## **Parasitology**

is one of over 50 learned journals published by Cambridge University Press.

A descriptive catalogue of Cambridge journals including details of back volumes is available from the London and New York offices of the Press.

Cambridge journals may be ordered from a bookseller or direct from the publishers.

#### **Cambridge University Press**

Bentley House, 200 Euston Road London NW1 2 DB

American Branch: 32 East 57th Street New York, N.Y.10022

## The Athlone Press

# Progress in Parasitology

P. C. C. Garnham

In this discussion of topics central to the understanding of zoonosis, Professor Garnham first stresses and then applies to a consideration of many diseases the concepts of natural focus, dynamic or evolutionary pattern, and contrasting severity of infection. The study includes an examination of the parasitologist's own problems and risks, and gives an account of important centres of research and of the lives of some great parasitologists. HEATH CLARK LECTURES 1968

0 485 26321 1

£,3.00

### Cambridge Biology Journals

Annals of Applied Biology Chairman of the Editorial Board: W. G. KEYWORTH. Published nine times a year.

Annual subscription £15 (\$49.50)

Biological Reviews of the Cambridge Philosophical Society Editor: E. N. WILLMER, F.R.S. Published quarterly.

Annual subscription £8 (\$26.50)

**Journal of Cell Science** Editors: A. V. GRIMSTONE AND H. HARRIS, F.R.S. Published bimonthly.

Annual subscription £22 (\$70)

Journal of Experimental Biology Editors: SIR VINCENT WIGGLESWORTH, F.R.S. AND J. A. RAMSEY, F.R.S. Published bimonthly.

Annual subscription £12 (\$39)

Journal of Embryology and Experimental Morphology Editors: D. A. EDE, D. A. T. NEW, J. PAUL AND L. WOLPERT. Published bimonthly.

Annual subscription £22 (\$70)

For further information, including the availability and price of back volumes, and a list of Cambridge books in the biological sciences, write to:

#### CAMBRIDGE UNIVERSITY PRESS

(Journal Sales Promotion)
P.O. Box 92, London NW1 2DB
32 East 57th Street, New York, N.Y.10022

#### NOTES FOR CONTRIBUTORS

CONTRIBUTIONS will be welcomed from scientists of all nationalities, but must be witten in English. Papers should be sent to Dr H. D. Crofton, Department of Zoology, University of Bristol, Woodland Road, Bristol BS8 1UG.

GENERAL. Submission of a paper will be taken to imply that it is unpublished and is not being considered for publication elsewhere. Papers published in Parasitology may not be reprinted or published in translation without permission from the Editorial Board. Papers should be as concise as clarity permits, and illustrations kept as few as possible. Attention to the following instructions will assist rapid publication:

TYPESCRIPTS. Papers should be typewritten with double spacing, on one side of quarto paper leaving a margin of about 4 cm. on the left-hand side of each sheet. Sheets should be numbered consecutively. Heavily corrected typescripts may have to be returned to the author for retyping. Papers should state the name of the author and the address to which proofs are to be sent. The address of the laboratory at which the work was carried out will be printed with the author's names at the head of the paper. A short title, not exceeding 44 letters, should be supplied for running headlines.

The general arrangement of the paper should be as follows: Introduction; Methods; Results; Discussion; Summary of results; References. Tables, explanations of text-figures or plates, and keys to the abbreviations used on figures should where necessary be on separate sheets (see below).

SYMBOLS, SIGNS AND ABBREVIATIONS used should be those listed in the booklet Symbols, Signs and Abbreviations recommended for British Scientific Publications (The Royal Society, 1969).

PLATES should only be included where they are absolutely essential. Authors may be required to bear part of the cost if an unduly large number is required. Photographs should be sharp glossy prints, trimmed and mounted on white card and grouped and numbered as they are required to appear in print (oversea contributors may prefer to submit unmounted prints with a sketch to indicate the proposed grouping). The area of a group cannot exceed 20 by 12.5 cm., after reduction (if any). Lettering is best indicated on an overlay or separate sketch.

TEXT FIGURES should not be more than about twice the size of the finished block, and the thickness of lines and size of points, stipples, etc. determined accordingly. The maximum size of any one group of figures, after reduction, is 20 by 12.5 cm. They must be drawn in Indian ink on white Bristol Board, heavy drawing paper or trac-ing paper; graph paper ruled in pale blue (but not other colours) is also acceptable. Explanatory lettering should be lightly inserted in blue pencil, with tally lines showing the position of the feature to which it refers, so that the printer may put in the finished lettering. Lettering should be limited to features essential to the understanding of the drawing or photograph, and abbreviations should be avoided wherever possible so that the details can be readily understood without reference to an explanatory key. Properly prepared scraperboard drawings may be suitable for reproduction as line drawings, but drawings with graduations of shading (e.g. washdrawings) are not. Please try to avoid creasing or folding illustrations. Legends to illustrations must be given on a separate sheet of paper, but scales of magnification should be given along-https://doi.org/10.1017/S0031182000071407 Published online by Cambridge University Press

side the illustrations. Each illustration must have the name of the author and figure number pencilled on the back. Plates and diagrams should be numbered separately and their approximate positions indicated in the margin of the typescript. It is very convenient if photographs of illustrations are sent with the papers in addition to the original figures; they are essential when the originals are very large, so that they may be sent through the post to referees.

TABLES should be kept to a minimum and the duplication of information in tables and graphs, avoided. They should be typed on separate sheets of paper and their approximate positions indicated in the margin of the typescript. Each table should be numbered and be designed to be printed in the normal orientation of the text with the data so grouped as to make the use of rules unnecessary, whenever possible.

