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Animal Behavior Dec 15 2020 Animal behavior, ethology or behaviorism is a scientific field that studies the behavior of animals under normal circumstances. It includes topics like observational learning, habituation, imprinting, and associative learning, etc. This book aims to shed light on some of the unexplored aspects of animal behavior. Such selected concepts that redefine the field have been presented in it. This book is a valuable compilation of topics, ranging from the basic to the most complex theories and principles in the field of animal behavior. For someone with an interest and eye for detail, this text covers the most significant topics in this field. It will provide comprehensive knowledge to the students.

Eye Color Dec 03 2019 Morgan Worthy, a research psychologist, presents a comprehensive picture of how eye color is related to the behavior of humans and animals. In humans, he used archival records of athletic performance to show the theoretical pattern which has light-eyed athletes performing at their best on self-paced tasks and dark-eyed athletes, on average, performing at their best on reactive tasks. This same general pattern is shown to hold true in animal behaviors such as hunting tactics of predators and escape tactics of prey. Whereas dark-eyed predators tend to rely on immediate, quick, reactions to catch prey, light-eyed predators tend to rely more on their ability to lie-in-wait or stalk prey. Various other behaviors such as perception and social interaction are discussed in the same theoretical framework.

Determinants of Animal Behaviour Apr 06 2020 Are animals intelligent? How do they learn to solve everyday survival problems? Can they be intentionally deceptive? The investigation of animal behaviour is an important and fascinating aspect of comparative psychology. *Determinants of Animal Behaviour* thoroughly covers the section on determinants of animal behaviour in the AQA (A) comparative psychology module and deals with the three main topics featured in the syllabus. Firstly the evolutionary explanations of animal behaviour are discussed, including the biological explanations of apparent altruism. Secondly the nature of classical and operant conditioning in animal behaviour is considered and finally the role of social learning in animals is investigated. Real life examples are used throughout the book to illustrate the arguments presented. *Determinants of Animal Behaviour* is an ideal introductory text to the subject, full of real life examples and both traditional and cutting-edge research. It will be of interest to all students new to comparative psychology and highly accessible to anyone wishing to know more about the diversity and ingenuity of animal behaviour.

Essential Animal Behavior Aug 03 2022 *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.

[The Behavioural Biology of Zoo Animals](#) Sep 11 2020 This is the first book on captive animal behaviour, applied to welfare. It enables all aspects of zoo husbandry and management (nutrition, enclosure design, handling and training, enrichment, population management) to be based on a sound knowledge of the species, its evolutionary and natural history.

Animal Conflict Aug 30 2019 In the past twenty years there have been many new developments in the study of animal behaviour: for example, more sophisticated methods of neurophysiology; more precise techniques for assessing hormonal levels; more accurate methods for studying animals in the wild; and, on the functional side, the growth of behavioural ecology with its use of optimality theory and game theory. In addition, there has been a burgeoning number of studies on a wide range of species. The study of aggression has benefited greatly from these developments; this is reflected in the appearance of a number of specialized texts, both on behavioural ecology and on physiology and genetics. However, these books have often been collections of papers by specialists for specialists. No one book brings together for the non-specialist all the diverse aspects of aggression, including behavioural ecology, genetics, development, evolution and neurophysiology. Neither has there been a comparative survey dealing with all these aspects. Therefore one of our aims in writing this book was to fill in these gaps. Another of our aims was to put aggression into context with respect to other aspects of an animal's lifestyle and in particular to other ways in which animals deal with conflicts of interest. Aggressive behaviour does not occur in a biological vacuum. It both influences and is influenced by the animal's ecological and social environment, so we consider both the complex antecedent conditions in which aggressive behaviour occurs, and its ramifying consequences in the ecosystem.

[Animals, Ethics and Trade](#) Feb 14 2021 Modern urban life cuts us off from direct connection with the animal world, yet daily the lives of millions of animals are affected by what we consume and wear and what we trade in. The use of animals for food, labour and pleasure pursuits has long been justified with the assumption that unlike humans, animals aren't fully sentient beings. In recent years, however, science has revealed an astonishing array of complex animal behaviour, and scientists and policy makers now accept that the animals we make use of are indeed conscious, with preferences and intentions. The implications for our culture of factory farming, fast food and rainforest liquidation are staggering. In this powerful book, internationally renowned experts on animal behaviour and agriculture such as Jane Goodall, Tim Lang and Vandana Shiva are brought together with ethicists, religious scholars, international industry and regulators for the first time to debate these critical issues and tackle the profound implications of animal sentience. The first sections discuss scientific and ethical perspectives on the consciousness, emotions and mental abilities of animals. Later sections address how human activities such as science, law, religion, farming, food production, trade, development and education respect or ignore animals' sentience and welfare, and review the options for changes in our policies, our practices and our thinking. The result is nothing less than a stark and necessary look into the heart of humanity and the ethics that govern our animal powered

society.

