Bulk Article Reprints

Reprints of articles published in this journal can be purchased for use by your company or organisation. These reprints can be produced as straight article reprints or with custom designed covers and, if required, the sponsor's name printed on or inside the cover. Reprints represent a versatile sales tool for the distribution of up-to-date information on your particular areas – via your sales force, direct mail campaigns and as handouts at major conferences and commercial exhibitions. Reprints can usually be delivered to clients 2-4 weeks after the receipt of the order.

Reprint sales in the UK, Europe and Rest of World

The Advertising Sales Team Cambridge University Press The Edinburgh Building, Shaftesbury Road, Cambridge, UK, CB2 8RU Tel: +44 (0) 1223 325083 Email: ad_sales@cambridge.org

Reprint sales in the Americas

Journals Advertising Coordinator 32 Avenue of the Americas, New York, NY 10013-2473, USA

Tel: +1 (212) 337 5053 Fax: +1 (212) 337 5959

Email: usreprints@cambridge.org



CAMBRIDGE

JOURNALS

animal

Published for The Animal Consortium www.animal-journal.eu

Editor-in-Chief

Michel Doreau, INRA, Clermont-Theix, France

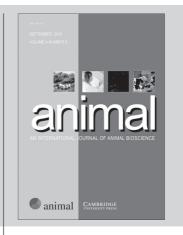
animal publishes original cutting-edge research, 'hot' topics and horizon-scanning reviews on animal-related aspects of the life sciences at the molecular, cellular, organ, whole animal and production system levels.

The main subject areas include: breeding and genetics; nutrition; physiology and functional biology of systems; behaviour, health and welfare; farming systems, environmental impact and climate change; product quality, human health and well-being.

For free online content visit: http://journals.cambridge.org/anmsample

Free email alerts

Keep up-to-date with new content http://journals.cambridge.org/anm-alerts



animal

is available online at: http://journals.cambridge.org/anm

To subscribe contact Customer Services

Americas:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

Rest of world:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

Price Information

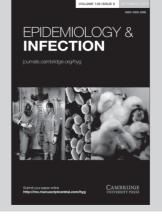
is available at: http://journals.cambridge.org/anm



Epidemiology and Infection

Editor-in-Chief

Norman Noah, London School of Hygiene and Tropical Medicine, UK



Epidemiology and Infection is available online at: http://journals.cambridge.org/hyg

Epidemiology and Infection publishes original reports and reviews on all aspects of infection in humans and animals. Particular emphasis is given to the epidemiology, prevention and control of infectious diseases. The field covered is broad and includes the zoonoses, tropical infections, food hygiene, vaccine studies, statistics and the clinical, social and public health aspects of infectious disease. Papers covering microbiology and immunology, which have an epidemiological relevance, are part of this broad field. Papers come from medical and veterinary scientists worldwide. It has become the key periodical in which to find the latest reports on recently discovered infections and new technology. For those concerned with policy and planning for the control of infections, the papers on mathematical modelling of epidemics caused by historical, current and emergent infections, will be of particular value.

Price information

is available at: http://journals.cambridge.org/hyg

Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/alerts To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

For free online content visit: http://journals.cambridge.org/hyg



Journal of Helminthology

Editor

John Lewis, Royal Holloway, University of London, UK

Journal of Helminthology publishes original papers and review articles on all aspects of pure and applied helminthology, particularly those helminth parasites of environmental health, medical or veterinary importance. Research papers on helminths in wildlife hosts, including plant and insect parasites, are also published along with taxonomic papers contributing to the systematics of a group. The journal will be of interest to academics and researchers involved in the fields of human and veterinary parasitology, public health, microbiology, ecology, epidemiology and biochemistry.

