CAMBRIDGE

JOURNALS



Journal of Helminthology

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

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

Free email alerts

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

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



CAMBRIDGE

JOURNALS



Journal of Dairy Research

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

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

Executive Editors

D. G. Chamberlain, Hannah Research Park, UK E. C. Needs, Hannah Research Park, UK

Journal of Dairy Research publishes original scientific research on all aspects of mammary biology and dairy science including: animal husbandry; the physiology and biochemistry of lactation; milk production; biotechnology and food science; relevant studies in bacteriology, enzymology and immunology; and the development of methods relevant to these subjects.

Price information is available at: http://journals.cambridge.org/dar

Free email alerts

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

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



CAMBRIDGE

JOURNALS



The Lichenologist

The Lichenologist

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

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

Senior Editor

Peter D. Crittenden, University of Nottingham, UK

The Lichenologist is the premier scientific journal devoted exclusively to the study of lichens worldwide. As the leading forum for the dissemination of new concepts and topical reviews, *The Lichenologist* reaches more scientists concerned with the study of lichens and lichen symbionts than any other single journal. All aspects of lichenology are considered from systematics and molecular biology to eco-physiology and biogeography.

Price information is available at http://journals.cambridge.org/lic

Free email alerts

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

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



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 0031–1820/2010 \$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: The cover picture shows late stage sleeping sickness: coronal section through the hippocampal brain region in a murine model of arsenical encephalopathy, immunocytochemical staining for GFAP; inset: Sleeping sickness patient undergoing lumbar puncture for stage determination. Images: background from Jean Rodgers, inset from Jeremy Sternberg.

© Cambridge University Press 2010

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 United Kingdom at the University Press, Cambridge

PARASITOLOGY

CONTENTS

Preface: African trypanosomiasis: New insights for disease control Jeremy M. Sternberg, Samuel J. Black and Stefan Magez	1975
Emerging trends in the diagnosis of Human African Trypanosomiasis Magdalena Radwanska	1977
Chemotherapy against human African trypanosomiasis: Is there a road to success? Christian Burri	1987
Trypanosomiasis and the brain Jean Rodgers	1995
A spectrum of disease in Human African trypanosomiasis: the host and parasite genetics of virulence Jeremy M. Sternberg and Lorna MacLean	2007

Current status of vaccination against African trypanosomiasis Stefan Magez, Guy Caljon, Thao Tran, Benoît Stijlemans and Magdalena Radwanska	2017
Bloodstream form trypanosome plasma membrane proteins: antigenic variation and invariant antigens Angela Schwede and Mark Carrington	2029
Induction and regulation of <i>Trypanosoma brucei</i> VSG-specific antibody responses S. J. Black, P. Guirnalda, D. Frenkel, C. Haynes and V. Bockstal	2041
Modulation of innate immunity by African Trypanosomes Donna M. Paulnock, Bailey E. Freeman and John M. Mansfield	2051