

Animal Welfare

Donald M. Broom  
Ken G. Johnson

# Stress and Animal Welfare

Key Issues in the Biology of Humans and  
Other Animals

*Second Edition*

 Springer

# Stress And Animal Welfare

**Gary P Moberg**



## **Stress And Animal Welfare:**

Stress and Animal Welfare Donald M. Broom, Ken G. Johnson, 2019-11-25 This is the Second Edition of a well received book that reflects a fresh integrated coverage of the concepts and scientific measurement of stress and welfare of animals including humans This book explains the basic biological principles of coping with many forms of adversity The major part of this work is devoted to explaining scientifically usable concepts in stress and welfare A wide range of welfare indicators are highlighted in detail with examples being drawn from man and other species The necessity for combining information from disciplines is emphasized with a one health one welfare approach This information forms the basis for a synthesis of new ideas Among the issues covered are How brain and body systems regulate using feelings physiological responses behaviour and responses to pathology Limits to adaptation Assessing positive and negative welfare during both short term and long term situations Ethical problems and suggested solutions A proper assessment of animal welfare is essential to take informed decisions about what is morally acceptable in terms of practice and in the development of a more effective legislation This work encapsulates a very wide body of literature on scientific aspects of animal welfare and will thus prove a valuable asset for animal welfare scientists psychologists students and teachers of all forms of biology behaviour medicine veterinary medicine and animal usage

**Stress and Animal Welfare** D.M. Broom, K.G. Johnson, 2016-08-22 Stress and Animal Welfare provides students of animal biology with a fresh integrated coverage of the concepts and scientific measurement of the welfare of animals This book is the first to explain the basic biological principles of how animals actually cope with stress and the major part of the work is devoted to explaining scientifically usable concepts in stress and welfare A wide range of stress indicators are highlighted in detail with examples being drawn from man and other species This information forms the basis for a synthesis of now ideas presented here for the first time Among the issues covered are how physical systems are regulated by the body and brain limits to adaptation assessing welfare for both short term and long term responses ethical problems and suggested solutions Proper assessment of animal welfare is essential so that informed decisions can be taken about what is morality acceptable in terms of practice and in the development of more effective legislation This text encapsulates a very wide body of literature on scientific aspects of animal welfare and will prove a valuable asset for students and teachers of animal biology

Stress and Animal Welfare Broom. D. M., K.G. Johnson, 1993 **The Biology of Animal Stress** Gary P. Moberg, Joy A. Mench, 2000 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 The Biology of Animal Stress Gary P. Moberg, Jay A. Mench, 2007 **Animal Stress** Gary P Moberg, 2013-05-27 Based on a recent symposium that brought together experts in behavior nutrition physiology immunology and human and animal medicine this volume presents an up to date discussion of the problems and methods of studying animal stress today Section

one reviews the evolutionary and ontogenetic determinants of animal suffering and the assessment of well being The second section examines biological responses to stress and methods of monitoring stress in animals Section three shows how stress can threaten animal health disrupt normal reproduction and influence growth and metabolism The final section relates the importance of animal stress to developing guidelines on the use of animals in scientific research This is an invaluable reference for exploring these complex responses

**The Science of Animal Welfare** Marian Stamp Dawkins, 2021 In many people's eyes the ability for animals to be able to behave naturally is essential for their welfare However animals do not necessarily want to do behaviour just because it is natural or is seen in wild animals Being chased by a predator is not necessarily good for welfare Natural behaviour is important because it gives us a baseline for what animals might want to do but it cannot define good welfare on its own It has to be validated in exactly the same way as other behavioural correlates of welfare as either contributing to health or being what the animals want to do

**Broom and Johnson Stress and Animal Welfare** The Council for Museums, Archives & Libraries, 1991-10-01

*Biology of Stress in Farm Animals: An Integrative Approach* P.R. Wiepkema, P.W.M. van Adrichem, 1987-06-30 This book contains the contributions to a workshop on stress in farm animals held on April 17-18 1986 at the Pietersberg Conference Centre Oosterbeek The workshop was financed by the Commission of the European Communities from its budget for the coordination of Community Agricultural Research and the Agricultural University of Wageningen The Netherlands Its aim was to bring together experts from different disciplines all having in common that in one way or another they were involved in stress research Such a multidisciplinary encounter should not only provide an interesting description of present day knowledge on stress but also promote a more integrated view on stress phenomena as they occur in higher vertebrates In the course of this workshop the following fields of research were related to stress endocrinology immunology pathology neurobiology ethology and theoretical biology Each of these relationships was introduced by one speaker presenting a concise state of the art The same relationship was elaborated by a second speaker implementing the available knowledge as far as possible to the farm animal situation Therefore in this book each discipline is represented by a duo and introduced by some integrating remarks

