

The contribution of animals to human welfare

Edited by: Temple Grandin

Scientific and Technical Review, Vol. 37 (1), April 2018

This Review discusses how companion animals and livestock can both make a positive contribution to human welfare. Animals improve the welfare of humans in many ways, ranging from providing companionship, improving mental health, facilitating rescues during natural disasters; and finally, for a number of species, as food. Dogs used in therapy, and as aids for people with disabilities, provide important benefits. Moreover, they can also be used to detect drugs and herd livestock. To ensure the welfare of such important partners, good breeding programmes and high-quality veterinary care are essential, and breeders must be careful to avoid producing dogs with congenital issues. Livestock are another contributor to human welfare and are an important part of sustainable farming. Maintaining farmland in good condition is essential for a stable food supply, and several papers discuss research on how grazing livestock can improve farmland. More papers address ethical concerns and possible risks to human health regarding future livestock issues, such as the use of animals (e.g. cattle and pigs) as sources of transplant organs and in producing pharmaceuticals. Humans benefit from animals in many ways and it is essential to ensure that the welfare of the animals is protected.

Format: 29.7 × 21 cm
ISSN: 0253-1933
ISBN: 978-92-95108-54-7
doi: 10.20506/rst.issue.37.1.2735



Ref.: R 37 (1)
Price: 105 euros
288 pages



The 2018 Publications Catalogue is available exclusively online on the OIE website:
www.oie.int/catalogue/OIE_Publications_Catalogue_2018.pdf



World Organisation for Animal Health (OIE)
12 rue de Prony, 75017 Paris, France
Tel.: 33 (0)1 44 15 18 88 – Fax: 33 (0)1 42 67 09 87
Email: oie@oie.int – Website: www.oie.int
OIE E-bookshop: <http://www.oie.int/boutique/>

ORDER FORM

Date: _____

Name: _____

Address: _____

Tel.: _____

Fax: _____

Email: _____

Ref. Quantity Description (Scientific and Technical Review)

R 37 (1) _____ **The contribution of animals to human welfare –
La contribution des animaux au bien-être de l'homme –
Contribución de los animales al bienestar humano –
April 2018 / avril 2018 / abril de 2018 –
(Price / Prix / Precio: 105 €)**

R 37 _____ **Annual subscription for 2018: Vol. 37, issues 1-3
(Price: 260 €)**

Total (€)

airmail postage is included for all countries

Payments to the order of the OIE

Credit card:

Visa Mastercard Eurocard American Express

Expiry date: |____| / |____|

Security code on back of card: |____|

Cardholder name: _____

Cheque, drawn on a French bank, herewith

Please send me a price quote (pro forma invoice)

Signature

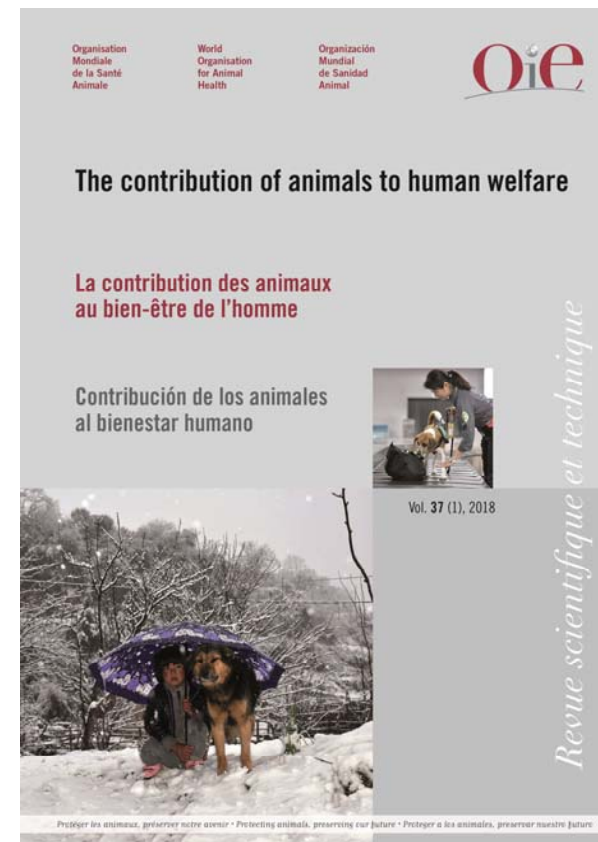
Please return this order form to:
OIE, Publications Sales Office,
12 rue de Prony, 75017 Paris, France
Fax: 33 (0)1 42 67 09 87 – Email: pub.sales@oie.int
OIE Online Bookshop: www.oie.int/boutique/



