

CAMBRIDGE

JOURNALS



# Journal of Helminthology

**Journal of Helminthology**

is available online at  
[journals.cambridge.org/jhl](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](mailto:journals@cambridge.org)

**in New York:**

Phone (845) 353 7500  
Fax (845) 353 4141  
Email  
[subscriptions\\_newyork@cambridge.org](mailto:subscriptions_newyork@cambridge.org)

**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 and biochemistry.

**Price information is available at  
[journals.cambridge.org/jhl](http://journals.cambridge.org/jhl)**

**Free email alerts**

Keep up-to-date with new material –  
sign up at [journals.cambridge.org/register](http://journals.cambridge.org/register)

*For a free online sample visit  
[journals.cambridge.org/jhl](http://journals.cambridge.org/jhl)*



**CAMBRIDGE  
UNIVERSITY PRESS**

CAMBRIDGE

JOURNALS



# Journal of Tropical Ecology

**Journal of Tropical Ecology**  
is available online at  
[journals.cambridge.org/tro](http://journals.cambridge.org/tro)

**To subscribe contact  
Customer Services**

**in Cambridge:**  
Phone +44 (0)1223 326070  
Fax +44 (0)1223 325150  
Email [journals@cambridge.org](mailto:journals@cambridge.org)

**in New York:**  
Phone (845) 353 7500  
Fax (845) 353 4141  
Email  
[subscriptions\\_newyork@cambridge.org](mailto:subscriptions_newyork@cambridge.org)

**Editor**

Ian Turner, Winchelsea, UK

*Journal of Tropical Ecology* publishes papers in the important and now established field of the ecology of tropical regions, either arising from original research (experimental or descriptive) or forming significant reviews. The journal provides a platform for the dissemination of information on all aspects of tropical communities and ecosystems.

Price information is available at  
[journals.cambridge.org/tro](http://journals.cambridge.org/tro)

**Free email alerts**

Keep up-to-date with new material –  
sign up at [journals.cambridge.org/register](http://journals.cambridge.org/register)

For a free online sample visit  
[journals.cambridge.org/tro](http://journals.cambridge.org/tro)



**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 0031–1820/2009 \$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:

Detection of binding of anti-calpain antibodies to *Trypanosoma cruzi* Dm28c epimastigote forms by flow cytometric analysis. From Sengenito *et al.* Vol 136(4) pp. 433–441.

© Cambridge University Press 2009

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  
Ruiz de Alarcón 13, 28014 Madrid, Spain  
Dock House, The Waterfront, Cape Town 8001, South Africa

Printed by Latimer Trend, Plymouth, UK.

# PARASITOLOGY

## CONTENTS

### RESEARCH ARTICLES

**Differentially expressed parasite genes involved in host recognition and invasion of the triactinomyxon stage of *Myxobolus cerebralis* (Myxozoa)**

E. Eszterbauer, D.M. Kallert, D. Grabner and M. El-Matbouli 367

**Identification and molecular characterization of numerous *Histomonas meleagridis* proteins using a cDNA library**

I. Bilic, M. Leberl and M. Hess 379

**Excystation of *Cryptosporidium parvum* at temperatures that are reached during solar water disinfection**

H. Gómez-Couso, M. Fontán-Sainz, J. Fernández-Alonso and E. Ares-Mazás 393

**Is the nestedness of metazoan parasite assemblages of marine fishes from the southeastern Pacific coast a pattern associated with the geographical distributional range of the host?**

M.T. González and M.E. Oliva 401

***Trypanosoma caninum* n. sp. (Protozoa: Kinetoplastida) isolated from intact skin of a domestic dog (*Canis familiaris*) captured in Rio de Janeiro, Brazil**

M.F. Madeira, M.A. Sousa, J.H.S. Barros, F.B. Figueiredo, A. Fagundes, A. Schubach, C.C. de Paula, B.N.S. Faissal, T.S. Fonseca, H.K. Thoma and M.C.A. Marzochi 411

**Natural infection of cattle and tsetse flies in South Africa with two genotypic groups of *Trypanosoma congolense***

M.V. Mamabolo, L. Ntantiso, A. Latif and P.A.O. Majiwa 425

**Arrested growth of *Trypanosoma cruzi* by the calpain inhibitor MDL28170 and detection of calpain homologues in epimastigote forms**

L.S. Sangenito, V. Ennes-Vidal, F.A. Marinho, F.F. Da Mota, A.L.S. Santos, C.M. D'Avila-Levy and M.H. Branquinha 433

**Tick-induced blood loss leads to regenerative anaemia in the European hedgehog (*Erinaceus europaeus*)**

M. Pfäffle, T. Petney, M. Elgas, J. Skuballa and H. Taraschewski 443

**Molecular characterization, expression and localization of a peroxiredoxin from the sheep scab mite, *Psoroptes ovis***

C.M. McNair, A.J. Nisbet, P.F. Billingsley and D.P. Knox 453

**Efficacy of the EG95 hydatid vaccine in a macropodid host, the tammar wallaby**

T.S. Barnes, L.A. Hinds, D.J. Jenkins, G.T. Coleman, A.L. Colebrook, C.T. Kyngdon, C.G. Gauci and M.W. Lightowlers 461