

PARASITOLOGY

(Founded by G. H. F. Nuttall, F.R.S.)

EDITED BY

D. KEILIN, F.R.S.

IN CONJUNCTION WITH

H. A. BAYLIS, D.Sc.

A. BISHOP, Sc.D.

F. J. BROWN, M.Sc.

P. A. BUXTON, F.R.S.

C. DOBELL, F.R.S.

E. HINDLE, F.R.S.

C. A. HOARE, D.Sc.

K. M. SMITH, F.R.S.

N. G. SPROSTON, B.Sc.

P. TATE, Ph.D.



CAMBRIDGE UNIVERSITY PRESS

LONDON: BENTLEY HOUSE

CHICAGO: The University of Chicago Press
(Agents for the United States)

BOMBAY, CALCUTTA, MADRAS: Macmillan

All rights reserved

Thirty-seven Shillings net

Issued 10 September 1946

PRINTED IN GREAT BRITAIN

PARASITOLOGY

(Founded by G. H. F. Nuttall; F.R.S.)

EDITED BY

D. KEILIN, F.R.S.

IN CONJUNCTION WITH

H. A. BAYLIS, D.Sc.

A. BISHOP, Sc.D.

F. J. BROWN, M.Sc.

P. A. BUXTON, F.R.S.

C. DOBELL, F.R.S.

E. HINDLE, F.R.S.

C. A. HOARE, D.Sc.

K. M. SMITH, F.R.S.

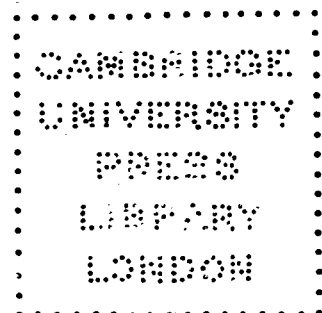
N. G. SPROSTON, B.Sc.

P. TATE, Ph.D.

VOLUME 37, 1946

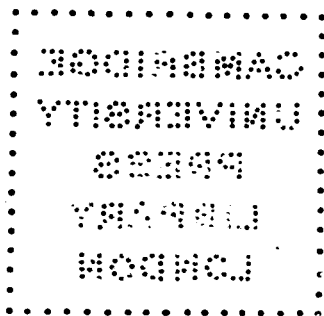
CAMBRIDGE
AT THE UNIVERSITY PRESS

1946



*Printed in Great Britain at the University Press, Cambridge
(Brooke Crutchley, University Printer)
and published by the Cambridge University Press
Cambridge, and Bentley House, London*

*Agents for U.S.A.: The University of Chicago Press
Canada and India: Macmillan*



C O N T E N T S

Nos. 1, 2 (JANUARY, 1946)

	PAGE
LEES, A. D. The water balance in <i>Ixodes ricinus</i> L. and certain other species of ticks. (With 8 Figures in the Text)	1
SMITH, KENNETH M. <i>Tobacco rosette</i> : a complex virus disease. (With Plates I and II)	21
SMITH, KENNETH M. and LEA, D. E. The transmission of plant viruses by aphides. (With 7 Figures in the Text)	25
REES, GWENDOLEN. A record of the nematode parasites of fishes from the Porcupine Bank, Irish Atlantic Slope and Irish Sea	38
RADFORD, CHARLES D. Notes on <i>Trombicula deliensis</i> Walch, 1923 (Acarina; Trombididae), with description of the adult. (With 9 Figures in the Text)	42
RADFORD, CHARLES D. Larval and nymphal mites (Acarina; Trombiculidae) from Ceylon and the Maldive Islands. (With 29 Figures in the Text)	46
LEWIS, E. ANEURIN. Nairobi sheep disease: the survival of the virus in the tick <i>Rhipicephalus appendiculatus</i> . (With 6 Figures in the Text)	55
LEWIS, E. ANEURIN, PIERCY, S. E. and WILEY, A. J. <i>Rhipicephalus neavei</i> Warburton, 1912 as a vector of East Coast Fever. (With 4 Figures in the Text)	60
PHILLIPS, NADA E. and MACKINNON, DORIS L. Observations on a monocystid gregarine, <i>Apolocystis elongata</i> n.sp., in the seminal vesicles of <i>Eisenia foetida</i> (Sav.). (With 45 Figures in the Text)	65
MILNE, A. The ecology of the sheep tick, <i>Ixodes ricinus</i> L. Distribution of the tick on hill pasture. (With 2 Figures in the Text)	75
ROBINSON, G. G. The biology of <i>Ornithodoros delanoei acinus</i> Whittick, 1938	82
BISHOP, ANN and GILCHRIST, BARBARA M. Experiments upon the feeding of <i>Aedes aegypti</i> through animal membranes with a view to applying this method to the chemotherapy of malaria. (With 2 Figures in the Text)	85
CHANG, SHIH LU. Studies on <i>Entamoeba histolytica</i> . IV. The relation of oxidation-reduction potentials to the growth, encystation and excystation of <i>Entamoeba histolytica</i> in culture. (With 1 Figure and 9 Graphs in the Text)	101

Nos. 3, 4 (AUGUST, 1946)

FONSECA, F., CAMBOURNAC, F. J. C., PINTO, M. R., PEREIRA, J. M. and CUNHA, A. Studies on the exo-erythrocytic cycle of malaria. (With Plate III)	114
WILSON, S. G. Seasonal occurrence of Ixodidae on cattle in Northern Province, Nyasaland. (With 2 Figures in the Text)	118

	PAGE
SMITH, KENNETH M. Tomato black-ring: a new virus disease. (With Plates IV and V)	126
SMITH, KENNETH M. The transmission of a plant virus complex by aphides	131
ROONWAL, M. L. and NATARAJ, S. On two species of sucking lice (Anoplura, Haematopinidae) from the common North Indian five-striped squirrel (<i>Funambulus pennanti pennanti</i> Wr.). (With 1 Figure in the Text)	135
WATSON, J. M. Studies on the morphology and bionomics of a little-known holotrichous ciliate— <i>Balantiophorus minutus</i> Schew. Part III. Coprophilic habits and the effect of urine	138
ARTHUR, D. R. and EDWARDS, E. E. A note on an unusual male tick from Glamorgan. (With 6 Figures in the Text)	152
ARTHUR, D. R. The feeding mechanism of <i>Ixodes ricinus</i> L. (With 15 Figures in the Text)	154
REES, GWENDOLEN. The anatomy of <i>Phyllobothrium dohrnii</i> (Oerley) from <i>Hexanchus griseus</i> (Gmelin). (With 20 Figures in the Text)	163
LEES, A. D. Chloride regulation and the function of the coxal glands in ticks. (With 10 Figures in the Text)	172
BATHAM, E. J. Testing arecoline hydrobromide as an anthelmintic for hydatid worms in dogs. (With 4 Figures in the Text)	185
SPRENT, J. F. A. Studies on the life-history of <i>Bunostomum phlebotomum</i> (Railliet, 1900), a hookworm parasite of cattle. (With 26 Figures in the Text)	192
SPRENT, J. F. A. Some observations on the bionomics of <i>Bunostomum phlebotomum</i> , a hookworm of cattle. (With 2 Figures in the Text)	202
INDEX OF AUTHORS	211
INDEX OF SUBJECTS	212