

CAMBRIDGE

JOURNALS

Knowledge is no longer shelved

The *Cambridge Journals Digital Archive* contains more than 160 journals, more than 3 million pages and more than 8 million linked references. Knowledge is now more visible and more searchable than ever.



journals.cambridge.org/archives



CAMBRIDGE
UNIVERSITY PRESS

Go Mobile

CJO Mobile (CJOm) is a streamlined
Cambridge Journals Online (CJO)
for smartphones and other
small mobile devices



- Use CJOm to access all journal content including *FirstView* articles which are published online ahead of print
- Access quickly and easily thanks to simplified design and low resolution images
- Register for content alerts or save searches and articles – they will be available on both CJO and CJOm
- Your device will be detected and automatically directed to CJOm via: journals.cambridge.org



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

Rising Impact Factors

▲ In the Thomson Reuters 2010 ▲
Journal Citation Reports®,
Cambridge journals saw an
average increase in Impact Factor
of almost 16.4%.

▲ Cambridge's Humanities and ▲
Social Science journals increased
by 23.7%, against a 0.1% average
increase in the SSCI*.

▲ Cambridge Science, Technology ▲
and Medicine journals increased
by 10.6% in comparison to a 1.8%
average increase in the SCI*.

This picture is based on figure 8 of 'The effect of sudden source buoyancy
flux increases on turbulent plumes', by M.M. Scase, A.L. Aspden & C.P. Caulfield
Journal of Fluid Mechanics, Volume 635

* The comparison of percentage changes refers to those categories that include
Cambridge journals only and not the entire collection of SCI or SSCI journals.



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

Animal Health Research Reviews

Published in collaboration with the Conference of Research
Workers in Animal Diseases

Editor-in-Chief

C. Gyles, *University of Guelph, Canada*

Animal Health Research Reviews provides an international forum for the publication of reviews and commentaries on all aspects of animal health. Papers include in-depth analyses and broader overviews of all facets of health and science in both domestic and wild animals. Major subject areas include physiology and pharmacology, parasitology, bacteriology, food and environmental safety, epidemiology and virology. The journal will be of interest to researchers involved in animal health, parasitologists, food safety experts and academics interested in all aspects of animal production and welfare.

For free online content visit:
<http://journals.cambridge.org/ahrsample>

Free email alerts

Keep up-to-date with new content

<http://journals.cambridge.org/ahr-alerts>



Animal Health Research Reviews
is available online at:
<http://journals.cambridge.org/ahr>

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/ahr>



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

Journal of Dairy Research

Published for the Institute of Food Research and the Hannah Research Institute

Executive Editors

D. G. Chamberlain, *Hannah Research Institute, UK*

E. C. Needs, *Hannah Research Institute, UK*

Journal of Dairy Research publishes original scientific research on all aspects of mammary biology and dairy science including: the physiology, biochemistry, cell biology and endocrinology of lactation; animal husbandry, milk production, composition, preservation, processing and separation; biotechnology and food science; properties of milk proteins and other components; dairy products such as cheese, fermented milks and spreads; relevant studies in bacteriology, enzymology and immunology, the use of milk products in other foods; and the development of methods relevant to these subjects.

View Sample Material

<http://journals.cambridge.org/darsample>

Free email alerts

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



Journal of Dairy Research

is available online at:

<http://journals.cambridge.org/dar>

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



CAMBRIDGE
UNIVERSITY PRESS

CAMBRIDGE

JOURNALS

Epidemiology and Infection

Editor-in-Chief

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

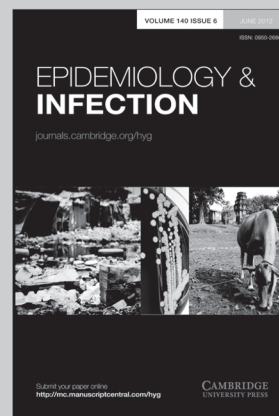
Epidemiology and Infection publishes original reports and reviews on all aspects of infection in humans and animals. Particular emphasis is given to the epidemiology, prevention and control of infectious diseases. The field covered is broad and includes the zoonoses, tropical infections, food hygiene, 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>



Epidemiology and Infection

is available online at:

<http://journals.cambridge.org/hyg>

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>



CAMBRIDGE
UNIVERSITY PRESS

Parasitology

Back volumes. Vols. 1–71: Inquiries should be addressed to Wm. Dawson & Sons Ltd, Cannon House, Folkestone, Kent. Vols. 72 onwards: quotations for parts still in print may be obtained from Cambridge or the American Branch of Cambridge University Press.