The contribution of animals to human welfare

La contribution des animaux au bien-être de l'homme

Contribución de los animales al bienestar humano



Edited by: Temple Grandin

Scientific and Technical Review
Volume 37 (1), April 2018

Ce numéro de la *Revue* de l'OIE explique comment les animaux de compagnie et d'élevage peuvent concourir favorablement au bien-être humain. Les animaux améliorent le bien-être de l'homme de nombreuses façons, en lui servant de compagnon et en stimulant sa santé psychologique ; ils facilitent aussi le sauvetage des victimes lors de catastrophes naturelles ; enfin, nombre d'espèces jouent également un rôle alimentaire. Les chiens utilisés dans un cadre thérapeutique et à titre d'aide pour les personnes atteintes d'un handicap offrent des avantages considérables. Ils peuvent aussi servir à déceler la présence de drogues et à rassembler les troupeaux. Pour assurer le bien-être d'un partenaire aussi précieux, de bons programmes d'élevage et des soins vétérinaires de grande qualité sont essentiels et les éleveurs doivent veiller à ne pas sélectionner de chiens présentant des problèmes congénitaux. Les animaux d'élevage contribuent eux aussi au bien-être humain et constituent une composante importante de l'agriculture durable. Le maintien en bon état des terres arables est essentiel pour préserver une réserve de nourriture stable et plusieurs articles dans ce numéro discutent des recherches sur les possibilités d'améliorer les terres cultivables grâce à la pratique du pâturage. Plusieurs articles abordent les préoccupations éthiques et les risques potentiels pour la santé humaine soulevés par les problèmes à venir concernant les animaux d'élevage, notamment l'utilisation d'animaux (par exemple le gros bétail et les porcs) comme sources de greffons et pour la production de produits pharmaceutiques. À de nombreux égards, l'animal est un atout pour l'homme, il est donc essentiel de s'assurer de la protection de son bien-être.

Format : 21 × 29,7 cm
ISSN : 0253-1933
ISBN : 978-92-95108-54-7
doi : 10.20506/rst.issue.37.1.2735



Ref. : R 37 (1)
Prix : 105 euros
288 pages

Contribución de los animales al bienestar humano

Editado por: Temple Grandin

Revista científica y técnica, Vol. 37 (1), abril de 2018

En esta *Revista* se explica el modo en que mascotas y ganado pueden influir positivamente en los niveles de bienestar humano. Los animales aportan bienestar a las personas de muchas maneras: haciendo compañía, contribuyendo a una mejor salud mental y facilitando operaciones de rescate después de catástrofes naturales; algunas especies también proporcionan alimento. El uso de perros con fines terapéuticos o como auxiliares de personas discapacitadas trae consigo importantes beneficios. Los perros también ayudan a detectar drogas y pastorear rebaños. Para asegurar el bienestar de tan importantes compañeros es esencial que existan buenos programas de reproducción, acompañados de una atención veterinaria de calidad, y que los criadores extremen las precauciones para no criar perros afectados de problemas congénitos. El ganado es otra fuente de bienestar humano y componente importante de una producción agropecuaria sostenible. Para contar con un suministro alimentario estable es fundamental mantener en buen estado las tierras de las explotaciones. Varios artículos dan cuenta de estudios sobre el modo en que el ganado de pasto puede mejorar el estado de las tierras. En otros se abordan una serie de interrogantes éticos y posibles riesgos para la salud humana ligados al mundo agropecuario del futuro, con cuestiones espinosas como el uso de animales (p.ej. bovinos y porcinos) como donantes de órganos para trasplantes o para la obtención de productos farmacéuticos. Los animales deparan numerosos beneficios al ser humano, y por ello es indispensable que su bienestar esté protegido.

