

NOTES FOR CONTRIBUTORS

Papers for publication should be sent to Professor J. R. Pattison, Faculty of Clinical Sciences, School of Medicine, University College London, University Street, London WC1E 6JJ. The typescript and two copies should be sent with 3 copies of all tables and illustrations. Authors are requested to include a self addressed envelope for acknowledgement of receipt. Papers forwarded to the Editor for publication are understood to be offered to *Epidemiology and Infection* alone, unless the contrary is stated.

General

Careful preparation of manuscripts will promote rapid publication. Authors are advised to refer to a recent issue of the journal in addition to the notes below, paying particular attention to the form of references, tables and figures and the use of symbols and abbreviations. Papers should be in double-spaced typescript throughout (including reference lists, footnotes and legends) on A4 paper with a left hand margin of at least 4 cm.

Format

Papers must commence with a separate title page indicating the full title, initial(s), surname(s), address(es) of the authors and a short title not exceeding 45 characters. Papers should usually be divided into SUMMARY, INTRODUCTION, MATERIALS AND METHODS, RESULTS, DISCUSSION and REFERENCES. Some observations are best described in the form of a continuous narrative with the only subsection being a Summary at the beginning. Such papers will also be considered.

Acknowledgements are put at the end of the discussion after a space of one line.

Tables

Tables should be numbered separately with arabic numerals and each table typed on a separate sheet of paper. Whenever possible they should be so designed that they can be printed across the width of a page. Note that columns and lines are not separated by vertical or horizontal lines but are grouped by the use of braces of varying lengths.

Illustrations

Line drawings, diagrams and charts should be accurately drawn on plain white board or paper or faintly blue-lined graph paper and should not be more than twice publication size. Points should be indicated by the following symbols: \circ , Δ , \square , \bullet , \blacksquare . Lettering and numbering will not be directly reproduced but should be clearly shown either in pencil on the drawing or on overlaid transparent paper.

Photographs should be sent as unmounted glossy prints with good contrast. Their position in the text should be indicated by 'Figure...near here'.

Legends for figures should be typed on separate sheets of paper. Each illustration should bear on the back the author's name and illustration number.

References

In the text references by up to three authors are cited in the form Jones, Smith & Brown (1950) and those by four or more authors in the form Jones *et al.* (1950).

The reference list must be in double-spaced typescript, should be arranged alphabetically and should include authors' names, initials, year of publication in parentheses, title of the paper, name of the journal *in full*, the volume number and first and last page numbers. References to books and monographs should be in the form: authors' names, initials, year of publication in parentheses, title, edition editors (if appropriate), page number(s), place of publication and publisher. The authors should pay particular attention to the format and punctuation of the following examples:

ANDERHUB, B., PITI, T. L., ERDMAN, Y. J. & WILLCOX, W. R. (1977). The comparison of typing methods for *Serratia marcescens*. *Journal of Hygiene* 79, 89–102.

DUBEY, J. P. (1977). *Toxoplasma*, *Hammondia*, *Besnoitia*, *Sarcocystis*, and other tissue cyst-forming Coccidia of man and animals. In *Parasitic Protozoa*, vol. III (ed. J. P. Kreier), pp. 101–237. New York: Academic Press.

MARTIN-LUENGO, F., LOPEZ-AZORIN, F. & BERNAL, M. (1981). Activity of nine cephalosporins against *Nocardia asteroides*. *Proceedings of the 12th Interscience Congress of Chemotherapy* (ed. P. Periti and G. G. Grassi), pp. 367–368. Washington, D.C.: American Society for Microbiology.

MUNDAY, B. L. (1969). The epidemiology of toxoplasmosis with particular reference to the Tasmanian environment. M.V.Sc. thesis, University of Melbourne.

EPIDEMIOLOGY AND INFECTION

FORMERLY THE JOURNAL OF HYGIENE

EDITED BY

J. R. PATTISON

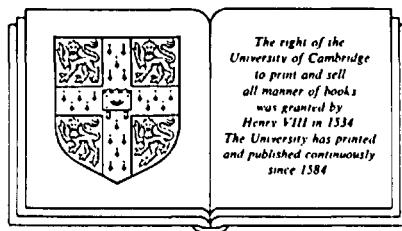
J. G. CRUICKSHANK C. R. MADELEY W. C. NOBLE