The Minds of Animals Jan 16 2021

Animal Behavior Oct 05 2022 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

Animal Welfare, 3rd Edition Sep 23 2021 Updated and revised, this bestselling textbook continues to provide a broad introduction to the key topics in the welfare of animals both large and small, farm and companion, wild and zoo. It retains all the popular features of the previous editions with coverage of key issues such as ethics, animal pain and injury, health and disease, social conditions, and welfare dilemmas and problems. Importantly, it also offers practical advice for welfare assessment, with a full section dedicated to the implementation of solutions. With contributions from renowned international experts and a new editorial team, Animal Welfare, 3rd Edition is an essential resource for students and researchers in animal and veterinary sciences and other disciplines considering the science and practice of animal welfare, and for practitioners and decision-makers worldwide.

Animal Personalities Oct 25 2021 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 Maestripieri, 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.

Animal Motivation Sep 04 2022 The topic of animal motivation deals with how and why animals engage in particular activities: what mechanisms inside the animal generate behaviour, how stimuli from the external environment influence these mechanisms, and how this behaviour is beneficial to the animal. The topic is thus central both to academic studies in psychology and zoology and to applied matters in domestic species. Motivation has not been an area of great emphasis in the past 10-15 years but there is now a growing realization that it should receive greater attention. Drawing on concepts and observations from a number of areas, this book provides an overview of the motivational processes which determine the choices, timing, and sequencing which are characteristic of animal behaviour. Data and theory from ethology, psychology, and evolutionary biology are synthesized into a contemporary framework for analysing such central features of behaviour as persistence in activities and goal orientation. Principles of motivational analysis

are discussed and illustrated with specific case studies. The successive chapters deal with ethological, physiological, and ecological approaches involving experimental work on a diversity of vertebrate and invertebrate species. Ethological topics include the interaction of external stimuli and internal states, mechanisms of choice, quantitative models of motivation, conflict between tendencies for different activities, and behavioural homeostasis. The review of physiological research focuses on hunger, the activating roles of nerves and hormones, and the examination of animals with small nervous systems.

Pheromones and Animal Behaviour Mar 30 2022 Introduction to chemical communication and pheromones.

Curiosity and Information Seeking in Animal and Human Behavior Jun 28 2019 The purpose of the book is to deliver a critical review of the literature and author's research data relevant for understanding the phenomena of curiosity, information seeking behavior, and novelty seeking. The book is designed to be a comprehensive and systematic lecture of areas related to the main subject in a way that will enable the reader to grasp the notion of development in terms of the evolutionary time scale and ontogenesis. Each of the subjects is explained on the basis of three perspectives: ultimate factors, integrative levels, and proximate mechanisms. This work is intended to integrate approaches adopted within psychology, ethology, and behavioral neuroscience. The major uniqueness is related to the integrative levels framework, which is not very often utilized in the contemporary books on the subject. This is why the book offers holistic, complete presentation of the area that it does cover. It should be of interests of students of psychology, animal behavior, as well teachers and educators. It provides refreshing cues for creative thinking about human curiosity. The present edition includes new data and the discussion of the new literature on the subject.

An Introduction to Animal Behaviour Jun 20 2021

Die Sprachen der Tiere Jul 22 2021 Die Philosophin und Schriftstellerin Eva Meijer beschreibt in diesem abwechslungsreichen und unterhaltsamen Buch tierische Kommunikationsformen. Sie wechselt dabei von wissenschaftlichen Anekdoten zu deren Analyse und von persönlichen Erlebnissen zu philosophischen Reflexionen über Sprache und ihre Funktionen. Die lautlichen Äußerungen von Hunden, Delfinen oder Elefanten beschreibt sie ebenso wie die erstaunlichsten systemischen und körperlichen Kommunikationsformen bei Ameisen oder Bienen. Es geht ihr neben der Entdeckung einer bis heute fast unerforschten Welt auch um die Möglichkeiten der Verständigung von Mensch und Tier. Ihre überraschenden Entdeckungen und Einsichten münden jedoch letztlich in der Frage, ob es nicht an der Zeit wäre, die schwache politische Position der Tiere zu überdenken. Denn wer Sprache hat, ist ein Mensch und damit ein ethisches Subjekt, so jedenfalls eine jahrhundertealte philosophische Überzeugung, mit der man bislang den Menschen über das Tier erheben wollte. Eva Meijer leistet mit diesem glänzenden Buch einen Beitrag zu einer längst überfalligen Debatte.

