Parasitology for the 21st Century

Edited by M Ziya Alkan and M Ali Özcel, ICOPA Secretariat, Izmir, Turkey

This volume provides a reflective summary of research in parasitology in the late 20th Century combined with a vision of the major challenges and potential successes in the 21st Century. It has been compiled from selected papers presented at the Eighth International Congress of Parasitology (ICOPA). A wide variety of topics are covered including medical, veterinary, and plant parasitology, by contributors from many different countries. Chapters within the book consider current research on the biology of parasites, and new strategies in the transmission and control of parasitic diseases.

This book represents an invaluable resource for all parasitologists. Not only is it an up-to-date summary of research, but it is also a thought provoking look at the future.

Contents:

- New dimensions for parasitology in the 21st century, T Godal
- Training in parasitology, R Houin
- Immunity to human leishmaniasis, H A Kuffo et al.
- Immunoregulation in visceral leishmaniasis, E M Carvalho
- Epidemiology of visceral leishmaniasis and its control, R C Mahajan and K Mohan
- Vaccination against visceral leishmaniasis using a pure parasite protein, C L Jaffe, N Rachamim and R Sarfstein
- Visceral leishmaniasis (VL) in Iran and the role of seratological tests in diagnosis and epidemiological studies, *Gh H Edrissian*
- Differential cause of T-cell non-responsivesness to *Plasmodium falciparum* antigens in healthy individuals and in acutely III malaria patients, *L Hviid*
- Iron, oxidant stress and malaria, J Golenser
- Immunogenicity of multiple peptides (MAPs) containing T- and B-cell epitopes of *Plamodium* falciparum CS proteins, E H Nardin et al.
- Cell biology of the Giardia lamblia life cycle, F D Gillin et al.
- Metabolic disturbances in children with chronic giardiasis, N N Taneli
- Amoebae in relationship with bacteria in their environment, C Harf
- Molecular and cellular biology of invasion by Entamoeba histolytica, S R Reed et al.
- Multidrug resistance gene family in Entamoeba histolytica, P Ayala et al.
- Cytoskelton activities in pathogenic Entamoeba histolytica, N Guillen et al.
- Infection sources, reservoir and transmission of pneumocystosis, E Dei-Cas et al.
- Schistosomiasis and foodborne trematode infections: diseases of social dimensions, K E Mott
- Genetic variability in parasitic helminths, D P McManus
- Allergic reactivity and helminthic infection, *N R Lynch*
- Protective immune mechanisms against Echinococcus multilocularis, B Gottstein
- Host-Metacestode interplay: the role of macrophages, J B Dixon
- Epidemiology and epidemiologic research methods their application in parasitic disease investigation, K C Shekhar
- Importance of adominal angiostrongylosis in the Americas, P Morera
- PCR-based detection and typing of parasites, *G L McLaughlin et al.*

Readership: Parasitologists and others concerned with human health (especially tropical medicine) and veterinary science.

January 1996 304 pages HB

ISBN 0 85198 777 2 Price: £55.00 (US\$99.00 Americas only)

For further information or to order please contact CAB INTERNATIONAL headquarters or an exclusive CAB INTERNATIONAL distributor in your area. *Please add £2.00 per book postage and packing (excluding UK).*

CAB INTERNATIONAL

Headquarters, Wallingford, Oxon OX10 8DE, UK. Tel: (01491) 832111 Telex: 847964 (COMAGG G) Fax: (01491) 833508 E-mail: cabi@cabi.org North America, 845 North Park Avenue, Tucson, Arizona 85719, USA. Tel: 800/528-4841 520/621-7897) Fax: 520/621-3816 E-mail: cabi-na@cabi.org Africa, PO Box 76520, Nairobi, Kenya. Tel: Nairobi 747 340/337 Telex: 22040 ILRAD (KE) (for IIBC Muguga) Fax: Nairobi 747 340 E-mail: cabi-iaro@cabi.org Asia, PO Box 11872, 50760 Kuala Lumpur, Malaysia. Tel: (03) 255 2922 Telex: 28031 (MA CABI) Fax (03) 255 188 E-mail: cabi-aro@cabi.org Carribean, Gordon Street, Curepe, Trinidad and Tobago. Tel: 809 662 4173 Telex: 24438 (CARIRI) Fax: 809 663 2859 E-mail: cabi-cro@cabi.org

NOTES FOR AUTHORS

The Journal of Helminthology publishes papers and reviews 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.

Page Format. The *Journal* is printed in a two-column format (column width of 80 mm) with a text area of 170×225 mm.

Text. Papers should be typed, on one side of the paper only, with double line spacing and ample margins (at least 1.5 cm) on each side with no underlining or bold in text except for scientific names. Draft quality print from a word-processor is not acceptable. Standard abbreviations (e.g. fig. and figs) and metric units must be used.

When the paper has been accepted word-processed text stored on floppy disc is encouraged, proving the software is IBM/DOS compatible, but floppy discs must be accompanied by a hard copy. This will enable papers to be handled rapidly, and with fewer type-setting errors.

