

The Ecology of Ectoparasitic Insects

Adrian G. Marshall

November 1981, xviii + 446pp., £33.80 (UK only) / \$69.50, 0.12.474080.4

This book is the first to examine comprehensively the ecology of ectoparasitic insects. Introductory chapters examine the taxonomic background of both the insects and their vertebrate hosts, the ectoparasite's habitat and methods of field and laboratory study. Subsequent chapters examine life-cycles, food and feeding methods, host location and dispersal, host associations, maintenance on or near the host, interrelationships with organisms other than the host, population dynamics and ectoparasites, and host health. Each chapter is prefaced by a brief synopsis which outlines its contents and the book concludes with a discussion of possible directions for future research.

Advances in Parasitology

Volume 19

edited by W. H. R. Lumsden (Senior Editor), R. Muller and J. R. Baker

1981, x + 226pp., £16.40 (UK only) / \$39.50, 0.12.031719.2

This long-running series has gained a reputation for its detailed and original reviews on a variety of subjects within the field of parasitology. Volume 19, the latest in the series, deals with three groups of parasites — Cestodaria, Acanthocephala and Copepoda — which are not commonly dealt with in review articles. The present editors have broadened their policy to admit for review any group of organisms whose members follow the parasitic mode of life, emphasizing areas of parasitology which have advanced significantly at the time of writing.

Acta Virologica

Editors

D. Blaškovič (Bratislava)

O.G. Andzhaparidze (Moscow)

Executive Editor: V. Valenta (Bratislava)

Editorial Board

I. Bejádi, L. Borecký, J. Brill, N. Cajal, Chen Si Un, E. Geißler, J.Z. Ghendon, M. Kantoch, F. Patočka, H. Röhrer, B.F. Semenov, L. Shinarov, L. Stojkovič, A.L. Terzin, A. Toshov.

Although comparatively young — it was founded only in 1957 — this journal has become well established throughout the world. Published bi-monthly, each issue contains the results of original research, reports on virological undertakings and events, and book reviews.

The journal is well produced with typography and illustrations of a good standard. It represents a valuable source of information for all those interested in general, medical and veterinary virology as well as rickettsiology. Papers on viruses affecting plants, invertebrates and bacteria are also published.

Publication: 5 issues per year (1982 only)

Subscription: Volume 26, 1982

£43.00 (UK) \$ 91.00 (overseas)

From Recent Issues:

A. Maly, A. Šulová, M. Travnicek, M. Dvořák and J. Říman: Translation of genomic avian myxoblastosis virus RNA in a cell-free protein synthesis system from rabbit reticulocytes. T.E. Medvedeva, M.A. Gordon, G.I. Aleksandrova and A.A. Smorodintsev: Experimental basis of enhancing the immunogenicity of influenza B virus by genetic recombination.

**Academic
Press**



A Subsidiary of Harcourt Brace Jovanovich, Publishers
London New York Toronto Sydney San Francisco
24-28 Oval Road, London NW1 7DX, England
111 Fifth Avenue, New York, NY 10003, USA

PARASITOLOGY

SUBSCRIPTIONS may be sent to any bookseller or subscription agent or direct to Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 2RU. Subscriptions in the U.S.A. and Canada should be sent to Cambridge University Press, 32 East 57th Street, New York, N.Y. 10022. All orders must be accompanied by payment. The subscription price of volume 84, 1982, is £47.00 net (including postage) for a volume of four parts (US \$129.00 in the U.S.A. and Canada) and for volume 85, 1982, £35.00 net (including postage) for a volume of three parts (US \$96.00 in the U.S.A. and Canada) payable in advance (£82.00 or US \$225.00 per year); separate parts cost £13.00 net or US \$36.00 each (plus postage).

BACK VOLUMES. Vols. 1-39: Inquiries should be addressed to Wm. Dawson & Sons Ltd, Cannon House, Folkestone, Kent. Vols. 40 onwards: quotations for parts still in print may be obtained from the Cambridge or New York offices of the Cambridge University Press.