Housing, Stress, and Welfare of Sheep and Goats Michael D. Kreger, 1992

Sentience and Animal Welfare Donald M Broom, 2014-08-14 Sentience the ability to feel perceive and experience is central to the animal welfare debate as it raises the question of whether animals experience suffering in life and death This book explores and answers these questions in an objective way based on the latest research and empirical evidence Beginning with an introduction to sentience the book investigates why we are so interested in sentience when as a species humans became sentient and how it has changed over time The book defines aspects of sentience such as consciousness memory and emotions and discusses brain complexity in detail Looking at sentience from a developmental perspective it analyses when in an individual's growth sentience can be said to appear and uses evidence from a range of studies investigating embryos fetuses and young animals to form an enlightening overview of the subject With a

full chapter covering ethical decisions such as animal protection and experimentation this book is not only an invaluable resource for researchers and students of animal welfare and biology but also an engaging and informative read for veterinarians and the general public Sentience the ability to feel perceive and experience is central to the animal welfare debate as it raises the question of whether animals experience suffering in life and death This book explores and answers these questions in an objective way based on the latest research and empirical evidence Beginning with an introduction to sentience the book investigates why we are so interested in sentience when as a species humans became sentient and how it has changed over time The book defines aspects of sentience such as consciousness memory and emotions and discusses brain complexity in detail Looking at sentience from a developmental perspective it analyses when in an individual s growth sentience can be said to appear and uses evidence from a range of studies investigating embryos fetuses and young animals to form an enlightening overview of the subject With a full chapter covering ethical decisions such as animal protection and experimentation this book is not only an invaluable resource for researchers and students of animal welfare and biology but also an engaging and informative read for veterinarians and the general public *Broom and Fraser's Domestic Animal Behaviour and Welfare 6th Edition* Donald M. Broom,2021-11-17 Completely updated and revised and synthesizing the recent explosion in animal welfare literature the sixth edition of this best selling textbook continues to provide a thorough overview of behaviour and welfare of companion and farm animals including fish The introductory section has been completely revised with all following chapters updated redesigned and improved to reflect our changing understanding Written by a world leading expert and key opinion leader in animal behaviour and welfare this text provides a highly accessible guide to the subject It is an essential foundation for any veterinary animal science animal behaviour or welfare focused undergraduate or graduate course **Wild Mammals in Captivity** Devra G. Kleiman,Katerina V. Thompson,Charlotte Kirk Baer,2010-08-15 Zoos aquaria and wildlife parks are vital centers of animal conservation and management For nearly fifteen years these institutions have relied on Wild Mammals in Captivity as the essential reference for their work Now the book reemerges in a completely updated second edition Wild Mammals in Captivity presents the most current thinking and practice in the care and management of wild mammals in zoos and other institutions In one comprehensive volume the editors have gathered the most current information from studies of animal behavior advances in captive breeding research in physiology genetics and nutrition and new thinking in animal management and welfare In this edition more than three quarters of the text is new and information from more than seventy five contributors is thoroughly updated The standard text for all courses in zoo biology Wild Mammals in Captivity will in its new incarnation continue to be used by zoo managers animal caretakers researchers and anyone with an interest in how to manage animals in captive conditions Sex, Stress and Reproductive Success David A. Lovejoy,Dalia Barsyte,2011-04-04 Any events that challenge the survival of living organisms may be classified as stressors These stressors could include for example lack of food increased population pressure predatory pressure climatic events or in

the case of humans loss of a loved one lack of financial security or uncertainty in the future Although most physiological systems are affected by stress those systems that regulate reproductive physiology and behaviour are the most sensitive All multicellular organisms show a stress related effect on reproduction although the more complex organisms such as mammals have the most complex effects The objective of this book is to provide a comparative analysis of the mechanisms by which stress regulates reproduction exploring the evolution of stress perceiving systems from the simplest organisms to humans Taking an integrated approach utilising a genes to environment overview the book examines the stressors that occur at all levels of organisation These theories are used to examine and explain human and animal reproductive behaviour and physiology under stressful conditions providing a well written concise introduction to this important subject