Advances in the Study of Behavior Dec 27 2021 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 volume makes another important "contribution to the development of the field" by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields. Initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presents theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields

The Biology of Animal Stress Mar 06 2020 The subjects of stress and animal welfare are currently attracting immense interest. This book brings together a range of perspectives from biomedical research (including human health and animal models of human stress) on stress and welfare, and assesses new approaches to conceptualising and alleviating stress.

Zoo Animals Aug 23 2021 Zoo Animals: Behaviour, Management, and Welfare is the ideal resource for anyone needing a thorough grounding in this subject, whether as a student or as a zoo professional.

Understanding Animal Behaviour Jul 30 2019 All students and researchers of behaviour - from those observing freely-behaving animals in the field to those conducting more controlled laboratory studies - face the problem of deciding what exactly to measure. Without a scientific framework on which to base them, however, such decisions are often unsystematic and inconsistent. Providing a clear and defined starting

point for any behavioural study, this is the first book to make available a set of principles for how to study the organisation of behaviour and, in turn, for how to use those insights to select what to measure. The authors provide enough theory to allow the reader to understand the derivation of the principles, and draw on numerous examples to demonstrate clearly how the principles can be applied. By providing a systematic framework for selecting what behaviour to measure, the book lays the foundations for a more scientific approach for the study of behaviour.

Foundations of Animal Behavior Apr 18 2021 Beginning with Darwin's work in the 1870s, Foundations of Animal Behavior selects the most important works from the discipline's first hundred years—forty-four classic papers—and presents them in facsimile, tracing the development of the field. These papers are classics because they either founded a line of investigation, established a basic method, or provided a new approach to an important research question. The papers are divided into six sections, each introduced by prominent researchers. Sections one and two cover the origins and history of the field and the emergence of basic methods and approaches. They provide a background for sections three through six, which focus on development and learning; neural and hormonal mechanisms of behavior; sensory processes, orientation, and communication; and the evolution of behavior. This outstanding collection will serve as the basis for undergraduate and graduate seminars and as a reference for researchers in animal behavior, whether they focus on ethology, behavioral ecology, comparative psychology, or anthropology. Published in association with the Animal Behavior Society

Der Tiger in der guten Stube Feb 26 2022

Animal Behavior and Parasitism Jun 08 2020 We live in a world teeming with parasites. Many animal behaviors, including social interactions, mating displays, and decisions about where to move, nest, and forage are shaped by interactions with parasites. The same is true for humans, where our attraction to mates, hygienic behaviors, food choices, and decisions about when and where to gather in groups often depend on current and perceived infection risk. In turn, behaviors like social distancing and self-medication can alter the trajectories of parasite transmission and evolution, as vividly illustrated by the ongoing COVID-19 pandemic. The myriad connections between animal behavior and parasitism have been the subject of growing research interest since the 1970s and 80s, when fundamental theories linking the two fields of study emerged. Since then, a combination of conceptual and technological advances, and increased integration of ideas across disciplines, have helped to uncover fascinating new connections between animal behavior and the ecology and evolution of infectious diseases. This accessible text surveys emerging research in this vibrant field. Chapters focus on fundamental topics at the interface of animal behavior and parasitism, and authors have been selected to provide a diverse and international perspective. *Animal Behavior and Parasitism* is an upper-level text suitable for senior undergraduate and graduate level students as well as professional researchers in animal behavior/behavioral ecology, disease ecology, parasitology, and evolutionary biology.