COPYING. This journal is registered with the Copyright Clearance Center, 21 Congress Street, Salem, Mass. 01970. Organizations in the U.S.A. who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of U.S. copyright law) subject to payment to C.C.C. of the per-copy fee of \$02.00. This consent does not extend to multiple copying for promotional or commercial purposes. Code 0031-1820/82/0080-0001 \$02.00.

ISI TEAR SERVICE, 3501 Market Street, Philadelphia, Pennsylvania 19104, U.S.A., is authorized to supply single copies of separate articles for private use only.

FOR ALL OTHER USE, permission should be sought from the Cambridge or New York offices of the 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

Volume 85, Part 2, October 1982

CONTENTS

	PAGE
SCOTT, MARILYN E. Reproductive potential of <i>Gyrodactylus bullatarudis</i> (Monogenea) on guppies (<i>Poecilia reticulata</i>)	217
HOLMES, S. D. and FAIRWEATHER, I. <i>Hymenolepis diminuta</i> : the mechanism of egg hatching	237
COADWELL, W. J. and WARD, P. F. V. The use of faecal egg counts for estimating worm burdens in sheep infected with <i>Haemonchus contortus</i>	251
STOREY, G. W. and PHILLIPS, R. A. A technique using continuous action centrifugation for the quantitative recovery of helminth eggs from vegetation and water	257
JAP, P. H. K., MEIS, J. F. G. M., VERHAVE, J. P. and MEUWISSEN, J. H. E. Th. Degenerating exo-erythrocytic forms of <i>Plasmodium berghei</i> in rat liver: an ultrastructural and cytochemical study	263
HANSEN, B. D., PEREZ-ARBELO, J., WALKONY, J. F. and HENDRICKS, L. D. The specificity of purine base and nucleoside uptake in promastigotes of <i>Leishmania braziliensis panamensis</i>	271
TOWNSON, S. and BIANCO, A. E. Experimental infection of mice with the microfilariae of <i>Onchocerca lienalis</i>	283
EVANS, N. A. Effect of copper and zinc upon the survival and infectivity of <i>Echinoparyphium recurvatum</i> cercariae	295
MILLER, KATHLEEN L. and SMITHERS, S. R. Localized skin changes at the site of immunization with highly irradiated cercariae of <i>Schistosoma mansoni</i> are associated with enhanced resistance to a challenge infection	305
RUPPEL, A., ROTHER, U. and DIESFELD, H. J. <i>Schistosoma mansoni</i> : development of primary infections in mice genetically deficient or intact in the fifth component or complement	315
VONGPAYABAL, P., SOBHON, P., UPATHAM, E. S., WANICHANON, C., MITRANOND, V., TANPHAICHITR, N. and TUMBEL, V. E. C. Scanning electron microscopic study of the tegumental surface of adult <i>Schistosoma mekongi</i>	325
BASCH, P. F. and BASCH, NATALICIA. <i>Schistosoma mansoni</i> : scanning electron microscopy of schistosomula, adults and eggs grown <i>in vitro</i>	333
ANDERSON, R. M., MERCER, J. G., WILSON, R. A. and CARTER, N. P. Transmission of <i>Schistosoma mansoni</i> from man to snail: experimental studies of miracidial survival and infectivity in relation to larval age, water temperature, host size and host age	339
CARTER, N. P., ANDERSON, R. M. and WILSON, R. A. Transmission of <i>Schistosoma mansoni</i> from man to snail: laboratory studies on the influence of snail and miracidial densities on transmission success	361
ANDERSON, R. M. and GORDON, D. M. Processes influencing the distribution of parasite numbers within host populations with special emphasis on parasite-induced host mortalities	373
KWONG, YONG WENG and DOBSON, C. Population dynamics of <i>Angiostrongylus cantonensis</i> during primary infections in rats	399
<i>Trends and Perspectives</i>	
ANDERSON, R. M. and MAY, R. M. Coevolution of hosts and parasites	411
<i>Proceedings of the British Society for Parasitology, 5-7 April 1982</i>	i

© Cambridge University Press 1982

The Pitt Building, Trumpington Street, Cambridge CB2 1RP
32 East 57th Street, New York, N.Y. 10022

Printed in Great Britain at the University Press, Cambridge