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Pushing the Limits of Animal Biology and its Implications for Welfare and Ethics

Edited by Temple Grandin, Colorado State University, USA and Martin Whiting, RVC, UK

Stimulating and thought-provoking, this important new text looks at the welfare problems and philosophical and ethical issues that are caused by changes made to an animal’s telos, behaviour and physiology, both positive and negative, to make them more productive or adapted for human uses.

These changes may involve selective breeding for production, appearance traits, or competitive advantage in sport, transgenic animals or the use of pharmaceuticals or hormones to enhance production or performance. Changes may impose duties to care for these animals further and more intensely, or they may make the animal more robust.

The book considers a wide range of animals, including farm animals, companion animals and laboratory animals. It reviews the ethics and welfare issues of animals which have been adapted for sport, companions, toys, ornaments, food sources, weapons and a whole host of other human functions. This important new sparks debate and is essential for all those involved in animal welfare and ethics, including veterinarians, animal scientists, animal welfare scientists and ethologists.


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Evidence-based, yet entirely practical, this important new text builds upon the basics of neuroscience to describe the links between olfaction and animal behaviour, and the effects of odours in animal welfare. Animals use smells in a multitude of ways: to orientate themselves, to create social bonds, to recognise food, to initiate reproduction, and to avoid predators and imminent threats such as fire.

Starting from the scientific basis of olfaction and odour perception, the book covers pheromones and behavioural tests, before describing the role of olfaction in feeding behaviour, reproduction, disease detection, and animal housing. The book:

- is written in an evidence-based way, yet with an easy-to-understand style, making it accessible to non-experts
- focuses on animals managed by humans, i.e. farm, zoo, lab and companion species
- is illustrated by in-depth research examples of many different species

This is a captivating introduction to the world of smells, suitable for advanced students, researchers, and teachers of applied ethology, animal welfare and veterinary science.

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The new edition contains important new information on epigenetics and canine behaviour, as well as expanded and reordered chapters. The authors of the book are all active in research and are experienced teachers, making this an essential resource for both students and lecturers in animal and veterinary science, animal welfare, zoology and psychology.

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Companion Animal Economics

The Economic Impact of Companion Animals in the UK

Sophie Hall, Luke Dolling, Katie Bristow, Dogs for Good, UK, Ted Fuller, Daniel S. Mills, all University of Lincoln, UK

Succinct, highly readable and thought provoking, this important new text is designed to raise awareness of the potential economic impact of companion animals in the UK. It discusses the potential benefits and costs of companion animals to the economy and highlights the need for this matter to be thoroughly researched, given the potential scale of impact and the potential costs of ignoring this matter. The book includes:

• case studies to illustrate the savings to the NHS that might be associated with companion animal ownership;
• links to up-to-date tables and content that might form templates for use in other countries; and
• highly readable information written by expert authors and key opinion leaders in the field.

Inspired by the seminal Council for Science and Society (CSS) Report, Companion Animals in Society (1988), this work updates and extends its evaluation of the economic impact of companion animals on society and lays a benchmark for future development. This pivotal new book is important for policy makers at national and international levels and all those involved in animal welfare.

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J Rushton, Royal Veterinary College, University of London, UK
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There are many ongoing debates within and about the subject of animal welfare. This book distils some of the major themes of current debate into one volume, edited by internationally known names in the field of animal welfare. Each chapter is written by one or more leading experts who discuss, in an even-handed way, a provocative topic that will be of interest to anyone concerned with animal welfare. Issues covered include tail docking, farm animal production, neutering of feral cats and the need to conserve habitats of native wild animals in the face of threats from non-native species. Chapters address the different values and priorities involved in dealing with these issues, including scientific and more explicit ethical approaches. Each chapter ends with questions for discussion that may help readers to engage with these dilemmas.
The Animal Trade
Evolution, Ethics and Implications
Clive J.C. Phillips, University of Queensland, Australia

‘I seriously believed I had an excellent synoptic view of the major ethical issues arising from animal use, until I read this book by Clive Phillips... (he) exhaustively documents the great extent to which the global trade in animals is directly responsible for some of the worst atrocities we perpetrate on other creatures... this is a book that should be read by every animal advocate.’ Professor Bernard E. Rollin, Colorado State University, USA

Trade is an inevitable part of human activity and evolution, but when it involves animals there are important ethical issues that have to be considered. Animal trade is often for economic reasons only, and may be hard to justify ethically. There are significant welfare and environmental costs to animals and human society that must be carefully evaluated before such a trade is sanctioned.

Controversial and thought-provoking, this text focuses on the trade in live and dead animals and animal parts. It examines the facts and figures to quantify the scope of the animal trade, concentrating mainly on farm animals, but also covering captive wildlife and companion animals. The book describes welfare, environmental, economic and cultural issues around this trade, debating important ethical considerations for everyone that uses or is otherwise involved with animals, especially people in animal welfare.

