

Volume 71 (3) 183–268

September 1997

ISSN 0022–149X

JOURNAL
— *of* —
HELMINTHOLOGY



INTERNATIONAL INSTITUTE OF PARASITOLOGY

An Institute of CAB INTERNATIONAL

JOURNAL of HELMINTHOLOGY

Aims and Scopes

The *Journal of Helminthology* provides an international vehicle for the publication of original papers and review articles on all aspects of pure and applied helminthology, particularly those helminth parasites of environmental health, medical or veterinary importance. For those wishing to contribute research papers, work on helminths in wildlife hosts including plant and insect parasites will also be welcome. Taxonomic contributions will be acceptable if they contribute to the systematics of a group and particularly if they employ biochemical or molecular biological techniques. Research notes are also included.

The *Journal of Helminthology* is published quarterly by CAB INTERNATIONAL.

Editor

Professor John Lewis

Royal Holloway, University of London, UK

Tel: +44 (0)1784 443182 Fax: +44 (0)1784 470756 Email: j.w.lewis@rhbnc.ac.uk

Assistant Editor

Hilary White

International Institute of Parasitology, St Albans, Herts, UK

Tel: +44 (0)1727 833151 Fax: +44 (0)1727 868721 Email: jhelm@cabi.org

Editorial Board

- | | |
|--|--|
| Professor A.E. Bianco, <i>Liverpool School of Tropical Medicine, Liverpool, UK</i> | Professor P.W. Pappas, <i>The Ohio State University, Columbus, USA</i> |
| Professor C. Bryant, <i>The Australian National University, Canberra, Australia</i> | Dr R.N. Perry, <i>IACR - Rothamsted, Harpenden, UK</i> |
| Professor C. Combes, <i>University of Perpignan, France</i> | Dr P. Schantz, <i>Centers for Disease Control, Atlanta, USA</i> |
| Dr A.P. Dobson, <i>Princeton University, USA</i> | Professor Lord Soulsby, <i>Old Barn House, Cambridge, UK</i> |
| Professor B. Fried, <i>Lafayette College, Easton, USA</i> | Professor K. Sugane, <i>Shinshu University School of Medicine, Matsumoto City, Japan</i> |
| Professor D.W. Halton, <i>The Queen's University, Belfast, Northern Ireland</i> | Professor M.G. Taylor, <i>London School of Hygiene & Tropical Medicine, London, UK</i> |
| Professor C.R. Kennedy, <i>University of Exeter, UK</i> | Dr D.P. Thompson, <i>Pharmacia & Upjohn Inc., USA</i> |
| Professor P. Nansen, <i>The Royal Veterinary & Agricultural University, Frederiksberg, Denmark</i> | Professor R.C.A. Thompson, <i>Murdoch University, Perth, Australia</i> |
| | Professor D. Wakelin, <i>University of Nottingham, UK</i> |

The Editor and Editorial Board acknowledge the support of the Director and Scientific staff of the International Institute of Parasitology.

©CAB INTERNATIONAL 1997. All rights reserved.

Published by CAB INTERNATIONAL, Wallingford, UK: New York, USA

Journal of Helminthology

Research Papers

Attwood, S.W., Kitikoon, V. & Southgate, V.R. Infectivity of a Cambodian isolate of <i>Schistosoma mekongi</i> to <i>Neotricula aperta</i> from northeast Thailand.....	183
Barber, I. & Crompton, D.W.T. The ecology of <i>Diplostomum phoxini</i> infections in two minnow (<i>Phoxinus phoxinus</i>) populations in Scotland.....	189
Bohan, D.A. & Hominick, W.M. Sex and the dynamics of infection in the entomopathogenic nematode <i>Steinernema feltiae</i>	197
Caro, A., Combes, C. & Euzet, L. What makes a fish a suitable host for Monogenea in the Mediterranean?	203
López, C., Panadero, R., Díez, P. & Morrondo, P. Development of <i>Neostromylus linearis</i> in <i>Cernuella (Cernuella) virgata</i> experimentally infected and maintained in the subhumid climate of Galicia in northwest Spain	211
Mafiana, C.F., Osho, M.B. & Sam-Wobo, S. Gastrointestinal helminth parasites of the black rat (<i>Rattus rattus</i>) in Abeokuta, southwest Nigeria.....	217
Owhashi, M., Horii, Y. & Ishii, A. IgE response in schistosomiasis japonica: characterization of a cercarial allergen in comparison with purified egg allergens.....	221
Papadopoulos, H., Himonas, C., Papazahariadou, M. & Antoniadou-Sotiriadou, K. Helminths of foxes and other wild carnivores from rural areas in Greece.....	227
Permin, A., Magwisha, H., Kassuku, A.A., Nansen, P., Bisgaard, M., Frandsen, F. & Gibbons, L. A cross-sectional study of helminths in rural scavenging poultry in Tanzania in relation to season and climate.....	233
Scholz, T. Life cycle of <i>Bothriocephalus claviceps</i> , a specific parasite of eels.....	241
Singh, S., Yadav, C.L. & Banerjee, D.P. Comparison of the post-parturient rise in faecal egg counts of indigenous and cross-bred ewes	249
Skerrett, H. & Holland, C.V. Variation in the larval recovery of <i>Toxocara canis</i> from the murine brain: implications for behavioural studies.....	253
Research Notes	
Fujino, T., Ichikawa, H., Fried, B. & Fukuda, K. The expulsion of <i>Echinostoma trivolvis</i> : worm kinetics and intestinal reactions in C3H/HeN mice treated with dexamethasone.....	257
Mutafova, T., Nedeva, I. & Kanev, I. Chromosomes of <i>Acanthocephalus lucii</i>	261
Reddy, A. & Fried, B. Intra- and interspecific pairing of rediae and sporocysts of five species of digenetic trematodes	263
Regunathan, J., Jayaraman, K. & Kaliraj, P. Cellular immune response studies in bancroftian filariasis.....	265
Book Review	268

