

# THE QUARTERLY JOURNAL OF MEDICINE

(NEW SERIES)

EDITED BY

J. S. CAMERON      P. HUGH-JONES      E. M. McGIRR  
W. B. MATTHEWS      A. E. READ  
A. G. W. WHITFIELD

## CONTENTS

NEW SERIES Vol. 44 No. 174 April 1975  
(Vol. 68 of the continuous series)

- The Haemolytic Uraemic Syndrome – A Family Study. *M. J. Farr, S. Roberts, A. R. Morley, P. J. Dewar, D. F. Roberts, P. R. Uldall*
- The Diagnosis of the Carrier State for the Lesch-Nyhan Syndrome. *R. O. McKeran, T. M. Andrews, A. Howell, Dorothy A. Gibbs, Susan Chinn, R. W. E. Watts*
- Membranous Nephropathy. *P. G. Row, J. S. Cameron, D. R. Turner, D. J. Evans, R. H. R. White, C. S. Ogg, C. Chantler, C. B. Brown*
- W.H.O. Sponsored Collaborative Studies on Nutritional Anaemia in India. *S. K. Sood, K. Ramachandran, M. Mathur, K. Gupta, V. Rama-lingaswamy, C. Swarnabai, J. Ponniah, V. I. Mathan, S. J. Baker*
- The Use of Corticosteroids in the Treatment of Acute Asthma. *J. V. Collins, T. J. H. Clark, D. Brown, J. Townsend*
- Acute Lead Poisoning. *A. D. Beattie, J. D. Briggs, J. S. F. Canavan, D. Doyle, P. J. Mullin, A. A. Watson*
- Cryoglobulins III. *Rawle M. McIntosh, William R. Griswold, William B. Chernack, Gail Williams, Jose Strauss, Donald B. Kaufman, Michael N. Koss, J. Renee McIntosh, Ronald Cohen, Richard Weil III*
- Non-healing Granuloma and the Nervous System. *J. M. Anderson, D. G. Jamieson, J. M. Jefferson*
- Bronchial Asthma in the Nigerian Savanna Region. *D. A. Warrell, I. W. Fawcett, B. D. W. Harrison, A. J. Agamah, J. O. Ibu, Helen M. Pope, D. J. Maberly*
- Chenodeoxycholic Acid Therapy for Gallstones: Effectiveness, Toxicity and Influence on Bile Acid Metabolism. *Oliver James, J. Cullen, Ian A. D. Bouchier*
- Studies on Duodenal Ulcer. *Shiu-Kum Lam, W. Sircus*
- Endotoxaemia and the Pathogenesis of Acute Renal Failure. *E. Nigel Wardle*

Price £3.50 net. Subscription price £10.00 per annum

OXFORD UNIVERSITY PRESS

Press Road, Neasden, London NW10 0DD

# The Journal of General Microbiology

Volume 88, Part 1, May 1975

Growth Yield of a Denitrifying Bacterium, *Pseudomonas denitrificans*, under Aerobic and Denitrifying Conditions. By I. KOIKE and A. HATTORI

Energy Yield of Denitrification: An Estimate from Growth Yield in Continuous Cultures of *Pseudomonas denitrificans* under Nitrate- Nitrite- and Nitrous Oxide-limited Conditions. By I. KOIKE and A. HATTORI

Missense Suppression in *Coprinus lagopus* Associated with a Chromosome Duplication. By D. LEWIS and L. A. CASSELTON

The Preparation of Immunogenic Cell Walls from a Highly Protective Strain of *Clostridium chauvoei*. By H. M. CHANDLER and R. C. HAMILTON

Influence of Nitrate on Fermentation Pattern, Molar Growth Yields and Synthesis of Cytochrome b in *Propionibacterium pentosaceum*. By M. L. W. VAN GENT-RUIJTERS, W. DE VRIES and A. H. STOUTHAMER

Transfer of Antibiotic Resistance Plasmid RPI into *Pseudomonas glycinea* and *Pseudomonas phaseolicola* *in vitro* and *in planta*. By G. H. LACY and J. V. LEARY

Studies of Lactate Dehydrogenase of *Mycoplasma mycoides* var. *mycoides*. By B. A. ALLSOPP and K. P. MATTHEWS

Purification and Characterization of a Polyphosphate Kinase from *Arthrobacter atrocyaneus*. By S. L. LEVINSON, L. H. JACOBS, T. A. KRULWICH and H.-C. LI

A Novel Actinomycete from Sugar-cane Bagasse: *Saccharopolyspora hirsuta* gen. et sp. nov. By J. LACEY and M. GOODFELLOW

Unstable Generalized Transduction in Achromobacter. By D. R. WOODS and J. A. THOMSON

Purification and Characterization of two Bacteriocins from *Streptococcus faecium*. By J. KRÄMER and H. BRANDIS

Studies on the 'Osmophilic' Yeast *Saccharomyces rouxii* and an Obligate Osmophilic Mutant. By T. Y. KOH

Thymineless Death in *Bacillus subtilis*. By R. N. BUICK and W. J. HARRIS

Studies on Lipopolysaccharides Isolated from Strains of *Neisseria gonorrhoeae*. By A. STEAD, J. S. MAIN, M. E. WARD and P. J. WATT