Animal Behaviour in the Laboratory Apr 30 2022

The APBC Book of Companion Animal Behaviour Jan 28 2022 The Association of Pet Behaviour Counsellors has been established for over twenty years and their experience and understanding of this new, and developing, science of ethology is the basis of the book. Experienced animal behaviour counsellors provide the most up-to-date account of the science of animal psychology for all pet owners, while providing a practical approach for all veterinarians who treat small animals. Dogs, cats and rabbits are the animals most commonly treated for behavioural problems and the book focuses on the problems that affect these companion animals. Exploring the psychology of a pet's relationship with its owner, and with each other, leading writers from Sarah Heath and Anne McBride to Inga MacKellar identify the problems all vets will be asked about and provide practical solutions to them. Bringing together a variety of expert opinions and the most up-to-date research The APBC Book of Companion Animal Behaviour will help resolve a cat's anti-social behaviour and explain why a dog acts like its wild wolf ancestors. Groundbreaking essays on problem behaviour look at how learning and emotions governs animal behaviour while outlining the best way to understand: The foundations of canine behaviour How pets and children interact Behaviour problems in domestic rabbits Rage Syndrome in dogs Problems specific to ageing pets. This guide compiles the insights and experience of authors at the forefront of this expanding science to provide expert and professional

perspectives that will enhance the relationship between a pet and its owner. Pet behavior, whether dogs, cats or rabbits, is affected by their ethology (the science of animal behavior) while it is also important to understand how learning and emotional response can govern their actions. Animal experts propose solutions to problem behavior in ground-breaking essays, as well as providing guidance on the relationship between pets and children (including the arrival of a new baby), "rage" syndrome in dogs, how to rehabilitate rescue dogs and cats, plus advice on legal and welfare issues. The Association of Pet Behaviour Counsellors has been established for almost thirty years to study why pets act as they do. The APBC's experience and understanding of this new, and developing, science of ethology is the basis for this book. Experienced animal behaviour counsellors provide the most up-to-date account of the science of animal psychology in the relationship between a pet and its owner, while providing a practical approach for veterinarians who treat small animals. Dogs, cats and rabbits are the animals most commonly treated for behavioural problems and the book focuses on the problems that affect these companion animals. Exploring the psychology of a pet's relationship with its owner, and with each other, leading writers from Julie Bedford and Anne McBride to Inga MacKellar identify the problems all vets will be asked about and provide practical solutions to them. Groundbreaking essays on problem behaviour look at how learning and emotional response governs animal behaviour while outlining the best way to understand: The foundations of canine behaviour, How pets and children interact, How to rehabilitate rescue dogs and cats, Rage Syndrome in dogs Bringing together a variety of expert opinions and the most up-to-date research The APBC Book of Companion Animal Behaviour will help resolve a cat's anti-social behaviour and explain why a dog acts like its wild wolf ancestors.

Feedback Mechanisms in Animal Behaviour Jun 01 2022

Die Anwendbarkeit von Methoden zur Beurteilung des Verhaltens von Tieren (animal behaviour) bei toxikologischen Langzeitsversuchen Aug 11 2020

A Dictionary of Animal Behaviour Jul 02 2022

A Textbook of Animal Behaviour Oct 13 2020 This textbook is an introduction to the Science of Animal Behaviour Presently this subject is introduced in most of the Indian Universities in B.Sc. IIIrd year and Post-graduate classes.

Development of Animal Behaviour Nov 13 2020 The present title Development of Animal Behaviour aims to stimulate an understanding of behaviour of wide variety of animals including man, farm animal and best species to inspire the reader to take an interest in the field. The text integrates the descriptive and experimental approaches into a conceptual framework for the analysis of behavioural studies. It is profusely and attractively illustrated with line diagrams. It introduces the basic ideas and concepts of modern ethology set in historical context, thereby showing how views have changed since the simple theories put forward by the founders of the field, such as Lorenz and Tinberg 40 years or more ago.

The Role of Calcium and Comparable Cations in Animal Behaviour Jul 10 2020 This book examines important biological contributions of these ions including enzyme activation, effects in all types of muscle and biomineralization.

Animal Behaviour Nov 06 2022 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.

Animal Behaviour Abstracts Oct 01 2019

Essentials of Animal Behaviour Mar 18 2021

Animal Behavior for Shelter Veterinarians and Staff Feb 03 2020 A comprehensive resource to understand the behavioral considerations for intake, management, and rehoming of dogs and cats Animal Behavior for Shelter Veterinarians and Staff provides readers with comprehensive information addressing the behavior of both animals and humans associated with the intake, management, and rehoming of dogs and cats. To aid in practical application, the book covers specific behavior considerations in both dogs and cats. Topics are separated by animal to allow for easy accessibility by professionals who are actively working in the

field. Sample topics covered within the book include: The behavior issues that are a common cause of pet relinquishment Behavioral assessment, behavior modification, the integration of behavioral well-being into sheltering Welfare assessment, psychopharmacology, safety net programs, and caring for animals during long-term legal holds Equine care and caring for small mammals Animal Behavior for Shelter Veterinarians and Staff is a must-have reference for evidence-based practical tips, techniques, and protocols for everyday use in animal shelters by shelter volunteers and staff, as well as professional trainers, behaviorists, and veterinarians working with shelters.