Formato: 21 × 29,7 cm
ISSN: 0253-1933
ISBN: 978-92-95108-54-7
doi: 10.20506/rst.issue.37.1.2735



Ref.: R 37 (1)
Precio: 105 euros
288 páginas

Contents

M. Éloit

Preface ⁽¹⁾

T. Grandin

Introduction ⁽¹⁾

Contribution of animals to public health

L.L. Iannotti

The benefits of animal products for child nutrition in developing countries ⁽²⁾

A.M. Salter

The effects of meat consumption on global health ⁽²⁾

E.N. Ponnampalam, D.L. Hopkins & J.L. Jacobs

Increasing omega-3 levels in meat from ruminants under pasture-based systems ⁽²⁾

E. Friedmann & C.A. Krause-Parello

Companion animals and human health: benefits, challenges, and the road ahead for human–animal interaction ⁽²⁾

N.L. Selokar & W.A. Kues

How farm animals are improving human health and welfare ⁽²⁾

A.L. Van Eenennaam

The contribution of transgenic and genome-edited animals to agricultural and industrial applications ⁽²⁾

Animals used for improving human medicine

L. Scobie, C. Galli, P. Gianello, E. Cozzi & H.-J. Schuurman

Cellular xenotransplantation of animal cells into people: benefits and risk ⁽²⁾

D. Shaw, W. Dondorp & G. de Wert

Ethical issues surrounding the transplantation of organs from animals into humans ⁽²⁾

L.-M. Houdebine

Production of pharmaceutical proteins by transgenic animals ⁽²⁾

⁽¹⁾ papers written in English, in French and in Spanish

⁽²⁾ papers written in English with French and Spanish summaries

⁽³⁾ papers written in Spanish and English with French summary

Animals used in therapy and service to people with disabilities

A.H. Fine

The role of therapy and service animals in the lives of persons with disabilities ⁽²⁾

K.M. Evans & T.W. Lewis

Preventing skeletal and neurological problems in guide dogs for the blind and other working dogs ⁽²⁾

A.J. Worth & N.J. Cave

A veterinary perspective on preventing injuries and other problems that shorten the life of working dogs ⁽²⁾

J.E. Romero, J. Cepeda, P. Quinn & S. Underwood

Prisoner rehabilitation through animal-assisted activities in Argentina: the *Huellas de Esperanza* prison dog programme ⁽³⁾

Animal issues during natural disasters

C.F. Villarreal, J.U. Rojas & M.X. Ochoa

Operational impact of canine teams in the fight against drug trafficking in Colombia: review of their contribution, strategies and recent trends ⁽³⁾

L.E. Gordon

The contribution of rescue dogs during natural disasters ⁽²⁾

K. Thompson

Facing disasters together: how keeping animals safe benefits humans before, during and after natural disasters ⁽²⁾

Influence of animals on human behaviour

S.C. Underwood, K. Guerschberg, N. Chiesa & J. Puente

The contribution of dogs and other animals to social inclusion programmes ⁽³⁾

M.D. Fraser & R. Rosa García

Mixed-species grazing management to improve sustainability and biodiversity ⁽²⁾

D.P. Sponenberg, J. Beranger, A.M. Martin & C.R. Couch

Conservation of rare and local breeds of livestock ⁽²⁾

⁽¹⁾ papers written in English, in French and in Spanish

⁽²⁾ papers written in English with French and Spanish summaries

⁽³⁾ papers written in Spanish and English with French summary