The Genetics of Tetracycline Resistance in *Staphylococcus aureus*. By E. A. ASHESHOV

The Preparation of Large-scale Synchronous Cultures of the Trypanosomatid, *Criithidia fasciculata*, by Cell-size Selection: Changes in Respiration and Adenylate Charge through the Cell-cycle. By C. EDWARDS, M. STATHAM and D. LLOYD

Synchronous Cultures of Micro-organisms: Large-scale Preparation by Continuous-flow Size Selection. By D. LLOYD, L. JOHN, C. EDWARDS and A. H. CHAGLA

The Specificity of Enzymes Adding Amino Acids in the Synthesis of the Peptidoglycan Precursors of *Corynebacterium poinsettiae* and *Corynebacterium Insidiosum*. By A. W. WYKE and H. R. PERKINS

The Use of Analytical Isoelectric Focusing for Detection and Identification of  $\beta$ -Lactamases. By M. MATTHEW, A. M. HARRIS, M. J. MARSHALL and G. W. ROSS

## SHORT COMMUNICATIONS

The Protective Antigenicity of Protoplasts and Sphaeroplasts of a Highly Protective Strain of *Clostridium chauvoei*. By H. M. CHANDLER and R. C. HAMILTON

The Isolation of Obligate Osmophilic Mutants of the Yeast *Saccharomyces rouxii*. By T. Y. KOH

Possible Plasmid Nature of the Determinant for Production of the Antibiotic Nisin in Some Strains of *Streptococcus lactis*. By P. G. FUCHS, J. ZAJDEL and W. T. DOBRZANSKI

The Induction of the Enzymes of Naphthalene Metabolism in Pseudomonads by Salicylate and 2-Aminobenzoate. By E. A. BARNSLEY

The Effect of Chloral Hydrate upon Mitosis in *Aspergillus nidulans*. By B. MERCER and N. R. MORRIS

Differentiation of *Myobacterium*, *Nocardia*, and Related Taxa by Thin-layer Chromatographic Analysis of Whole-organism Methanolyses. By D. E. MINNIKIN, L. ALSHAMAONY and M. GOODFELLOW

£5.50 net (US \$16.50 in USA & Canada)

1975 subscription £48.00 net (US \$159.00 in USA & Canada)

**CAMBRIDGE UNIVERSITY PRESS**

Bentley House, 200 Euston Road, London NW1 2DB

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

## CONTENTS

	PAGE
P.H.L.S. WORKING GROUP. A programme for collaborative influenza surveillance	1
DE JONCKHEERE, J., VAN DIJCK, P. and VAN DE VOORDE, H. The effect of thermal pollution on the distribution of <i>Naegleria fowleri</i>	7
FOORD, N. and LIDWELL, O. M. Airborne infection in a fully air-conditioned hospital. I. Air transfer between rooms	15
FOORD, N. and LIDWELL, O. M. Airborne infection in a fully air-conditioned hospital. II. Transfer of airborne particles between rooms resulting from the movement of air from one room to another	31
LIDWELL, O. M. Airborne infection in a fully air-conditioned hospital. III. Transport of gaseous and airborne particulate material along ventilated passageways	45
PAUL, R. C., STANFORD, J. L. and CARSWELL, J. W. Multiple skin testing in leprosy	57
WINDSOR, R. S. and ELLIOTT, S. D. Streptococcal infection in young pigs. IV. An outbreak of streptococcal meningitis in weaned pigs	69
BLACK, L., MENARD, F. J. R. R., BEADLE, G. G. and PAY, T. W. F. Hypersensitivity in cattle after foot-and-mouth disease vaccination: response to hydroxypropylmethylcellulose	79
JOYNSON, D. H. M., HOWELLS, C. H. L., LIDDINGTON, R. and WILLIAMS, A. Contamination of fluids from a hospital pharmacy	87
PATTISON, J. R. and DANE, D. S. The routine serological investigation of cases and contacts of rubella	91
JONES, R. J., ROE, E. A. and DYSTER, R. E. Detection of endotoxins with the Limulus test in burned and unburned mice infected with different species of gram-negative bacteria	99
TAYLOR, MARGARET M. Bacteriological tests as indices for the development of off-flavours in cream	113
GROSS, R. J. and ROWE, B. <i>Citrobacter koseri</i> . I. An extended antigenic scheme for <i>Citrobacter koseri</i> (syn. <i>C. diversus</i> , <i>Levinea malomatica</i> )	121
ROWE, B., GROSS, R. J. and ALLEN, H. A. <i>Citrobacter koseri</i> . II. Serological and biochemical examination of <i>Citrobacter koseri</i> strains from clinical specimens	129
ELLIS-PEGLER, R. B., CRABTREE, C. and LAMBERT, H. P. The faecal flora of children in the United Kingdom	135
JONES, P. W., BEW, JANICE and GAMMACK, D. B. An investigation into the potential hazard to animal health of effluent sludge from dairy factories	143
CORBEL, M. J. The serological relationship between <i>Brucella</i> spp., <i>Yersinia enterocolitica</i> serotype IX and <i>Salmonella</i> serotypes of Kauffmann-White group N	151