P. MORGAN-CAPNER
(ASSISTANT EDITOR)

IN CONJUNCTION WITH

| | |
|-----------------|------------------|
| M. J. ANDERSON | D. H. LLOYD |
| R. M. ANDERSON | R. R. MARPLES |
| R. D. BARRY | O. H. MEURMAN |
| P. S. BRACHMAN | P. P. MORTIMER |
| M. DEGRÉ | J. NAIDOO |
| S. M. FEINSTONE | J. S. OXFORD |
| R. G. FINCH | B. ROWE |
| R. J. GILBERT | M. B. SKIRROW |
| ANNA HAMBRAEUS | R. S. TEDDER |
| M. H. HINTON | H. E. TILLETT |
| J. C. DE JONG | R. VAN DER WAAIJ |
| J. B. KURTZ | A. T. WILLIS |
| M. J. LEWIS | |

VOLUME 99, 1987



CAMBRIDGE UNIVERSITY PRESS

Cambridge

New York New Rochelle Melbourne Sydney

Published by the Press Syndicate of the University of Cambridge
The Pitt Building, Trumpington Street, Cambridge CB2 1RP
32 East 57th Street, New York, NY 10022, USA
10 Stamford Road, Oakleigh, Melbourne 3166, Australia

© Cambridge University Press 1987

Printed in Great Britain by the University Press, Cambridge

Contents

No. 1 (AUGUST 1987)

| | PAGE |
|---|------|
| SPECIAL ARTICLE. OXFORD, J. S. What is the true nature of epidemic influenza virus and how do new epidemic viruses spread? | 1 |
| HOPE-SIMPSON, R. E. and GOLUBEV, D. B. A new concept of the epidemic process of influenza A virus | 5 |
| KOSKINEN, P., VUORINEN, T. and MEURMAN, O. Influenza A and B virus IgG and IgM serology by enzyme immunoassays | 55 |
| ANDERSON, R. M., CROMBIE, J. A. and GRENFELL, B. T. The epidemiology of mumps in the UK: a preliminary study of virus transmission, herd immunity and the potential impact of immunization | 65 |
| EGHAFONA, N. O., ODAMA, L. E., EMEJUAIWE, S. O., OBINECHE, E. N. and TAFIDA, D. S. Measles antibody levels in children of rural and urban areas of Nigeria following vaccination campaign | 85 |
| RODRIGUES, F. M., MANDKE, V. B., ROUMIANTZEFF, M., MOHAN RAO, C. V. R., MEHTA, J. M., PAVRI, K. M. and POONAWALLA, C. Persistence of rabies antibody 5 years after pre-exposure prophylaxis with human diploid cell antirabies vaccine and antibody response to a single booster dose | 91 |
| BEGG, N. T., CHAMBERLAIN, R. and ROEBUCK, M. Paralytic poliomyelitis in England and Wales, 1970-84 | 97 |
| LITTLE, T. W. A., STEVENS, A. E. and HATHAWAY, S. C. Serological studies on British isolates of the Sejroe serogroup of leptospira. II. An evaluation of the factor analysis method of identifying leptospires using strains belonging to the Sejroe serogroup | 107 |
| LITTLE, T. W. A., STEVENS, A. E. and HATHAWAY, S. C. Serological studies of British leptospiral isolates of the Sejroe serogroup. III. The distribution of leptospires of the Sejroe serogroup in the British Isles | 117 |
| HARFORD, J. P. An evaluation of a commercially available enzyme immunoassay test for the rapid detection of salmonellae in food and environmental samples | 127 |
| PLATT, D. J., BROWN, D. J., OLD, D. C., BARKER, R. M., MUNRO, D. S. and TAYLOR, J. Old and new techniques together resolve a problem of infection by <i>Salmonella typhimurium</i> | 137 |
| VASSILIADIS, P., MAVROMATI, CH., TRICHOPOULOS, D., KALAPOTIAKI, V., and PAPADAKIS, J. Comparison of procedures based upon Rappaport-Vassiliadis medium with those using Muller-Kauffmann medium containing Teepol for the isolation of <i>Salmonella</i> sp. | 143 |
| HAMPSON, D. J., FU, Z. F. and ROBERTSON, I. D. Investigation of the source of haemolytic <i>Escherichia coli</i> infecting weaned pigs | 149 |
| PAPADAKIS, J. A. and MAVRIDOU, A. The assessment of two media for the confirmation of <i>Escherichia coli</i> in water samples in single-tube tests | 155 |
| OPPENHEIM, B. A., SEFTON, A. M., GILL, O. N., TYLER, J. E., O'MAHONY, M. C., | |