Price information

is available at: http://journals.cambridge.org/jhl

Free email alerts

Keep up-to-date with new material – sign up at http://journals.cambridge.org/jhl-alerts



Journal of Helminthology

is available online at: http://journals.cambridge.org/jhl

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

For free online content visit: http://journals.cambridge.org/jhl



Parasitology

Editor-in-Chief

R. S. Phillips, University of Glasgow, UK

Parasitology is an important specialist journal covering the latest advances in the subject. It publishes original research and review papers on all aspects of parasitology and host-parasite relationships, including the latest discoveries in parasite biochemistry, molecular biology and genetics, ecology and epidemiology in the context of the biological, medical and veterinary sciences. Included in the subscription price are two special issues which contain reviews of current hot topics in parasitology, one of which is the proceedings of the annual Symposium of the British Society for Parasitology, while the second, covering areas of significant topical interest, is commissioned by the editors and the editorial board.

Price information

is available at: http://journals.cambridge.org/par

Free email alerts

Keep up-to-date with new material — sign up at http://journals.cambridge.org/par-alerts



Parasitology

is available online at: http://journals.cambridge.org/par

To subscribe contact Customer Services

in Cambridge:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

in New York:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

For free online content visit: http://journals.cambridge.org/par



CAMBRIDGE

JOURNALS

World's Poultry Science Journal

Published on behalf of The World's Poultry Science Association

Editor

Lucy Waldron, LWT Animal Nutrition Ltd, New Zealand

World's Poultry Science Journal provides authoritative reviews in poultry science and an international forum for the exchange and dissemination of information including research, education and industry organisation. Each issue includes poultry industry-related news, regional reports on global developments in poultry, reports from specialist scientific working groups, book reviews, association news and a calendar of forthcoming events.

Coverage includes breeding, nutrition, welfare, husbandry, production systems, processing, product development, physiology, egg and meat quality, industry structure, economics and education.

The journal is of interest to academics, researchers, students, extension workers and commercial poultry producers.

Submit your research online http://mc.manuscriptcentral.com/wpsj

For free online content visit: http://journals.cambridge.org/wpssample



World's Poultry Science Journal is available online at: http://journals.cambridge.org/wps

To subscribe contact Customer Services

Americas:

Phone +1 (845) 353 7500 Fax +1 (845) 353 4141 Email subscriptions_newyork@cambridge.org

Rest of world:

Phone +44 (0)1223 326070 Fax +44 (0)1223 325150 Email journals@cambridge.org

Free email alerts

Keep up-to-date with new content http://journals.cambridge.org/wps-alerts



Animal Health Research Reviews

Editor-in-Chief

Carlton L. Gyles
University of Guelph, Canada

Founding Editor

Robert P. Ellis

Colorado State University, USA

Section Editors

Physiology and Pharmacology Gerhard Breves, Veterinary School of Hannover, Germany
Parasitology Katherine M. Kocan, Oklahoma State University, USA
Bacteriology Janet MacInnes, University of Guelph, Canada
Food and Environmental Safety Qijing Zhang, Iowa State University, USA
Epidemiology M. D. Salman, Colorado State University, USA
Virology Y. M. Saif, Ohio State University, USA

Editorial Board

Franklin A. Ahrens, *Iowa State University, USA*Chris Chase, *South Dakota State University, USA*Lynette B. Corbeil, *University of California-San Diego Medical Center, USA*

David H. Francis, South Dakota State University, USA
Joachim Frey, University of Berne, Switzerland
Ian Gardner, University of California-Davis, USA
Richard Isaacson, University of Minnesota, USA
Mario Jacques, University of Montreal, Canada
Jeff LeJeune, The Ohio State University, USA
Jun Lin, The University of Tennessee, USA
Joan K. Lunney, USDA-Livestock and Poultry Sciences Institute, USA

Rodney Moxley, University of Nebraska-Lincoln, USA
Prem S. Paul, University of Nebraska-Lincoln, USA
Brian Perry, International Livestock Research Institute, Kenya
Donald L. Reynolds, University of Prince Edward Island, Canada
Linda J. Saif, Obio State University, USA
Ronald D. Schultz, University of Wisconsin, USA
J. Glenn Songer, University of Arizona, USA
Bert E. Stromberg, University of Minnesota, USA
Francisco Suárez-Güemes, Universidad Nacional Autonoma de

