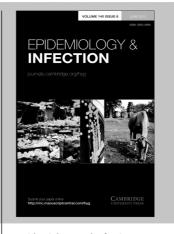
# **C**AMBRIDGE

# **JOURNALS**

# 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





# CAMBRIDGE

# **JOURNALS**

# 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**

**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 0031–1820/2013 \$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:** *Eimeria tenella*: early-stage immature schizonts at 72 h (A) and 2nd generation large immature and mature schizonts at 84 h (B) in the lamina propria; 3rd generation schizonts in the epithelium of the crypts at 96 h (E). From Matsubayashi *et al.* Vol.139(12) pp. 1553–1561.

© Cambridge University Press 2014

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 Bell & Bain

# **PARASITOLOGY**

# **CONTENTS**

REVIEW ARTICLE		The impact of co-infections on the haematological profile of	
Epidemiological review of toxoplasmosis in humans and animals in Romania J. P. Dubey, I. Hotea, T. R. Olariu, J. L. Jones and G. Dărăbuş INVITED REVIEW	311	East African Short-horn Zebu calves Ilana Conradie Van Wyk, Amelia Goddard, B. Mark De C. Bronsvoort, Jacobus A.W. Coetzer, Ian G. Handel, Olivier Hanotte, Amy Jennings, Maia Lesosky, Henry Kiara, Sam M. Thumbi, Phil Toye, Mark W. Woolhouse and	
		Banie L. Penzhom	374
Recent advances in the diagnosis, impact on production and prediction of <i>Fasciola hepatica</i> in cattle J. Charlier, J. Vercruysse, E. Morgan, J. Van Dijk and D. J. L. Williams	326	Phylogenetic relationship of <i>Hepatozoon</i> blood parasites found in snakes from Africa, America and Asia B. Haklová, V. Majláthová, I. Majláth, D. J. Harris, V. Petrilla, T. Litschka-Koen, M. Oros and B. Peťko	389
RESEARCH ARTICLES		Blood parasites in noddies and boobies from Brazilian	
Whole transcriptome analysis of the poultry red mite Dermanyssus gallinae (De Geer, 1778) Sabine Schicht, Weihong Qi, Lucy Poveda and Christina Strube	336	offshore islands – differences between species and influence of nesting habitat Petra Quillfeldt, Javier Martínez, Leandro Bugoni, Patrícia L. Mancini and Santiago Merino	399
The effects of combining <i>Artemisia annua</i> and <i>Curcuma longa</i> ethanolic extracts in broilers challenged with infective oocysts of <i>Eimeria acervulina</i> and <i>E. maxima</i> Gustavo F. D. Almeida, Stig M. Thamsborg, Alda M. B. N. Madeira, Jorge F. S. Ferreira, Pedro M. Magalhães, Luiz C. Demattê Filho, Klaus Horsted and John E. Hermansen	347	Geographic distribution of <i>Theileria</i> sp. (buffalo) and <i>Theileria</i> sp. (bougasvlei) in Cape buffalo ( <i>Syncerus caffer</i> ) in southern Africa: implications for speciation Ronel Pienaar, Abdalla A. Latif, Oriel M. M. Thekisoe and Ben J. Mans	411
Clinical outcome and vertical transmission variability among canine Neospora caninum isolates in a pregnant mouse model of infection  Andrea Dellarupe, Javier Regidor-Cerrillo, Elena Jiménez-Ruiz, Gereon Schares, Juan Manuel Unzaga, María Cecilia Venturini and Luis M. Ortega-Mora	356	Modulation of leukocytic populations of gilthead sea bream (Sparus aurata) by the intestinal parasite Enteromyxum leei (Myxozoa: Myxosporea) Itziar Estensoro, Iván Mulero, María J. Redondo, Pilar Álvarez-Pellitero, Victoriano Mulero and Ariadna Sitjà-Bobadilla	425
In vitro and in vivo activity of the chloroaryl-substituted imidazole viniconazole against <i>Trypanosoma cruzi</i> Cristiane França Da Silva, Denise Da Gama Jaen Batista, Marcos Meuser Batista, Jessica Lionel, Erica Ripoll Hammer,		Sarcocystis species in red deer revisited: with a re-description of two known species as Sarcocystis elongata n. sp. and Sarcocystis truncata n. sp. based on mitochondrial cox1 sequences	
Reto Brun and Maria De Nazaré Correia Soeiro	367	Bjørn Gjerde	441





