

Animal Welfare

Vol 8 No 4

1999

Guest editorial

Editorial comment

Articles

The ethics of breeding

Improving welfare in dog breeding

Genetic selection for poultry behaviour

Effects of cage enrichment in six strains of mice

Attitudes to ethics, welfare and genetics

A breeding goal for sheep

Should you clone your dog?

Welfare of transgenic mice in BSE bioassays

Short communication

Monitoring transgenic mice

Reports and comments

Book reviews

Books received

1998-99 referees

Index to Volume 8

*Special Issue
Genetics and Animal Welfare*

**UNIVERSITIES
FEDERATION
FOR
ANIMAL
WELFARE**

Animal Welfare

ISSN 0962-7286

Editor-in-Chief: James K Kirkwood

Publications Officer: Helen O'Leary

Typesetter: Samantha Griffin

Universities Federation for Animal Welfare

The Old School, Brewhouse Hill, Wheathampstead, Herts AL4 8AN, UK

Tel: 01582 831818 Fax: 01582 831414

Website: <http://www.ufaw3.dircon.co.uk>

Publications Officer Tel/Fax: 01242 257935

Section Editors

Farmed mammals and fish

Professor Berry M Spruijt

Animal Welfare Centre

Utrecht University

Yalelaan 17

3584 CL Utrecht, The Netherlands

Zoo and wild animals

Dr Miranda Stevenson

Marwell Zoological Park

Colden Common

Winchester

Hampshire SO21 1JH, UK

Ethics and philosophy

Professor Peter Sandøe

Department of Animal Science and Animal Health

The Royal Veterinary and Agricultural University

Groennegaardsvej 8

DK-1870 Frederiksberg C, Denmark

General animal welfare science

Professor David Fraser

Animal Welfare Program

Faculty of Agricultural Sciences and Centre

for Applied Ethics

University of British Columbia

2357 Main Mall, Vancouver, Canada V6T 1Z4

Editorial Advisers

Dr Robert Baker - ANZCCART, University of Adelaide, Australia

Dr M F Bouissou - INRA, Nouzilly, France

Professor D Broom - University of Cambridge, UK

Professor M Stamp Dawkins - University of Oxford, UK

Mr Roger Ewbank - Ealing, London, UK

Dr Michael Festing - University of Leicester, UK

Companion animals

Dr Dennis C Turner

Institute for applied Ethology and Animal Psychology
(IEAP)

Vorderer Siten 30

Postfach 8816 Hirzel, Switzerland

Laboratory animals

Professor Jann Hau

Department of Comparative Medicine

University of Uppsala

Box 570

75123 Uppsala, Sweden

Poultry

Dr Linda Keeling

Department of Animal Environment and Health

Swedish University of Agricultural Sciences

PO Box 234

SE-532 23 Skara, Sweden

Professor Benjamin Hart - University of California, Davis, USA

Mr C Barrie Hart - Berkhamsted, Herts, UK

Professor David Morton - University of Birmingham, UK

Dr James Serpell - University of Pennsylvania, USA

Professor John Webster - University of Bristol, UK

Professor Piet Wiepkema - Oosterbeek, The Netherlands

Animal Welfare (ISSN 0962-7286) brings together the results of scientific research and technical studies related to the welfare of animals kept on farms, in laboratories, as companions, in zoos or managed in the wild.

Subscription rates: Individuals £50/US\$100 per Volume; Corporate/Institutes/Libraries £70/US\$140 per Volume.

Orders: Can be made direct to UFAW and are accepted by Volume, which consists of four issues per year.

Papers: Instructions for authors are summarized on the inside back cover; comprehensive instructions are available on request. Manuscripts should be submitted preferably to the appropriate Section Editor, or to the Editor-in-Chief.

Animal Welfare is abstracted in *Biological Abstracts*; *CAB Abstracts*; *Current Contents/Agriculture, Biology and Environmental Sciences*; *Current Primate References*; *Focus on: Veterinary Science & Medicine*; *Humans & Other Species*; *Research Alert*; *SciSearch*; *Sociological Abstracts*; *Toxicology Abstracts*; *Veterinary Update*; is indexed in *Zoological Record*, and is covered by the *Science Citation Index*.

© 1999 UFAW

All rights reserved; no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means; electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the Publisher. **Opinions expressed by authors do not necessarily reflect the views of UFAW, its Council, Staff, Members or Associates, the Section Editors or the Editorial Advisers.**

Special Issue

*Genetics and Animal
Welfare*

Guest Editors

Professor L F M van Zutphen

Professor P G C Bedford

Animal Welfare

ISSN 0962-7286

Volume 8 Number 4

November 1999

CONTENTS

GUEST EDITORIAL	309
EDITORIAL COMMENT	311
ARTICLES	
Staying good while playing God – the ethics of breeding farm animals	313
<i>P Sandøe, B L Nielsen, L G Christensen and P Sørensen</i>	
Some practical solutions to welfare problems in dog breeding	329
<i>P D McGreevy and F W Nicholas</i>	
Genetic selection for poultry behaviour: big bad wolf or friend in need?	343
<i>R B Jones and P M Hocking</i>	
Strain-specific effects of cage enrichment in male laboratory mice (<i>Mus musculus</i>)	361
<i>C M Nevison, J L Hurst and C J Barnard</i>	
Tower of Babel: variation in ethical approaches, concepts of welfare and attitudes to genetic manipulation	381
<i>M C Appleby</i>	
A breeding goal to improve the welfare of sheep	391
<i>D R Scobie, A R Bray and D O'Connell</i>	
Should you clone your dog? An animal rights perspective on somacloning	407
<i>G Varner</i>	
The welfare problems associated with using transgenic mice to bioassay for bovine spongiform encephalopathy	421
<i>E S Jenkins and R D Combes</i>	
SHORT COMMUNICATION	
Score sheets for the monitoring of transgenic mice	433
<i>C Mertens and T Rüllicke</i>	
REPORTS AND COMMENTS	439
Ethics, morality and animal biotechnology	
<i>Farm Animal Welfare Council Annual Review 1998</i>	
<i>Report of the Animal Procedures Committee for 1998</i>	
Funding for rural conservation or animal welfare activities	
The use of immuno-adjuvants in animals in Australia and New Zealand	
Statistics of scientific procedures 1998	
Newly adopted Recommendations for the keeping of domestic ducks, geese and fur animals	
BOOK REVIEWS	444
<i>Transgenic Animals in Agriculture</i>	
<i>The Ethics of Animal Experimentation</i>	
<i>Equine Reproductive Physiology, Breeding and Stud Management</i>	
<i>Management of Animal Health Emergencies</i>	
<i>The Nutrition of the Rabbit</i>	
<i>The Psychological Well-Being of Nonhuman Primates</i>	
<i>Animals, Disease and Human Society: Human-Animal Relations and the Rise of Veterinary Medicine</i>	
<i>Humans and Other Animals</i>	
BOOKS RECEIVED	455
1998-99 REFEREES	456
INDEX TO VOLUME 8	457

Published by

Universities Federation for Animal Welfare

The Old School, Brewhouse Hill, Wheathampstead, Herts AL4 8AN

Tel: 01582 831818 Fax: 01582 831414