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KEY=EDITION - KENDRICK LEON

Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research

National Academies Press *Expanding on the National Research Council's™ Guide for the Care and Use of Laboratory Animals, this book deals specifically with mammals in neuroscience and behavioral research laboratories. It offers flexible guidelines for the care of these animals, and guidance on adapting these guidelines to various situations without hindering the research process. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research offers a more in-depth treatment of concerns specific to these disciplines than any previous guide on animal care and use. It treats on such important subjects as: The important role that the researcher and veterinarian play in developing animal protocols. Methods for assessing and ensuring an animal's™ well-being. General animal-care elements as they apply to neuroscience and behavioral research, and common animal welfare challenges this research can pose. The use of professional judgment and careful interpretation of regulations and guidelines to develop performance standards ensuring animal well-being and high-quality research. Guidelines for the Care and Use of Mammals in Neuroscience and Behavioral Research treats the development and evaluation of animal-use protocols as a decision-making process, not just a decision. To this end, it presents the most current, in-depth information about the best practices for animal care and use, as they pertain to the*

intricacies of neuroscience and behavioral research.

Psychopharmacology Bulletin

Cumulated Index Medicus

Principles of Animal Behavior, 4th Edition

University of Chicago Press *Since the last edition of this definitive textbook was published in 2013, much has happened in the field of animal behavior. In this fourth edition, Lee Alan Dugatkin draws on cutting-edge new work not only to update and expand on the studies presented, but also to reinforce the previous editions' focus on ultimate and proximate causation, as well as the book's unique emphasis on natural selection, learning, and cultural transmission. The result is a state-of-the-art textbook on animal behavior that explains underlying concepts in a way that is both scientifically rigorous and accessible to students. Each chapter in the book provides a sound theoretical and conceptual basis upon which the empirical studies rest. A completely new feature in this edition are the Cognitive Connection boxes in Chapters 2-17, designed to dig deep into the importance of the cognitive underpinnings to many types of behaviors. Each box focuses on a specific issue related to cognition and the particular topic covered in that chapter. As Principles of Animal Behavior makes clear, the tapestry of animal behavior is created from weaving all of these components into a beautiful whole. With Dugatkin's exquisitely illustrated, comprehensive, and up-to-date fourth edition, we are able to admire that beauty anew.*

Population Sciences

The Behavior of Animals

Mechanisms, Function and Evolution

John Wiley & Sons *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. This thorough textbook features contributions from international experts and shares six new chapters within its revised edition. Readers will find chapters that begin with an introduction to a specific topic, such as animal cognition, and conclude with student exercises or research projects related to animal behavior. Engaging material is supported by color illustrations, informative callouts, and the accessible presentation of technical information. Provides an introduction to the study of animal behavior Features new chapters on animals' hormones and their behavior; individuality; making decisions; language; human evolution; and the use and abuse of primate models for human behavior Looks at an extensive scope of topics—from animal learning to mating Explores the evolution of animal behavior as well as human evolution Students will benefit from an updated textbook where a variety of contributors provide their expertise and global perspective in specialized areas.

Toxicity Bibliography

Novel Mechanisms of Memory

Springer *This book integrates discoveries from recent years to show the diversity of molecular mechanisms that contribute to memory consolidation, reconsolidation, extinction, and forgetting. It provides a special focus on the processes that govern functional and structural plasticity of dendritic spines. In nine chapters, new and important ideas related to learning and memory processes will be presented. Themes discussed include the role of AMPA receptors in memory, two signalling cascades involved in local spine remodelling and memory, the role of extracellular matrix proteins in memory, the regulation of gene expression and protein translation, and mechanisms of retrieval-induced memory modulation and forgetting. We believe that the study of these topics represents a great step toward understanding the complexity of the brain and the processes it governs.*

Index Medicus

Principles of Animal Behavior

Third International Student Edition

W. W. Norton & Company *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.

Animal Personalities

Behavior, Physiology, and Evolution

University of Chicago Press 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 Maestriperi, 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.

Proceedings, Conference on Estrous Cycle Control in Domestic Animals, July 9-10, 1964, Nebraska Center for Continuing Education, University of Nebraska, Lincoln, Nebraska

Genetics and the Behavior of Domestic Animals

Academic Press *Behavior is shaped by both genetics and experience--nature and nurture. This book synthesizes research from behavioral genetics and animal and veterinary science, bridging the gap between these fields. The objective is to show that principles of behavioral genetics have practical applications to agricultural and companion animals. The continuing domestication of animals is a complex process whose myriad impacts on animal behavior are commonly under-appreciated. Genetic factors play a significant role in both species-specific behaviors and behavioral differences exhibited by individuals in the same species. Leading authorities explore the impact of increased intensities of selection on domestic animal behavior. Rodents, cattle, pigs, sheep, horses, herding and guard dogs, and poultry are all included in these discussions of genetics and behavior, making this book useful to veterinarians, livestock producers, laboratory animal researchers and technicians, animal trainers and breeders, and any researcher interested in animal behavior. Includes four new chapters on dog and fox behavior, pig behavior, the effects of domestication and horse behavior. Synthesizes research from behavioral genetics, animal science, and veterinary literature. Broaches fields of behavior genetics and behavioral research. Includes practical applications of principles discovered by behavioral genetics researchers. Covers many species ranging from pigs, dogs, foxes, rodents, cattle, horses, and cats.*

