PARASITOLOGY

(Founded by G. H. F. Nuttall)

EDITED BY

D. KEILIN and P. TATE

IN CONJUNCTION WITH

A. BISHOP F. J. BROWN E. HINDLE C. A. HOARE G. LAPAGE K. M. SMITH



CAMBRIDGE UNIVERSITY PRESS

BENTLEY HOUSE, 200 EUSTON ROAD, LONDON, N.W. 1

AMERICAN BRANCH: 32 EAST 57TH STREET, NEW YORK 22, N.Y.

Fifty-five Shillings net (U.S.A. \$9.50)

Issued 11 July 1957

CAMBRIDGE UNIVERSITY PRESS LIBRARY LONDON A list of the

JOURNALS

Published by the Cambridge University Press, may be had from

THE MANAGER

CAMBRIDGE UNIVERSITY PRESS
BENTLEY HOUSE
200 EUSTON ROAD
LONDON, N.W. I

MICHROME STAINS

and Reagents
for Microscopy & Biology

Brilliant Cresyl Blue Lipase
Cresyl Fast Violet CNS Luxol Fast Blue
Cytase Methyl Green
Giemsa Stain Pyronin
Janus Green, B Sudan Black
Lacmoid Trypan Red

Leishman Stain

MF. 4 Stain (for keratin, etc.)

Urease, etc.

AQUAMOUNT: synthetic, colourless, neutral, aqueous mountant, moderately quick-drying OPTOIL: synthetic, colourless, non-sticky immersion oil

CLEARMOUNT & CRISTALITE: colourless, synthetic, neutral mountants, xyloi miscible

EDWARD GURR, LTD.

42 Upper Richmond Road West, East Sheen, London, S.W.14

> Telephone: Prospect 7606 & 8051 Cables: Micromlabs London

SERVICE, UNIFORM HIGH QUALITY, RELIABILITY,
IMMEDIATE DELIVERY

Now ready: 2nd edit. "A Practical Manual of Medical and Biological Staining Techniques", 460 pages, 42/- plus 1/6d. postage

Publications issued by

COMMONWEALTH INSTITUTE OF ENTOMOLOGY 56 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) 100s. 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) 60s, od. 30s. 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 by the dictature of the previous year, chiefly from the systematic standpoint.

Annual Subscription (including postage) 51s, od.

Prices of back volumes on application.

1 - 12 - 12 - 12 - 122

YARALI HOGHOL

PARASITOLOGY

Beginning with Volume 47 (1957), the number of pages per volume is to be increased from about 480 to about 580. The subscription price for a volume comprised of four numbers, issued as double numbers, is raised to £5 (in U.S.A. \$17.00) post free, and the published price of double numbers will be £2. 15s. (in U.S.A. \$9.50) plus postage.

The Journal of General Microbiology

Editors: B. C. J. G. KNIGHT and A. F. B. STANDFAST

Contents Volume 16, No. 3, June 1957

NIEL, C. B. VAN. Obituary notice: Albert Jan Kluyver 1888-1956.

IVANOVICS, G. and ALFÖLDI, L. Bacteriocinogenesis in Bacillus megaterium.

TURNER, E. M. The effect of some amino acids on the growth of two varieties of *Ophiobolus graminis*.

Moses, V. The metabolic significance of the citric acid cycle in the growth of the fungus Zygorrhynchus moelleri.

BARTLETT, G. W. and Moses, V. The pathway of glucose metabolism in Zygorrhynchus moelleri.

Mučibabić, S. The growth of mixed populations of *Chilomonas paramecium* and *Tetrahymena pyriformis*.

BISSET, K. A., BAIRD-PARKER, A. C., HALE, C. M. F., JEYNES, M. H. and LAWRENCE, J. C. The production of Gram-positive variants by Azotobacter chroococcum.

GROSSOWICZ, N., HAYAT, P. and HALPERN, Y. S. Pyocyanine biosynthesis by *Pseudomonas aeruginosa*.

MAXTED, W. R. The active agent in nascent phage lysis of streptococci.

LITTLEWOOD, D. and POSTGATE, J. R. On the osmotic behaviour of *Desulphovibrio desul-phuricans*.

CRAWFORD, K. and ABRAHAM, E. P. The synergistic action of cephalosporin C and benzylpenicillin against a penicillinase-producing strain of *Staphylococcus aureus*.

BRIGGS, S., CRAWFORD, K., ABRAHAM, E. P. and GLADSTONE, G. P. Some properties of Gramnegative bacilli obtained from a strain of *Staphylococcus aureus* in the presence of benzylpenicillin.

VLOEDMAN, D. A. JUN., BERECH, J. JUN., JEFFERIES, W. B. and WAGTENDONK, W. J. VAN. Carbohydrate metabolism of *Paramecium aurelia*, variety 4, stock 47·8 (sensitive).

CHIN, B. and KNIGHT, S. G. Growth of *Trichophyton mentagrophytes* and *Trichophyton rubrum* in increased carbon dioxide tensions.

KNOX, R. and WOODROFFE, R. Semi-solid agar media for rapid drug sensitivity tests on cultures of *Mycobacterium tuberculosis*.

ROPER, J. A. and Käfer, E. Acriflavine-resistant mutants of Aspergillus nidulans.

TYRRELL, D. A. J. and VALENTINE, R. C. The assay of influenza virus particles by haemagglutination and electron microscopy.

SHARPE, M. E. and WHEATER, D. M. Lactobacillus helveticus.

VALENTINE, R. C. and ISAACS, A. The structure of viruses of the Newcastle disease—mumps—influenza (Myxovirus) group.

HENDERSON, M. E. K. Metabolism of methoxylated aromatic compounds by soil fungi.

BAWDEN, F. C. and PIRIE, N. W. A virus-inactivating system from tobacco leaves.

Jackson, F. L. Pyruvate accumulation and development of thiamine deficiency in cultures of *Proteus vulgaris*.

BHASKARAN, K. and GORRILL, R. H. A study of antigenic variation in Vibrio cholerae.

CARTWRIGHT, S. F., PAY, T. W. F. and HENDERSON, W. M. Multiplication of the virus of foot-and-mouth disease in culture.

Barksdale, W. L., Li, K., Cummins, C. S. and Harris, H. The mutation of Corynebacterium pyogenes to Corynebacterium haemolyticum.

LINDENMANN, J. The staining of influenza virus filaments.

Buxton, E. W., Last, F. T. and Nour, M. A. Some effects of ultraviolet radiation on the pathogenicity of *Botrytis fabae*, *Uromyces fabae* and *Erysiphe graminis*.

The subscription rate is 90s. net per volume of 3 parts. Single parts 35s. each, plus postage. Two volumes will be issued each year. Orders should be sent to

CAMBRIDGE UNIVERSITY PRESS
BENTLEY HOUSE, 200 EUSTON ROAD, LONDON, N.W.1