid to admit and exclaim." — John Scoggins, PhD "Vibrant ... vivacious. An entertaining and provocative introduction to speculations concerning the neural basis of spirituality." — Free Inquiry Magazine [Simutext](#) Springer Science & Business Media Pellegrini argues that play is an excellent example of the influence of biology and culture on one other, especially during childhood. The innovative possibilities associated with different forms of juvenile play behaviour can influence both individuals' skill acquisition and possibly also the development of the species.

On the Origin of Species
Illustrated John Wiley &
Sons

Author Page Keeley continues to provide KOCO12 teachers with her highly usable and popular formula for uncovering and addressing the preconceptions that students bring to the classroom. This formative assessment probe is the first book devoted exclusively to life science in her Uncovering Student Ideas in Science series. Keeley addresses the topics of life and its diversity; structure and function; life processes and needs of living things; ecosystems and change; reproduction, life cycles, and heredity; and human biology."