Abstract. Each paper must commence with a carefully prepared, accurate, informative abstract, in one paragraph, that is complete in itself and intelligible without reference to text or figures. It should not exceed 250 words. A short title should be provided as a running head.

Tables. Tables should be reduced to the simplest form, and should not be used where text or illustrations give the same information. They should be submitted on separate sheets at the end of the article and must fit conveniently into single column, full width or landscape (if absolutely necessary) format. Table captions should be typed on a separate sheet.

Illustrations. Copies only of artwork should be submitted. The original illustrations should accompany the paper after acceptance and revision. Text figures, line drawings, computer-generated figures and graphs should be of sufficient size and quality to allow for reduction by half or two-thirds. Halftone photographs are acceptable where they are a real contribution to the text. They should be glossy prints of the same size as they are to appear in the Journal. All figures and letters on photographs must be inserted by the author. Figure and captions should be typed on a <u>separate sheet</u>.

Voucher specimens. The deposition of voucher specimen should be considered where appropriate.

References. References must be based on the name and year system, give full journal titles and conform to the following styles:

- Grønvold, J., Wolstrup, J., Larsen, M., Henriksen, S.A.
 & Nansen, P. (1993) Biological control of Ostertagia ostertagi by feeding selected nematode-trapping fungi to calves. Journal of Helminthology 67, 31–36.
- Grove, D.I. (1990) A history of human helminthology. 850 pp. Wallingford, CAB International.
- Southgate, V.R. & Rollinson, D. (1987) Natural history of transmission and schistosome interactions. pp. 347–378 in Rollinson, D. & Simpson, A.J.G. (Eds) The biology of schistosomes: from genes to latrines. London, Academic Press.

Citation of authors in the text should appear in the form: Polaszek (1990) or (Polaszek, 1990). More than one author should be cited in chronological order as: (Holloway et al., 1987; Walker & Huddleston, 1988).

Offprints. 50 copies of each paper are provided free to the author (or major author) of each paper. Further copies may be obtained on payment, and the number required should be specified and ordered at proof stage.

Manuscript. Three copies of the manuscript, which must be in English or French (with an English summary) should be accompanied by a letter signed by all the authors and together with artwork submitted to:

> The Editor Journal of Helminthology International Institute of Parasitology 395A Hatfield Road St Albans, Herts AL4 0XU, UK.

JUNE 1996

Journal of Helminthology

Research Papers	
Almeda, J., Ascaso, C., Marçal, G.A., Corachan, M., Southgate, V.R. & Rollinson, D.	
Morphometric variability of Schistosoma intercalatum eggs: a diagnostic dilemma	97
Bentley, C.R. & Hurd, H. Carbohydrate titres in the haemolymph and midgut glands of	
Gammarus pulex infected with the acanthocephalan Pomphorhynchus laevis	103
Fenoy, S., Cuellar, C. & Guillen, J.L. Seroprevalence of toxocariasis in children and adults in	
Madrid and Tenerife, Spain	109
Fujino, T. & Fried, B. The expulsion of Echinostoma trivolvis from C3H mice: differences in	
glycoconjugates in mouse versus hamster small intestinal mucosa during infection	115
Goggin, C.L. & Newman, L.J. Use of molecular data to discriminate pseudocerotid turbellarians	123
Nie, P., Hoole, D. & Arme, C. Proliferation of pronephric lymphocytes of carp, Cyprinus carpio	
induced by extracts of Bothriocephalus acheilognathi	127
Nollen, P.M. Mating behaviour of Echinostoma caproni and E. paraensei in concurrent infections in	
mice	133
Sharma, P.N., Rai, N. & Brennan, G.P. Ultrastructure of the tegument of the trematode	
Ganeo tigrinum parasitizing the intestine of Indian frogs	137
Sommer, C. Digital image analysis and identification of eggs from bovine parasitic nematodes	143
Sugane, K., Kusama, Y., Takamoto, M., Tominaga, A. & Takatsu, K. Eosinophilia, IL-5 level and	
recovery of larvae in IL-5 transgenic mice infected with Toxocara canis	153
Wahid, F.N. & Behnke, J.M. Genetic control of acquired resistance to Heligmosomoides polygyrus:	
overcoming genetically determined weak responder status by strategic immunization	
with ivermectin-abbreviated infections	159
Research Notes	
Research Notes	
macroslama	169
Choch NK Sinha Bahu S.P. Sukul N.C. & Ito A Cestoridal activity of Acacia auriculiformis	171
Hata H Optimum concentrations of essential components for the development of Augiostrongulus	
contarionesis in vitro	173
Costar (Censis II) vitto anataria	110

© CAB INTERNATIONAL, 1996

All rights reserved. No part of this publication may be reproduced, in any form or by any means, electronically, mechanically, by photocopying, recording or otherwise, without prior permission of the copyright owner.