| | |
|---|-----|
| RICHARDS, J. M., DENNIS, P. J. L. and HARRISON, T. G. Widespread <i>Legionella pneumophila</i> contamination of dental stations in a dental school without apparent human infection | 159 |
| OTOFUJI, T., TOKIWA, H. and TAKAHASHI, K. A food-poisoning incident caused by <i>Clostridium botulinum</i> toxin A in Japan | 167 |
| WILESMITH, J. W. and WILLIAMS, D. R. Observations on the incidence of herds with non-visible lesioned tuberculin test reactors in south-west England | 173 |
| PATERSON, A. J., MACSWEEN, K. F. and PENNINGTON, T. H. <i>Haemophilus influenzae</i> subtyping by SDS-PAGE of whole-cell polypeptides | 179 |
| VINDEL, A., MARTIN-BOURGON, C. and SAEZ-NIETO, J. A. Characterization of non-typable strains of <i>Staphylococcus aureus</i> from cases of hospital infection | 191 |
| BURNIE, J. P., MATTHEWS, R., LEE, W., PHILPOTT-HOWARD, J., BROWN, R., DAMANI, N., BREUER, J., HONEYWELL, K. and JORDANS, Z. Four outbreaks of nosocomial systemic candidiasis | 201 |
| GAD, Z. M., SHEIRIF, A. A., MAHFOUZ, A. A., YOUSSEF, N., HASAB, A. A. and HASSAN, M. N. R. An epidemiologic study of the fungal skin flora among the elderly in Alexandria | 213 |

No. 2 (OCTOBER 1987)

| | |
|---|-----|
| SPECIAL ARTICLE. GRANGE, J. M. and COLLINS, C. H. Bovine tubercle and disease in animals and man | 221 |
| BRINDLE, R. J., STANNETT, P. J. and TOBIN, J. O'H. <i>Legionella pneumophila</i> : monoclonal antibody typing of clinical and environmental isolates | 235 |
| BRINDLE, R. J., STANNETT, P. J. and CUNLIFFE, R. N. <i>Legionella pneumophila</i> : comparison of isolation from water specimens by centrifugation and filtration | 241 |
| COHEN, D., FERNE, M., ROUACH, T. and BERGNER-RABINOWITZ, S. Food-borne outbreak of group G streptococcal sore throat in an Israeli military base | 249 |
| BARNHAM, M. and NEILSON, D. J. Group L beta-haemolytic streptococcal infection in meat handlers: another streptococcal zoonosis? | 257 |
| COATES D., HUTCHINSON, D. N. and BOLTON, F. J. Survival of thermophilic campylobacters on fingertips and their elimination by washing and disinfection | 265 |
| ROGOL M. and SECHTER, I. Serogroups of thermophilic campylobacters from humans and from non-human sources, Israel 1982-1985 | 275 |
| NASTASI, A., VILLAFRATE, M. R., MAMMINA, C., MASSENTI, M. F., OLIVA, D. and SCARLATA, G. Molecular relationship among <i>Salmonella dublin</i> isolates identified at the Center for Enterobacteriaceae of Palermo during the years 1971-85 | 283 |
| WARD, L. R., DE SA, J. D. H. and ROWE, B. A phage-typing scheme for <i>Salmonella enteritidis</i> | 291 |
| LING, J., CHAU, P. Y. and ROWE, B. Salmonella serotypes and incidence of multiply-resistant salmonellae isolated from diarrhoeal patients in Hong Kong from 1973-82 | 295 |
| LING, J. and CHAU, P. Y. Incidence of plasmids in multiply-resistant salmonella isolates from diarrhoeal patients in Hong Kong from 1973-82 | 307 |