Neural Networks and Animal Behavior Nov 01 2019 How can we make better sense of animal behavior by using what we know about the brain? This is the first book that attempts to answer this important question by applying neural network theory. Scientists create Artificial Neural Networks (ANNs) to make models of the brain. These networks mimic the architecture of a nervous system by connecting elementary neuron-like units into networks in which they stimulate or inhibit each other's activity in much the same way neurons do. This book shows how scientists can employ ANNs to analyze animal behavior, explore the general principles of the nervous systems, and test potential generalizations among species. The authors focus on simple neural networks to show how ANNs can be investigated by math and by computers. They demonstrate intuitive concepts that make the operation of neural networks more accessible to nonspecialists. The first chapter introduces various approaches to animal behavior and provides an informal introduction to neural networks, their history, and their potential advantages. The second chapter reviews artificial neural networks, including biological foundations, techniques, and applications. The following three chapters apply neural networks to such topics as learning and development, classical instrumental condition, and the role of genes in building brain networks. The book concludes by comparing neural networks to other approaches. It will appeal to students of animal behavior in many disciplines. It will also interest neurobiologists, cognitive scientists, and those from other fields who wish to learn more about animal behavior.

Animal Behaviour Jan 04 2020 Reproduction of the original: Animal Behaviour by C. Lloyd Morgan

Purpose in Animal Behaviour May 08 2020 Problems of attachment - Social organisation - Ritual in sexual approaches - Territory in the social order and reproduction - Primates and social organisation.

Domestic Animal Behavior for Veterinarians and Animal Scientists Nov 25 2021 Domestic Animal

Behavior for Veterinarians and Animal Scientists, Sixth Edition is a fully updated revision of this popular, classic text offering a thorough understanding of the normal behavior of domestic animals. Provides a complete understanding of the normal behavior of domestic animals Covers dogs, cats, horses, pigs, sheep, cattle, and goats Describes all key aspects of animal behavior, with images to support the concepts Revised and updated to cover the latest thinking, with enhanced coverage of behavioral genetics, animal cognition, and learning Includes access to a companion website with review questions and answers and the figures from the book in PowerPoint

Understanding Animal Welfare May 20 2021 "This is a delightful book, full of interesting aspects of animal welfare. An excellent guide to the academic study of animal welfare science." —Marian Stamp Dawkins, Department of Zoology, University of Oxford Understanding Animal Welfare: The Science in its Cultural Context takes a completely fresh and thought-provoking approach. It is essential reading for anyone interested, studying or currently working in the fascinating field of animal welfare science. David Fraser places modern-day welfare issues within their historical framework by tracing the evolving ideas that led to current thinking. He also highlights some intriguing issues relating to the contradiction inherent in the term 'animal welfare science' and the practical problem of how to assess emotional states in animals. Special features: Encompasses ideas from a variety of disciplines to give a broad perspective of the topic. Discusses methods of measuring animal welfare and their strengths and limitations. Examines contemporary debates and applications of the science to policy issues. "... an impressive historical narrative of the genesis and growth of animal welfare as a scientific discipline.... The book will be invaluable for anyone involved with animal welfare issues on an academic level or those involved with the integration of these principles into current care and handling issues facing agriculture, companion, laboratory, wild, or zoo animals." —Carolyn L. Stull, PhD, Veterinary Medicine Extension, School of Veterinary Medicine, University of California, Davis "Fraser offers insights only possible from someone with his considerable experience and understanding." —Dr. Chris Sherwin, Department of Clinical Veterinary Science, University of Bristol This book is part of the UFAW/Wiley-Blackwell Animal Welfare Book Series. This major series of books produced in collaboration between UFAW (The Universities Federation for Animal Welfare), and Wiley-Blackwell provides an authoritative source of information on worldwide developments, current thinking and best practice in the field of animal welfare science and technology. For details of all of the titles in the series see www.wiley.com/go/ufaw.