Metrics of Sensory Motor Coordination and Integration in Robots and Animals

How to Measure the Success of Bioinspired Solutions with Respect to their Natural Models, and Against More 'Artificial' Solutions?

Springer *This book focuses on a critical issue in the study of physical agents, whether natural or artificial: the quantitative modelling of sensory-motor coordination. Adopting a novel approach, it defines a common scientific framework for both the intelligent systems designed by engineers and those that have evolved naturally. As such it contributes to the widespread adoption of a rigorous quantitative and refutable approach in the scientific study of 'embodied' intelligence and cognition. More than 70 years after Norbert Wiener's famous book *Cybernetics: or Control and Communication in the Animal and the Machine* (1948), robotics, AI and life sciences seem to be converging towards a common model of what we can call the 'science of embodied intelligent/cognitive agents'. This book is interesting for an interdisciplinary community of researchers, technologists and entrepreneurs working at the frontiers of robotics and AI, neuroscience and general life and brain sciences.*

From Animals to Animats 8

Proceedings of the Seventh [i.e. Eighth] International

Conference on Simulation of Adaptive Behavior

MIT Press *New research on the adaptive behavior of natural and synthetic agents. The biannual International Conference on the Simulation of Adaptive Behavior brings together researchers from ethology, psychology, ecology, artificial intelligence, artificial life, robotics, engineering, and related fields to advance the understanding of behaviors and underlying mechanisms that allow natural and synthetic agents (animats) to adapt and survive in uncertain environments. The work presented focuses on well-defined models--robotic, computer simulation, and mathematical--that help to characterize and compare various organizational principles or architectures underlying adaptive behavior in both animals and animats. The proceedings of the eighth conference treat such topics as passive and active perception, navigation and mapping, collective and social behavior, and applied adaptive behavior.*

National Library of Medicine Current Catalog

Annual cumulation

Guide for the Care and Use of Laboratory Animals

Eighth Edition

National Academies Press *A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment,*

husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

Game Theory and Animal Behavior

Oxford University Press Game theory has revolutionized the study of animal behavior. The fundamental principle of evolutionary game theory--that the strategy adopted by one individual depends on the strategies exhibited by others--has proven a powerful tool in uncovering the forces shaping otherwise mysterious behaviors. In this volume, the first since 1982 devoted to evolutionary game theory, leading researchers describe applications of the theory to diverse types of behavior, providing an overview of recent discoveries and a synthesis of current research. The volume begins with a clear introduction to game theory and its explanatory scope. This is followed by a series of chapters on the use of game theory to understand a range of behaviors: social foraging, cooperation, animal contests, communication, reproductive skew and nepotism within groups, sibling rivalry, alternative life-histories, habitat selection, trophic-level interactions, learning, and human social behavior. In addition, the volume includes a discussion of the relations among game theory, optimality, and quantitative genetics, and an assessment of the overall utility of game theory to the study of social behavior. Presented in a manner accessible to anyone interested in animal behavior but not necessarily trained in the mathematics of game theory, the book is intended for a wide audience of undergraduates, graduate students, and professional biologists pursuing the evolutionary analysis of animal behavior.

Sleep and Movement Disorders

Oxford University Press Sleep disorders and movement disorders are inter-connected areas of neurology, and this comprehensive text examines the relationship, the basic science and the latest advances in treatment.

AIDS Bibliography

Population Sciences

The index is based on citations selected from the corresponding monthly issue of Index medicus.

Methods of Behavior Analysis in Neuroscience

CRC Press *Using the most well-studied behavioral analyses of animal subjects to promote a better understanding of the effects of disease and the effects of new therapeutic treatments on human cognition, Methods of Behavior Analysis in Neuroscience provides a reference manual for molecular and cellular research scientists in both academia and the pharmaceutical*