Journal of Helminthology is covered in *Current Contents®/Agriculture, Biology & Environmental Sciences*, *SciSearch®*, *Research Alert®*, *BIOSIS*, *CAB ABSTRACTS*, and *Excerpta Medica*

Journal of Helminthology

Volume 71 1997

ISSN: 0022-149X

Publishing, Production, Marketing, and Subscription Sales Office:

CAB INTERNATIONAL

Wallingford

Oxon OX10 8DE

UK

Tel: +44(0)1491 832111

Fax: +44 (0)1491 826090

Email: cabi@cabi.org

Telex: 847964 (COMAGG G)

For Customers in North America:

CAB INTERNATIONAL

198 Madison Avenue

New York

NY 10016

USA

Tel: 212 726 6490 or 212 726 6491

[Toll-free: 1800 528 4841]

Fax: 212 686 7993

Email: cabi-nao@cabi.org

CAB INTERNATIONAL also has regional offices in Malaysia, Trinidad & Tobago, and Kenya.

Publisher: Philip Edge

Publishing Editor: David Nicholson

Product Manager (Marketing): Tania Fisher

The *Journal of Helminthology* is an international journal published quarterly by CAB INTERNATIONAL in March, June, September and December.

Special sales and supplements:

This journal accepts advertising and inserts. We also provide bulk reprints of suitable papers to meet teaching or promotional requirements. The journal also publishes abstracts and proceedings on behalf of academic and corporate sponsors. Please contact David Nicholson at the Wallingford address for further details.

Subscription information:

The subscription rates for Volume 71, 1997 (4 issues) are:

Non-member country: £140.00

Member Country*: £112.00

US Dollars (Americas only): \$245.00

(* Member Countries include UK, Canada, India, China, Australia, New Zealand. For a full list please apply to CAB INTERNATIONAL.)

Japanese Agent: Maruzen Company Ltd, PO Box 5050, Tokyo International, 100-31, Japan

Personal subscription and multiple year subscription discounts are available on request: please contact the Product Manager at the address above.

Any **supplements** to this journal published in the course of the annual volume are normally supplied to subscribers at no extra charge

Back volumes are available. Please contact CAB INTERNATIONAL for further information.

Claims for non-receipt of journal issues will be considered on their merit and only if the claim is received within six months of publication. Replacement copies supplied after this date will be chargeable.

Despatch: deliveries outside the UK are by ASP Printflow Airsaver unless other arrangements are made. Customers requiring airmail delivery should indicate clearly their requirements and add an additional 10% to the relevant subscription price.

US POSTMASTERS: please send address corrections to CAB INTERNATIONAL at the Wallingford address.

Information for Authors

Three copies of the manuscript and artwork should be sent to:

The Editorial Office

Journal of Helminthology

International Institute of Parasitology

395A Hatfield Road

St Albans

Herts AL4 0XU, UK

Notes for Authors are available from this address if not printed in this issue of the journal.

Offprints: The author (or main author) of an accepted paper will receive 50 free offprints and a copy of the journal issue in which their paper is published. Additional offprints are available for a fee and should be ordered at proof stage. **No page charges are levied by this journal.**

Copyright: CAB INTERNATIONAL, 1997. All rights reserved: permission for reproduction of any part of the journal (text, figures, tables or other matter) in any form (on paper, microfiche or electronically) should be sought directly from the Publisher, or a licence permitting restricted copying obtained from the Copyright Licensing Agency, Tottenham Court Road, London W1P 9HE, UK, or in the USA by the Central Clearance Center, 27 Congress Street, Salem MA01970.

Disclaimer: The information contained herein, including any expression of opinion and any projection or forecast, has been obtained from or is based upon sources believed by us to be reliable, but is not guaranteed as to accuracy or completeness. The information is supplied without obligation and on the understanding that any person who acts upon it or otherwise changes his/her position in reliance thereon does so entirely at his/her own risk.

CAB INTERNATIONAL does not accept responsibility for any trade advertisement included in this publication.

This journal is printed on acid-free paper from renewable sources
Printed at the University press, Cambridge.