

Publications issued by

COMMONWEALTH INSTITUTE OF ENTOMOLOGY

41 Queen's Gate, London, S.W. 7

BULLETIN OF ENTOMOLOGICAL RESEARCH

Published quarterly and containing original articles on Economic Entomology. *Issued Post Free.*

Annual Subscription (payable in advance) 40s. od.

Prices of back parts and volumes on application.

REVIEW OF APPLIED ENTOMOLOGY

Consisting of abstracts or reviews of all current literature on Economic Entomology throughout the world. Published monthly in two series:

Series "A" dealing with insect and other Arthropod pests of cultivated plants, forest trees and stored products of animal and vegetable origin.

Series "B" dealing with insects, ticks, etc. conveying disease or otherwise injurious to man and animals. *Issued Post Free.*

Series "A" Series "B"

Annual Subscription (payable in advance) 40s. od. 20s. od.

Prices of back parts and volumes on application.

ZOOLOGICAL RECORD, part INSECTA

Published annually about October each year and containing as complete a record as possible of the literature of the previous year, chiefly from the systematic standpoint.

Annual Subscription (including postage) vol. 84 et sqq. 20s. 6d.

Prices of back volumes on application.

TICKS

A MONOGRAPH OF THE IXODOIDAE

By

GEORGE H. F. NUTTALL, CECIL WARBURTON

W. F. COOPER and L. E. ROBINSON

Part I. Argasidae. 8s. 6d. net

Part II. Ixodidae. 16s. net

Part III. The Genus *Haemaphysalis*. 16s. net

Part IV. The Genus *Amblyomma*. 22s. 6d. net

Fully illustrated by numerous text-figures and plates.

Each part is complete in itself. Copies are again available.

CAMBRIDGE UNIVERSITY PRESS

CONTENTS

(All rights reserved)

	PAGE
FASTIER, L. B. The effect of physical agents on hydatid scolex viability. (With 6 Figures in the Text)	157
WEISER, JAROSLAV. Studies on some parasites of fishes. (With 2 Figures in the Text)	164
MILNE, A. The ecology of the sheep tick, <i>Ixodes ricinus</i> L. Host relationships of the tick. Part 1. Review of previous work in Britain	167
MILNE, A. The ecology of the sheep tick, <i>Ixodes ricinus</i> L. Host relationships of the tick. Part 2. Observations on hill and moorland grazings in northern England	173
WILSON, S. G. <i>Trypanosoma uniforme</i> - <i>Trypanosoma vivax</i> infections in bovines and <i>Trypanosoma uniforme</i> infections in goats and sheep at Entebbe, Uganda. (With 22 Figures in the Text)	198
GNaNAMUTHU, C. P. A new copepod parasite, <i>Lernanthropus dussumieria</i> n.sp., from the gills of a Madras fish. (With 6 Figures in the Text)	209
VAN CLEAVE, HARLEY J. <i>Pseudoporrorchis teliger</i> , a new species of acanthocephala from Java. (With 5 Figures in the Text)	214
DOUGHERTY, ELLSWORTH C. A list of the trichostrongylid lungworms (Phylum Nematoda) and a key to the six genera. (With 2 Figures in the Text)	218
DOUGHERTY, ELLSWORTH C. The phylogeny of the nematode family Metastrongylidae Leiper, [1909]: a correlation of host and symbiote evolution. (With 27 Figures in the Text)	222
ARTHUR, D. R. The scutum of the tick, <i>Ixodes ricinus</i> L. (With 9 Figures in the Text)	235
MATTHEWS, R. E. F. Reactions of <i>Cyphomandra betacea</i> to strains of potato virus X	241
ROGERS, W. P. and LAZARUS, MARIAN. The uptake of radioactive phosphorus from host tissues and fluids by nematode parasites. (With 5 Figures in the Text)	245
GERICHTER, CH. B. Studies on the nematodes parasitic in the lungs of Felidae in Palestine. (With 27 Figures in the Text)	251
KIRK, R. The differentiation and nomenclature of <i>Leishmania</i>	263
CROFTON, H. D. The ecology of immature phases of trichostrongyle nematodes. III. Larval populations on hill pastures. (With 3 Figures in the Text)	274
TRIM, A. R. The kinetics of the penetration of some representative anthelmintics and related compounds into <i>Ascaris lumbricoides</i> var. <i>suvis</i> . (With 9 Figures in the Text)	281
GANAPATI, P. N. and TATE, P. On the gregarine <i>Lankesteria culicis</i> (Ross), 1898, from the mosquito <i>Aedes (Finlaya) geniculatus</i> (Olivier). (With 5 Figures in the Text)	291
LEWIS, D. J. The distribution of Cimicidae (Hemiptera) in the Anglo-Egyptian Sudan. (With 4 Figures in the Text)	295
CHANCE, M. R. A. and DIRNHUBER, P. The water-soluble vitamins of parasitic worms	300
ROGERS, W. P. and LAZARUS, MARIAN. Glycolysis and related phosphorus metabolism in parasitic nematodes. (With 6 Figures in the Text)	302
JOBLING, B. Host-parasite relationship between the American Streblidae and the bats, with a new key to the American genera and a record of the Streblidae from Trinidad, British West Indies (Diptera). (With 3 Figures in the Text)	315
MARKHAM, ROY and SMITH, KENNETH M. Studies on the virus of turnip yellow mosaic. (With Plates IV-VII and 4 Figures in the Text)	330
INDEX OF AUTHORS	343
INDEX OF SUBJECTS	345

PARASITOLOGY is published three or four times a year. The numbers afterwards are issued in volumes each containing four numbers.

Papers for publication should be sent to Professor D. KEILIN, Molteno Institute, Downing Street, Cambridge. Other communications should be addressed to the University Press, Cambridge.

Papers forwarded to the Editors for publication are understood to be offered to *PARASITOLOGY* alone, unless the contrary is stated.

Contributors receive fifty copies of their papers free. Additional copies, not exceeding one hundred (except in special cases), may be had at cost price: these should be ordered when the final proof is returned.

The subscription price is £2. 15s. per volume (post-free), payable in advance; single numbers 18s. 6d. net (double number 37s. net). Subscriptions may be sent to any Bookseller, or to The Cambridge University Press, Bentley House, 200 Euston Road, N.W. 1.

The Cambridge University Press has appointed the University of Chicago Press agent for the sale of *Parasitology* in the United States of America.

Printed in Great Britain at the University Press, Cambridge
(Brooke Crutchley, University Printer)