NOMENCLATURE. Authors should follow the International Rules of Nomenclature in the names of organisms. When new names are introduced the recommendations of the International Code of Zoological Nomenclature, 1964, should be strictly adhered to, especially with regard to the designation of types and statements as to where such types are deposited.

REFERENCES should be given only when cited in the text and should be listed in alphabetical order at the end of the paper, in the following form:

Surname of author(s), initials; year of publication; title of paper; title of journal in full; volume number; first and last page numbers of the work cited. When books are listed, the title of the book should be underlined and it should be followed by the town of publication and the name of the publisher.

Where there is more than one reference to a particular author or group of authors with the same date, references should be distinguished by letters placed after the date, the letter a being used for the first reference cited and so on.

PROOFS sent to authors are already in page form and only essential corrections should be made on them. Excessive alterations, other than corrections of printers' errors, may be disallowed or charged to the author; they are in any case liable to delay publication. Correction should be made using the symbols in British Standard 1219: 1958, or its shortened version B.S. 1219C: 1958 (British Standards Institution, 2 Park Street, London, W.1). After correction, the printers' marked proof should be returned to the Editor.

OFFPRINTS. Twenty-five offprints of each paper are provided free of charge. Additional offprints may be ordered on the form sent out with proofs, provided this is returned within seven days of receipt.

MORE DETAILED INFORMATION on the preparation of manuscripts for publication is to be found in the following:

NUTTALL, G. H. F. (1940). Notes on the Preparation of papers for Publication in the Journal of Hygiene and in Parasitology, Parasitology 32, 1-62 and J. Hyg., Camb. 40, 1-62. (Now out of print and also out of date in some respects.)

The Journal of Physiology (1966). Suggestions to Authors 182, 1-33, Cambridge University Press. THE ROYAL SOCIETY published a second edition of General Notes on the Preparation of Scientific Papers in 1965. (The Royal Society, 6 Carlton

#### **PARASITOLOGY**

Volume 62, Part 2, April 1971

#### CONTENTS

	PAGE
WARREN, E. G. A new species of <i>Toxascaris</i> from hyenas. (With 1 Plate and 9 Figures in the Text).	171
CROFTON, H. D. A quantitative approach to parasitism	179
Dasgupta, B., Pal, N., Chatterjee, A. and Chatterjee, D. A new malaria parasite in <i>Hylopetes alboniger</i> Hodgson. (With 2 Plates)	195
Kusel, J. R. The effects of various treatments on the surfaces of the cercariae and schistosomula of Schistosoma mansoni	199
GUTTERIDGE, W. E., TRIGG, P. I. and WILLIAMSON, D. H. Properties of DNA from some malarial parasites. (With 3 Figures in the Text)	209
Phillips, R. S. Immunity of rats and mice following injection with <sup>60</sup> Co irradiated <i>Babesia rodhaini</i> infected red cells. (With 4 Figures in the Text)	221
BARON, P. J. On the histology, histochemistry and ultrastructure of the cysticercoid of Raillietina cesticillus (Molin, 1858) Fuhrmann, 1920 (Cestoda, Cyclophyllidea). (With 2 Plates and 2 Figures in the Text)	233
COLAM, J. BARRY. Studies on gut ultrastructure and digestive physiology in <i>Rhabdias bufonis</i> and <i>R. sphaerocephala</i> (Nematoda: Rhabditida) (With 4 Plates and 1 Figure in the Text)	247
COLAM, J. BARRY. Studies on gut ultrastructure and digestive physiology in Cosmocerca ornata (Nematoda: Ascaridida), (With 6 Plates and 1 Figure in the Text)	259
COLAM, J. BARRY. Studies on gut ultrastructure and digestive physiology in <i>Cyathostoma lari</i> (Nematoda: Strongylida). (With 4 Plates and 1 Figure in the Text)	273
Moss, G. D. The nature of the immune response of the mouse to the bile duct cestode, <i>Hymenolepis microstoma</i> . (With 5 Figures in the Text)	285
Long, P. L. and Milne, B. S. The effect of an interferon inducer on <i>Eimeria maxima</i> in the chicken	295
Desch, C., Lebel, R. R., Nutting, W. B. and Lukoschus, F. Parasitic mites of Surinam.  I. Demodex carolliae sp.nov. (Acari: Demodicidae) from the fruit bat Carollia perspicillata. (With 2 Plates and 4 Figures in the Text)	303
BUTCHER, G. A. and COHEN, S. Short-term culture of <i>Plasmodium knowlesi</i> . (With 2 Figures in the Text)	309
HAFEEZULLAH, M. Opecoelid trematodes of marine fishes of India. (With 9 Figures in the Text)	321
CHATTERJEE, D. K. and RAY, H. N. Some observations on the morphology and developmental stages of <i>Trypanosoma avium bakeri</i> ssp.nov. from the red-whiskered bulbul ( <i>Otocompsa jocosa</i> Linn.). (With 2 Plates)	331
EDWARDS, A. J., BURT, J. S. and OGILVIE, BRIDGET M. The effect of immunity upon some enzymes of the parasitic nematode, <i>Nippostrongylus brasielinsis</i> . (With 3 Plates and 1 Figure in the Text).	339
PURNELL, R. E., BOARER, C. D. H. and PEIRCE, M. A. Theileria parva: Comparative infection rates of adult and nymphal Rhipicephalus appendiculatus. (With 1 Figure in the Text)	349