Animal Behavior

An Evolutionary Approach

Sinauer Associates Incorporated *This new edition of Animal Behavior maintains the organizational structure of previous editions, but has been completely rewritten with coverage of much recent work in animal behaviour, resulting in a thoroughly up-to-date text. Notable is the inclusion, for the first time, of discussion questions embedded in the text itself, rather than appended to the end of each chapter. This format is designed to encourage students to reflect on the material they have just digested while also making it easier for instructors to promote a problem-solving approach to the subject. Like previous editions, the book shows how evolutionary biologists analyze all aspects of behaviour. It is distinguished by its balanced treatment of both the underlying mechanisms and evolutionary causes of behaviour, and stresses the utility of evolutionary theory in unifying the different behavioural disciplines. The writing style is clear and engaging: beginning students have no difficulty following the material, despite the strong conceptual orientation of the text. Indeed, instructors consistently report a high level of enthusiasm for the book on the part of their students.*

Joyce in the Belly of the Big Truck; Workbook Animal Behavior Psychobiology, Ethology, and Evolution Benjamin-Cummings Publishing Company Comparative & Veterinary Medicine A Guide to the Resource Literature Abridged Index Medicus Images Of Animals

Temple University Press *Seeing a cat rubbing against a person, Charles Darwin described her as "in an affectionate frame of mind"; for Samuel Barnett, a behaviorist, the mental realm is beyond the grasp of scientists and behavior must be described technically, as a physical action only. What difference does this difference make? In Eileen Crist's analysis of the language used to portray animal behavior, the difference "is that in the reader's mind the very image of the cat's 'body' is transfigured...from an experiencing subject...into a vacant object." Images of Animals examines the literature of behavioral science, revealing how works with the common aim of documenting animal lives, habits, and instincts describe "realities that are worlds apart." Whether the writer affirms the Cartesian verdict of an unbridgeable chasm between animals and humans or the Darwinian panorama of evolutionary continuity, the question of animal mind is ever present and problematic in behavioral thought. Comparing the naturalist writings of Charles*

Darwin, Jean Henri Fabre, and George and Elizabeth Peckham to works of classical ethology by Konrad Lorenz and Nikolaas Tinbergen and of contemporary sociobiology, Crist demonstrates how words matter. She does not attempt to defend any of these constructions as a faithful representation of animal existence, but to show how each internally coherent view molds the reader's understanding of animals. Rejecting the notion that "a neutral language exists, or can be constructed, which yields incontestably objective accounts of animal behavior," Crist argues that "language is not instrumental in the depiction of animals and, in particular, it is never impartial with respect to the question of animal mind."

Handbook of Temperament

Guilford Press *Timely and authoritative, this unique handbook explores the breadth of current knowledge on temperament, from foundational theory and research to clinical applications. Leaders in the field examine basic temperament traits, assessment methods, and what brain imaging and molecular genetics reveal about temperament's biological underpinnings. The book considers the pivotal role of temperament in parent-child interactions, attachment, peer relationships, and the development of adolescent and adult personality and psychopathology. Innovative psychological and educational interventions that take temperament into account are reviewed. Integrative in scope, the volume features extensive cross-referencing among chapters and a forward-looking summary chapter.*

Behavioral Ecology of Tropical Animals

Academic Press *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 thematic volume makes another important "contribution to the development of the field" by bringing together material that aggregates studies conducted on the behavior of tropical animals. Advances in the Study of Behavior is now available online at ScienceDirect--full-text online from volume 30 onward.*

Best Books for Children

Psychopharmacology Bulletin

Subject Catalog

Medical Books and Serials in Print

Animal Talk

Breaking the Codes of Animal Language

Simon and Schuster *An authoritative study of the mysteries of animal communication draws on the latest scientific research and real-life animal stories to explain the diverse ways in which wild animals of various species communicate with one another. 40,000 first printing.*

Forthcoming Books

Scientific and Technical Books in Print

The Publishers' Trade List Annual

Zoo & Wild Animal Medicine

Current Therapy

Saunders *This latest volume remains the only book available that focuses on the medical problems of captive and free-ranging wildlife. It features the most current information, following the approach and format of previous volumes and conveniently cross-indexed to Volume 3. Conveys the knowledge of 110 international authors selected for their expertise in specific subjects General conditions focuses on pulse oximetry, quarantine principles, ultrasonography, tuberculosis, CT and MRI scanning, validity of diagnostic tests, endoscopy, and much more, as well as zoonoses such as cryptosporidiosis, toxoplasmosis, rabies, and avian tuberculosis Fish and reptiles covers fish anesthesia, a preventive medicine program for fish, and pharmacokinetics; and chameleon medicine, crocodilian anesthesia, sea turtles, evaluation and monitoring chelonians for release Avian medicine examines iron storage disease, feeding orphaned columbiform birds, the California Condor project, water quality in waterfowl collections, oiled birds, and avian analgesia Mammals encompasses such topics as contraception for mammals, marsupials, primates, rodents, carnivores, marine mammals, elephants, perrisodactylids, and artiodactylids Provides selected references after each discussion to aid in further reference. Bridges the gap between captured and free-ranging wild animal medicine*

Federation Proceedings

Vols. for 1942- include proceedings of the American Physiological Society.