THE JOURNAL OF GENERAL MICROBIOLOGY
EDITED FOR
THE SOCIETY FOR GENERAL MICROBIOLOGY
AND THE FEDERATION OF EUROPEAN
MICROBIOLOGICAL SOCIETIES

Editors
E. A. DAWES
Hull

R. MARCHANT P. M. MEADOW C. RATLEDGE D. A. SMITH
Coleraine London Hull Birmingham

Editorial Board
C. ANAGNOSTOPOULOS C. A. FEWSON Glasgow P. PIGGOT London
Gif-sur-Yvette

J. A. BAILEY Wye R. B. GILLILAND Dublin S. POSTON London

S. BASCOMB London M. GOODFELLOW R. C. RIGHELATO Reading

J. E. BERINGER Norwich T. R. G. GRAY Essex K. RING Frankfurt


I. J. BOUSFIELD Aberdeen I. J. HIGGINS Kent A. S. DAWSON Dagenham

C. M. BROWN Dundee W. H. HOLMS Glasgow D. G. SMITH London


C. E. CATEN Birmingham R. F. O. KEMP Edinburgh H. VELDKAMP Groningen

C. H. CLARKE East Anglia A. KOTYK Prague J. B. WARD London

J. A. COLE Birmingham R. W. LACEY King's Lynn J. G. H. WESSELS Groningen

J. G. COOTE Glasgow P. J. LARGE Hull B. M. WILKINS Leicester

D. J. COVE Leeds Th. LEISINGER Zürich S. T. WILLIAMS Liverpool

P. DRAPER London P. H. MÄKELÄ Helsinki G. M. WILLIAMSON Newcasle

K. G. H. DYKE Oxford B. E. MOSELEY Edinburgh

R. R. EADY Sussex B. MULLER-HILL Cologne D. A. WOOD Littlehampton

A. A. EDDY Manchester J. R. NORRIS Bristol K. S. ZINNEMANN Leeds

K. ESSER Bochum A. PASZEWSKI Warsaw

Editorial Office
HARVEST HOUSE, 62 LONDON ROAD, READING RG1 5AS, BERKSHIRE

© Society for General Microbiology 1978

For permission to reproduce material from The Journal of General Microbiology, please apply to the London or New York office of the Cambridge University Press.

ISI Tear Service, 325 Chestnut Street, Philadelphia, Pennsylvania 19106, USA is authorized to supply single copies of separate articles for private use only.

PURCHASE OF JOURNALS BY NON-MEMBERS

THE JOURNAL OF GENERAL MICROBIOLOGY
Published monthly.
Two parts form a volume. Six volumes (104-109) are published in 1978. The subscription price (which includes postage) of a volume is £19.00 net (US $44.00 in the USA and Canada). Total subscription for six volumes is £114.00 net (US $264.00 in the USA and Canada).

Single parts are £11.00 net (US $26.00 in the USA and Canada), plus postage.

THE JOURNAL OF GENERAL VIROLOGY
Published monthly.
Three parts form a volume. Four volumes (38-41) are published in 1978. The subscription price (which includes postage) of a volume is £20.00 net (US $47.50 in the USA and Canada). Total subscription for four volumes is £80.00 net (US $190.00 in the USA and Canada).

Single parts are £8.00 net (US $19.00 in the USA and Canada), plus postage.

Orders should be sent to a bookseller or to the publishers Cambridge University Press, P.O. Box 92, London, NW1 2DB, or in the U.S.A. and Canada, to Cambridge University Press, 32 East 57th Street, New York, N.Y. 10022.

Copies of the journal for subscribers in the U.S.A. and Canada are sent by air to New York to arrive with minimum delay.

Second class postage paid at New York, N.Y.

Claims for missing issues should be made immediately after receipt of the subsequent issue.

Enquiries about back volumes and advertising space should be sent to the Cambridge University Press.