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Livestock Handling and Transport, 4th Edition

Edited by Temple Grandin, Colorado State University, USA

Edited by world-renowned animal scientist Dr Temple Grandin, this practical book integrates scientific research and industry literature on cattle, pigs, poultry, sheep, goats, deer, and horses, in both the developed and developing world, to provide a practical guide to humane handling and minimizing animal stress. Reviewing the latest research on transport systems, restraint methods and facilities for farms and slaughterhouses, this fully updated fourth edition of Livestock Handling and Transport includes new coverage of animal handling in South America, and reviews extensive new research on pig transportation in North America.

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Mason’s World Encyclopedia of Livestock Breeds and Breeding: 2 volume pack

Valerie Porter, Livestock Author, West Sussex, UK, Lawrence Alderson, International consultant on animal genetic resources and Chairman of Countrywide Livestock Ltd., UK, Stephen Hall, Livestock Diversity Ltd., UK, D. Phillip Sponenberg, Virginia Tech, USA

Mason’s World Encyclopedia of Livestock Breeds and Breeding describes breeds of livestock worldwide as well as a range of breed-related subjects such as husbandry, health and behaviour. This definitive and prestigious reference work presents easily accessible information on domestication (including wild ancestors and related species), genetics and breeding, livestock produce and markets, as well as breed conservation and the cultural and social aspects of livestock farming. Written by renowned livestock authorities, these volumes draw on the authors’ lifelong interest and involvement in livestock breeds of the world, presenting a unique, comprehensive and fully cross-referenced guide to cattle, buffalo, horses, pigs, sheep, asses, goats, camels, yak and other domesticants.

Volume 1: contains asses, camelids, cattle, goats, horses and pigs
Volume 2: contains sheep, water buffalo, yak and other livestock

Coverage: Breed descriptions: including groups, types and varieties, history and links between livestock products and trends for creating new breeds

Wild species: ancestral and relatives, potential domesticants and hybridization

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Genetics and Conservation: a dedicated section and glossary of terms

Placing breeds in a practical agricultural context, this two volume encyclopedia will be of great value to agriculturalists, breeders, geneticists, biologists, rural historians, conservationists, ecologists, and all those who are interested in the rich diversity of livestock breeds.

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Edited by Emily Burton, Nottingham Trent University, UK, Joanne Gatcliffe, AB Vista Headquarters, UK, Helen Masey O’Neill, AB Agri Ltd, UK, Dawn Scholey, Nottingham Trent University, UK

Examining sustainable poultry production systems across Europe, this book contains a selected cross section of papers from the 2014 UK Poultry Science Symposium. It reviews essential topics such as resources and supply chains, the global poultry market, risk management, zoonoses and green issues. Providing a compilation of the most current research in the poultry science and production industry, this book is an important resource for both researchers and professionals.

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Veterinarians often come into contact with the law in cases of animal cruelty, domestic animal and wildlife crimes, and human crimes with an animal element. This book provides practical information and training on how to operate within a crime scene. It covers the tests that may need to be carried out, collecting evidence, preparing reports and giving evidence in court as an expert witness.

Concentrating on the basic principles and background knowledge needed, the book includes hair, blood and bite mark analysis as well as an overview of firearms injury. It explores wider concepts such as the human-animal bond and one health, going on to give practical guidance and numerous case studies, which bring the book to life and into the real world of the busy crime scene.

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Maria Soroko, University of Environmental and Life Sciences, Wroclaw, Poland and Mina C G Davies Morel, Aberystwyth University, UK

Equine thermography is one of the most rapidly evolving diagnostic tools in the equine world. The ability of the technique to detect changes in blood circulation, and thereby body surface temperature, makes it a key tool in the detection and ongoing monitoring of equine musculoskeletal disorders.

Evidence-based and yet very practical, Equine Thermography in Practice discusses how to use the tool in the diagnosis of equine musculoskeletal injuries and what the user can expect to see in normal versus injured horses, giving guidelines for best practice. The book builds on basics covering the principles of thermography, and then looks at its applications in equine veterinary medicine and the role of the technique regarding the equestrian athlete, as well as in rehabilitation and physiotherapy.

A unique combination of academic reference work and practical manual, extensively illustrated with full colour images throughout, this book is an important purchase for practitioners at any level using this technique, including equine veterinarians, equine physiotherapists and body work practitioners, saddlers, farriers, equine podiatrists, trainers and riders.

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David Scott, Veterinarian, Carolina Raptor Center, USA

This book is “arranged in a very useful manner and has great information for people of all experience levels. I’m hoping it becomes a staple for all teaching hospitals.”