Copying. This journal is registered with the Copyright Clearance Center, 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 US copyright law) subject to payment to C.C.C. of the per-copy fee of \$16.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0031–1820/2012 \$16.00.

Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions.

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

For all other use, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

Claims for missing issues can only be considered if made immediately after receipt of the subsequent issue.

Advertising. Details of advertising in Parasitology may be obtained from the publisher.

Online submission. Authors are encouraged to submit their manuscripts online. Go to <http://mc.manuscriptcentral.com/par/> to open an author's account for Parasitology. Manuscript Central is helping to improve the speed of the publication process for the journal.

Front Cover illustration: *Daphnia* infected with *Berwaldia schaefernai*, with (left) and without (right) spore mass proliferating into the host's head. From Weigl *et al.* Vol. 139(7) pp. 870–880.

© Cambridge University Press 2012

The Edinburgh Building, Cambridge CB2 8RU, United Kingdom
32 Avenue of The Americas, New York, NY 10013-2473, USA
477 Williamstown Road, Port Melbourne, VIC 3207, Australia
C/ Orense, 4, Planta 13 28020 Madrid, Spain
Lower Ground Floor, Nautica Building, The Water Club, Beach Road,
Granger Bay, 8005 Cape Town, South Africa

Printed in the UK by MPG Books Ltd

PARASITOLOGY

CONTENTS

REVIEW ARTICLE

- Toxoplasmosis in humans and animals in Brazil: high prevalence, high burden of disease, and epidemiology**
J. P. Dubey, E. G. Lago, S. M. Gennari, C. Su and J. L. Jones 1375

RESEARCH ARTICLES

- Seroprevalence of *Toxoplasma gondii* and *Neospora caninum* infection in dairy cows in subtropical southern China**
M. J. Xu, Q. Y. Liu, J. H. Fu, A. J. Nisbet, D. S. Shi, X. H. He, Y. Pan, D. H. Zhou, H. Q. Song and X. Q. Zhu 1425

- Role of oxidative stress and apoptosis in the cellular response of murine macrophages upon *Leishmania* infection**
Maartje Deschacht, Tim Van Assche, Sarah Hendrickx, Hidde Bult, Louis Maes and Paul Cos 1429

- Description of *Sarcocystis turdusi* sp. nov. from the common blackbird (*Turdus merula*)**
L. Kutkiene, P. Prakas, D. Butkauskas and A. Sruoga 1438

- Apis mellifera* venom induces different cell death pathways in *Trypanosoma cruzi***
Camila M. Adade, Gabriela S. F. Chagas and Thaís Souto-Pradón 1444

- Effects of high-fat chow on heart tissue in acute and chronic experimental murine schistosomiasis mansoni**
V. C. Góes, R. H. Neves, A. C. M. B. Alencar, A. V. Oliveira, D. C. Gomes and J. R. Machado-Silva 1462

- Horizontal transmission of *Thelohania contejeani* in the endangered white-clawed (*Austropotamobius pallipes*) and the invasive signal crayfish (*Pacifastacus leniusculus*)**
Emily M. Imhoff, Robert J. G. Mortimer, Martin Christmas and Alison M. Dunn 1471

- Consistent differences in macroparasite community composition among populations of three-spined sticklebacks, *Gasterosteus aculeatus* L.**
Job de Roij and Andrew D. C. MacColl 1478

- Parasite diversity and microsatellite variability in native and introduced populations of four *Neogobius* species (Gobiidae)**
M. Ondračková, A. Šimková, K. Cíváňová, M. Vyskočilová and P. Jurajda 1493

- The role of the invasive polychaete *Ficopomatus enigmaticus* (Fauvel, 1923) (Serpulidae) as facilitator of parasite transmission in Mar Chiquita coastal lagoon (Buenos Aires, Argentina)**
J. A. Etchegoin, M. J. Merlo and M. Parietti 1506

- Seroepidemiology of *Strongyloides stercoralis* in Dhaka, Bangladesh**
Yasmin Sultana, Gwendolyn L. Gilbert, Be-Nazir Ahmed and Rogan Lee 1513