

Systematic Parasitology

Editor-in-Chief:

Dr. D. I. Gibson, *Dept. of Zoology, The Natural History Museum, London*

Systematic Parasitology publishes papers on the systematics, taxonomy and nomenclature of the following groups: Nematoda (including plant-parasitic), Monogenea, Digenea, Cestoda, Acanthocephala, Aspidogastrea, Cestodaria, Arthropoda (parasitic copepods, hymenoptera, mites, ticks, etc.), Protozoa (parasitic groups), and parasitic genera in other groups, such as Mollusca, Turbellaria, etc.

Systematic Parasitology publishes fully illustrated research papers, brief communications, and fully illustrated major divisions.

In order to maintain high standards, all contributors describing new taxa are asked to state clearly where the holotype is deposited and to make paratypes available for examination by the referees. It is recognized that, in some cases, this may cause problems for the authors, but it is hoped that by adhering to this rule authors may be protected against rapid synonymization of their taxa, and the types will be preserved for posterity.

Systematic Parasitology is abstracted and/or indexed in *Current Contents*, *Vital Notes on Medical Periodicals*, *Current Awareness in Biological Sciences*, *Bibliography of Agriculture (Agricola)*.

Subscription Information

ISSN 0165-5752

1991, Volumes 18-20 (9 issues)

Subscription rate: Dfl.768.00/US\$436.50 *incl. postage and handling*

Private rate: Dfl.384.00/US\$217.50 *incl. postage and handling*

P.O. Box 322, 3300 AH Dordrecht, The Netherlands
P.O. Box 358, Accord Station, Hingham, MA 02018-0358, U.S.A.

Journal Highlight

**KLUWER
ACADEMIC
PUBLISHERS**



PARASITE IMMUNOLOGY

Editors

G.A.T. Targett *London School of Hygiene and Tropical Medicine, London, England*

Bridget M. Ogilvie *Wellcome Trust, London, England*

Parasite Immunology is an international journal devoted to research on parasite immunology in the general sense. Emphasis is placed on how hosts control parasites, and the immunopathological reactions which take place in the course of parasitic infections. The journal welcomes original work on all parasites: helminths, fungi, protozoa, ectoparasites, bacteria and viruses. Each issue covers the spectrum of parasite immu-

nology through the original papers published, and through 'viewpoint' articles, designed to interest as well as instruct.

Subscription Information

Parasite Immunology is published bi-monthly. Subscription rates for 1991 are £165.00 (UK), £185.00 (overseas) and US\$337.50 (USA & Canada) post free.

Order Form

Please tick the appropriate box and return to the address below:

- I would like to subscribe to *Parasite Immunology*
- I wish to pay by cheque and enclose the sum of £ _____ US\$ _____
- I wish to pay by Access/American Express/Barclaycard/Diners Card/
VISA/Mastercard (delete as necessary)

Please debit my credit card no.

Expiry date / / with the sum of £ _____ US\$ _____

Signature _____ Date / /

- Please send me a specimen copy of *Parasite Immunology*

Name _____

Address _____

BSP

Blackwell Scientific Publications

- JOURNALS -

Osney Mead, Oxford OX2 0EL Tel: (0865) 240201

Continued from back cover

McKay, D. M., Fairweather, I., Johnston, C. F., Shaw, C. and Halton, D. W. Immunocytochemical and radioimmunometrical demonstration of serotonin- and neuropeptide – immunoreactivities in the adult rat tapeworm, <i>Hymenolepis diminuta</i> (Cestoda, Cyclophyllidea)	275
Asaolu, S. O., Holland, C. V. and Crompton, D. W. T. Community control of <i>Ascaris lumbricoides</i> in rural Oyo State, Nigeria: mass, targeted and selective treatment with levamisole	291
Nellaiappan, K., Ramakrishnan, R. and Jameela Banu, M. Evidence for the presence of quinone methide isomerase in the metacercarial cyst of <i>Microphallus</i> sp. (Trematoda: Microphallidae)	299
Healer, J., Ashall, F. and Maizels, R. M. Characterization of proteolytic enzymes from larval and adult <i>Nippostrongylus brasiliensis</i>	305
Chacon, M. R., Parkhouse, R. M. E., Robinson, M. P., Burrows, P. R. and Garate, T. A species-specific oligonucleotide DNA probe for the identification of <i>Meloidogyne incognita</i>	315

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, 27 Congress Street, Salem, Mass. 01970. 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 \$5.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0031–1820/91 \$5.00 + .00.

ISI Tear Sheet Service. 3051 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.

Parasitology

CONTENTS

	PAGE
Ben Musa, N. and Phillips, R. S. The adaptation of three isolates of <i>Babesia divergens</i> to continuous culture in rat erythrocytes	165
Bonnin, A., Dubremetz, J. F. and Camerlynck, P. Characterization and immunolocalization of an oocyst wall antigen of <i>Cryptosporidium parvum</i> (Protozoa: Apicomplexa)	171
Ibrahim, S. A. M. and Nowell, F. Transfer of <i>Eimeria apionodes</i> from wood mice (<i>Apodemus sylvaticus</i>) to laboratory mice (<i>Mus musculus</i>)	179
Ohsawa, K., Tanabe, K., Kimata, I. and Miki, A. Ultrastructural changes associated with reversal of chloroquine resistance by verapamil in <i>Plasmodium chabaudi</i>	185
Sinden, R. E. Asexual blood stages of malaria modulate gametocyte infectivity to the mosquito vector – possible implications for control strategies	191
Bhaumik, M., Das, S. and Adhya, S. Evidence for translational control of β -tubulin synthesis during differentiation of <i>Leishmania donovani</i>	197
Piper, K. P., Mott, R. F., Hockley, D. J. and McLaren, D. J. <i>Schistosoma mansoni</i> : larval damage and role of effector cell(s) in the synergy between vaccine immunity and Praziquantel treatment	207
Dunne, D. W., Jones, F. M. and Doenhoff, M. J. The purification, characterization, serological activity and hepatotoxic properties of two cationic glycoproteins (α_1 and ω_1) from <i>Schistosoma mansoni</i> eggs	225
Jones, S. R. M. and Woo, P. T. K. Culture characteristics of <i>Trypanosoma catostomi</i> and <i>Trypanosoma phaleri</i> from North American freshwater fishes	237
Sutherland, I. A., Peregrine, A. S., Lonsdale-Eccles, J. D. and Holmes, P. H. Reduced accumulation of isometamidium by drug-resistant <i>Trypanosoma congolense</i>	245
Cable, J. and Tinsley, R. C. Intra-uterine larval development of the polystomatid monogeneans, <i>Pseudodiplorchis americanus</i> and <i>Neodiplorchis scaphiopodis</i>	253
Smith, S. A. and Richards, K. S. Ultrastructure and microanalyses of the protoscolex hooks of <i>Edinoëoccus granulosus</i>	267

Continued inside back cover

© Cambridge University Press 1991

The Pitt Building, Trumpington Street, Cambridge CB2 1RP
 40 West 20th Street, New York, NY 10011-4211, USA
 10 Stamford Road, Oakleigh, Victoria 3166, Australia

Printed in Great Britain by the University Press, Cambridge