**Understanding the behaviour and improving the welfare of dairy cattle** Prof Marcia Endres,2021-02-23

Particularly strong focus on understanding dairy cattle behaviour as the foundation for improving welfare in such areas as cognition and learning pain and stress as well as social behaviour Covers developments in more animal outcome based welfare indicators as well as advanced sensor acoustic and video techniques for monitoring behaviour and welfare

Comprehensive review of welfare issues across the value chain from calves and heifers to culling The Impact of Therapy

and Pet Animals on Human Stress Lori Kogan,2024-11-13 Stress can have a deleterious effect on people s mental physical and psychological health There is a growing body of evidence however that suggests animals both as pets and therapy partners can help mitigate people s stress levels This book showcases a rich collection of research papers from Human Animal Interactions It highlights research pertaining to pets as well as animal assisted therapy in both school and professional settings The book also includes a scene setting introduction and wrap up conclusion from the editor Providing comprehensive information on the impact of animals on human stress this book is a useful resource for anyone interested in human health or human animal relationships *Stress, Shock, and Adaptation in the Twentieth Century* David

Cantor,Edmund Ramsden,2014 This edited volume brings together leading scholars to explore the emergence of the stress concept and its ever changing definitions since the 1940s Stress is one of the most widely utilized medical concepts in modern society Originally used to describe physiological responses to trauma it is now applied in a variety of other fields and contexts such as in the construction and expression of personal identity social relations building and engineering and the various complexities of the competitive capitalist economy In addition scientists and medical experts use the concept to explore the relationship between an ever increasing number of environmental stressors and the evolution of an expanding range of mental and chronic organic diseases such as hypertension gastric ulcers arthritis allergies and cancer This edited volume brings together leading scholars to explore the emergence and development of the stress concept and its definitions as they have changed over time It examines how stress and closely related concepts have been used to connect disciplines such as architecture ecology physiology psychiatry psychology public health urban planning and a range of social sciences its

application in different settings such as the battlefield workplace clinic hospital and home and the advancement of techniques of stress management in a number of different national sociocultural and scientific locations Contributors Theodore M Brown David Cantor Otniel E Dror Rhodri Hayward Mark Jackson Robert G W Kirk Junko Kitanaka Tulley Long Joseph Melling Edmund Ramsden Elizabeth Siegel Watkins Allan Young David Cantor is acting director Office of History National Institutes of Health Edmund Ramsden is Wellcome Trust University Award Research Fellow at the School of History Queen Mary University of London *Wildlife Welfare* Charlotte Lotta Berg, Henrik Lerner, Andrew Butterworth, Chris Walzer, 2021-01-25

**Stress and Health** Kimberly V. Oxington, 2005 Stress is a physical response to an undesirable situation Mild stress can result from missing the bus standing in a long line at the store or getting a parking ticket Stress can also be severe Divorce family problems an assault or the death of a loved one for example can be devastating One of the most common sources of both mild and severe stress is work Stress can be short term acute or long term chronic Acute stress is a reaction to an immediate threat either real or perceived Chronic stress involves situations that aren't short lived such as relationship problems workplace pressures and financial or health worries Stress is an unavoidable consequence of life As Hans Selye who coined the term as it is currently used noted Without stress there would be no life However just as distress can cause disease it seems plausible that there are good stresses that promote wellness Stress is not always necessarily harmful Winning a race or an election can be just as stressful as losing or more so but may trigger very different biological responses Increased stress results in increased productivity up to a point This new book deals with the dazzling complexity of this good bad phenomenon and presents up to date research from throughout the world

**Livestock Handling and Transport, 6th Edition** Temple Grandin, 2024-12-04 Edited by world renowned animal scientist Dr Temple Grandin this 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 new edition expands on new developments in the field as well as covering the integration of and potential welfare benefits and costs of technological advances such as virtual fencing An important read for animal scientists animal welfare researchers and practitioners and veterinarians this straightforward text is also a valuable resource for stock people and farmers

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