Dr Dave McRuer, Director of Veterinary Services, Wildlife Center of Virginia, USA

Comprehensive, intensely practical, and extensively illustrated, this unique book consolidates years of practical knowledge of dealing with injured birds of prey. Written by a practicing veterinarian, it:

- concisely covers helpful, day-to-day advice through hints, tips and clinical insights;
- provides an emphasis on practical procedures; and
- includes numerous illustrations for easy recognition of symptoms and replication of techniques.

Outlining everything from handling and the intake examination through to practical procedures and the treatment of a comprehensive range of conditions and injuries, the book also advises readers on housing, rehabilitation and eventual release. Also including numerous rapid reference charts, this book is the one text that any avian or general veterinarian needs by the bench for the treatment of raptors and birds of prey.

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Molecular Epidemiology and Control
Edited by Muhammad Munir, The Pirbright Institute, Compton Laboratory, UK

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Miroslav Kaps, University of Zagreb, Croatia and William R. Lamberson, University of Missouri, USA

Designed to cover techniques for analysis of data in the animal sciences, this textbook provides an overview of the basic principles of statistics enabling the subsequent applications to be carried out with familiarity and understanding, followed by more complex applications and detailed procedures commonly used in animal sciences. Each chapter begins by introducing a problem with practical questions, followed by a brief theoretical background, and is supplemented with an abundance of examples in SAS from animal sciences and related fields.

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Ian Gordon, University College Dublin, Ireland

Building on the successful structure of the first edition, the second edition of Reproductive Technologies in Farm Animals has been totally updated and revised to provide an up to date account of the key techniques employed in manipulating reproduction in farm animals, including beef and dairy cattle, pigs, sheep, goats, buffaloes, camelids, horses and poultry.

A classic introductory text to the subject, the book is based on a comprehensive review of the current literature It:

• outlines different agricultural systems and explores the ethical implications of modern farming methods;
• details the many new developments, including the commercial application of sexed semen and large-scale application of in vitro produced cattle embryos;
• provides a valuable synopsis of current and future reproductive technologies, such as cloning and the production of transgenic animals.

This text remains key reading for students in animal science, agriculture, veterinary medicine and biology, and veterinary practitioners and farmers who wish to keep updated on developments in techniques that may be useful in their daily practice.

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This practical research text provides an invaluable resource for all animal and veterinary scientists designing, analysing and interpreting results from nutrition and feed experiments in pigs and poultry.

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This fully balanced and extensively referenced, yet practical, text is an invaluable resource to all animal, veterinary and biomedical scientists involved in the designing of nutrition experiments in pigs and poultry, and the publication of their research.

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S McOrist, Consultant pig veterinarian, formerly University of Nottingham, UK
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Nutrition and Feeding of Organic Pigs, 2nd Edition

Robert Blair, University of British Columbia, Canada and Sandra A. Edwards, Newcastle University, UK

Organic animal production has increased rapidly in recent years to keep up with the increasing consumer demand for organic meats. There are many guidelines and restrictions on what should go into the feedstuffs of organically farmed animals, from which difficulties arise when trying to ensure a well-balanced nutritious diet without the use of any supplements.

This, the second edition of Robert Blair’s classic and best-selling book on the nutrition and feeding organic pigs, presents advice on formulating appropriate diets and integrating them into organic pig production systems. It outlines the international standards of organic feeding, the breeds of pig that are most suitable for organic farming, up to date information on the nutritional requirements of pigs, and examples of diets formulated to organic standards.

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Bovine Pathology
A Text and Color Atlas

Claus D. Buergelt, Formerly University of Florida, USA,
Edward G. Clark, University of Calgary, Canada and
Fabio Del Piero, Louisiana State University, USA

Illustrated with over 800 superb color images of the highest quality, Color Atlas of Bovine Pathology is a comprehensive single resource to identifying diseases in dairy cattle, feedlot cattle and their calves. With synoptic text describing key features, the book correlates clinical information with pathology and differential diagnoses.

Comprehensive enough for a definitive reference work, yet practical enough to serve as a field guide, the text covers naked-eye and macroscopic appearance, through to microscopic pathology, the immunohistochemistry of infectious agents, and tumor markers. Organized by major organ system, the diseases follow a consistent format and clarity of display. This, combined with an integrated eBook, fact sheets, summary boxes and key points, helps aid understanding as well as being a collection of useful revision tools.

Color Atlas of Bovine Pathology is an essential resource for trainee and diagnostic veterinary pathologists performing bovine necroscopies, as well as for veterinary residents and students. The book is essential for bovine practitioners who need to track down sudden death losses of cattle on the farm by performing postmortem examinations to determine the cause and to take corrective measures.

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