Amelia Woolums, *University of Georgia, USA* Dongwan Yoo, *University of Illinois at Urbana-Champaign, USA*

Aims and Scope

Animal Health Research Reviews provides an international vehicle for the publication of reviews and commentaries on all aspects of animal health. The Journal covers both infectious and non-infectious diseases in companion, production and wild animals. Articles may be in-depth reviews of a specific aspect of a disease or pathogen, or may cover all aspects of a disease, but must include new findings or advance new concepts and hypotheses. The Journal publishes both solicited and unsolicited articles. Reviews will normally be 5000–6000 words in length. The Journal is also produced electronically and is available on the Internet. If you wish to write a review please contact the editors at ahrjournal@cambridge.org.

Subscriptions

Animal Health Research Reviews (ISSN 1466-2523) is published twice a year. The subscription price for institutions of Volume 12 (2011) which includes electronic access and delivery by air is £284 (US \$551 in the USA, Canada and Mexico); the electronic only price for institutions is £223 (US \$431 in the USA, Canada and Mexico).

Orders, which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct to the publisher: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK; or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department, 100 Brook Hill Drive, West Nyack, New York, 10994-2133. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Japanese prices for institutions are available from Kinokuniya Company Ltd, P. O. Box 55, Chitose, Tokyo 156, Japan.

Copies of the journal for subscribers in the USA, Canada and Mexico are sent by air to New York to arrive with minimum delay. Periodicals postage paid at New York, NY, and at additional mailing offices. Postmaster: send address changes in the USA, Canada and Mexico to: *Animal*, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133. Claims for missing issues should be made immediately on receipt of the subsequent issue.

Advertising

México, México

Advertising queries for all parts of the world *except* the USA, Canada and Mexico to the Journals Advertising Co-ordinator: Rebecca Curtis, ad_sales@cambridge.org
Address enquiries in the USA, Mexico and Canada *only* to: journals_advertising@cup.org

Copving

This journal is registered with the Copyright Clearance Centre, 222 Rosewood Drive, Danvers, MA 01923, USA.

Organizations in the USA who are also registered with C. C. C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of U.S. Copyright law) subject to promotional or commercial purposes. Code 0266-4674/2011 \$16.00.

ISI Tear Sheet Service, 3501 Market Street, Philadelphia, PA 19104, USA is authorized to supply single copies of separate articles for private use only.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions. *For all other use*, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

Internet Access

This journal is included in the Cambridge Journals Online Service which can be found at www.journals.cambridge.org/ahr

Animal Health Research Reviews

Volume 12 December 2 2011

Opinion: lessons learned from the eradication of rinderpest
Sigfrido Burgos Cáceres
Polymicrobial respiratory disease in pigs
T. Opriessnig, L. G. Giménez-Lirola and P. G. Halbur
Interaction between innate immunity and porcine reproductive and respiratory syndrome virus
Yongming Sang, Raymond R. R. Rowland and Frank Blecha
Detection of O antigens in Escherichia coli
Chitrita DebRoy, Elisabeth Roberts and Pina M. Fratamico
Food systems veterinary medicine
H. Scott Hurd 187
Escherichia coli O157:H7 in beef cattle: on farm contamination and pre-slaughter control methods
J. M. Soon, S. A. Chadd and R. N. Baines
Swine influenza surveillance in East and Southeast Asia: a systematic review
Karen Trevennec, Benjamin J. Cowling, Marisa Peyre, Eugénie Baudon, Guy-Pierre Martineau and François Roger
Epidemiological simulation modeling and spatial analysis for foot-and-mouth disease control strategies: a comprehensive review
Sith Premashthira, Mo D. Salman, Ashley E. Hill, Robin M. Reich and Bruce A. Wagner



MIX
Paper from
responsible sources
FSC® C013436