| | |
|--|-----|
| SMITH, M. G. Calculation of the expected increases of coliform organisms, <i>Escherichia coli</i> and <i>Salmonella typhimurium</i> , in raw blended mutton tissue | 323 |
| HAVERKORN, M. J. and STAAL, M. J. An estimate for the source of coagulase-negative staphylococci in blood cultures | 333 |
| MILLAR, M. R., GRIFFIN, N. and KEYWORTH, N. Pattern of antibiotic and heavy-metal ion resistance in recent hospital isolates of <i>Staphylococcus aureus</i> | 343 |
| WATERMAN, S. H., DEMARCUS, T. A., WELLS, J. G. and BLAKE, P. A. Staphylococcal food poisoning on a cruise ship | 349 |
| RILEY, T. V., BRAZIER, J. S., HASSAN, H., WILLIAMS, K. and PHILLIPS, K. D. Comparison of alcohol shock enrichment and selective enrichment for the isolation of <i>Clostridium difficile</i> | 355 |
| ADRIAANS, B. and DRASAR, B. S. The isolation of fusobacteria from tropical ulcers | 361 |
| COGHIANI, J. D. and KMETY, E. A new serovar <i>mogdeni</i> of serogroup Tarassovi of <i>Leptospira interrogans</i> isolated from a sewage plant in England | 373 |
| BAHAMAN, A. R., IBRAHIM, A. L. and ADAM, H. Serological prevalence of leptospiral infection in domestic animals in West Malaysia | 379 |
| ARIMITSU, Y., MATUHASI, T., KOBAYASHI, S., SATO, T. and CUI, J. J. Serodiagnosis of leptospirosis in China by the one-point MCA method | 393 |
| SEKI, M., SATO, T., ARIMITSU, Y., MATUHASI, T. and KOBAYASHI, S. One-point method for serological diagnosis of leptospirosis: a microcapsule agglutination test | 399 |
| PERRAUD, M., PIENS, M. A., NICOLYANNIS, N., GIRARD, P., SEPETJAN, M. and GARIN, J. P. Invasive nosocomial pulmonary aspergillosis: risk factors and hospital building works | 407 |
| MAFFEI, C., MARRACINO, A., DI STANISLAO, F., PAURI, P., CLEMENTI, M. and VARALDO, P. E. Psittacosis in a highly endemic area in Italy | 413 |
| PHONGPAICHIT, S., MACKENZIE, D. W. R. and FRASER, C. Strain differentiation of <i>Candida albicans</i> by morphotyping | 421 |
| BLUM, D., HUTTLY, S. R. A., OKORO, J. I., AKUJOBI, C., KIRKWOOD, B. R. and FEACHEM, R. G. The bacteriological quality of traditional water sources in north-eastern Imo State, Nigeria | 429 |
| HUNTER, P. R. and BURGE, S. H. The bacteriological quality of bottled natural mineral waters | 439 |
| DiGIOVANNI, C., RILEY, T. V., HOYNE, G. F., YEO, R. and COOKSEY, P. Respiratory tract infections due to <i>Branhamella catarrhalis</i> : epidemiological data from Western Australia | 445 |
| FENOLL, A., BERRON, S. and VAZQUEZ, J. A. Analysis of penicillinase-producing <i>Neisseria gonorrhoeae</i> isolates in Madrid (Spain) from 1983-85 | 455 |
| SAEZ-NIETO, J. A., FONTANALS, D., GARCIA DE JALON, J., MARTINEZ DE ARTOLA, V., PENA, P., MORERA, M. A., VERDAGEUR, R., SANFELIU, I., BELIO-BLASCO, C., PEREZ-SAENZ, J. L. and CASAL, J. Isolation of <i>Neisseria meningitidis</i> strains with increase of penicillin minimal inhibitory concentrations | 463 |
| TILLETT, H. E. Most probable numbers of organisms: revised tables for the multiple tube method | 471 |
| BAXTER, D. N. and GIBBS, A. C. C. How are the sub-units pertussis vaccines to be evaluated? | 477 |

| | |
|--|-----|
| CLARKSON, J. A. and FINE, P. E. M. An assessment of methods for routine local monitoring of vaccine efficacy, with particular reference to measles and pertussis | 485 |
| POTTER, C. W., JENNINGS, R., ALI, M. J., WOOD, J. M., DUNLEAVY, U. and TYRRELL, D. A. J. Sequential infection or immunization of ferrets with a series of influenza A (H3N2) strains | 501 |
| NIKLASSON, B., LILJESTRAND, J., BERGSTROM, S. and PETERS, C. J. Rift Valley fever: a sero-epidemiological survey among pregnant women in Mozambique | 517 |
| ANESTAD, G. Surveillance of respiratory viral infections by rapid immunofluorescence diagnosis, with emphasis on virus interference | 523 |
| ELFATIH, M., MOHAMMED, H. and TAYLOR, W. P. Infection with bluetongue and related orbiviruses in the Sudan detected by the study of sentinel calf herds | 533 |
| EGBAFONA, N. O., AHMAD, A. A., ODAMA, L. E., ONUORA, C., GOSHAM, L. T., EME-JUAIWE, S. O. and WOGHIREN, E. I. The levels of measles antibodies in Nigerian children aged 0-12 months and its relationship with maternal parity | 547 |
| BLACKBURN, N. K., THOMPSON, D. L. and JUPP, P. G. Antigenic relationship of West Nile strains by titre ratios calculated from cross-neutralization test results | 551 |
| NIKLASSON, B., LEDUC, J., NYSTROM, K. and NYMAN, L. Nephropathia epidemica: incidence of clinical cases and antibody prevalence in an endemic area of Sweden | 559 |
| PORTER, C. D., MUHLEMANN, M. F., CREAM, J. J. and ARCHARD, L. C. Molluscum contagiosum: characterization of viral DNA and clinical features | 563 |

No. 3 (DECEMBER 1987)

| | |
|--|-----|
| JOSEPH LISTER, 1827-1912 | 567 |
| SPECIAL ARTICLE. LIDWELL, O. M. Joseph Lister and infection from the air | 569 |
| STUART, J. M., CARTWRIGHT, K. A. V., JONES, D. M., NOAH, N. D., WALL, R. J., BLACKWELL, C. C., JEPHCOTT, A. E. and FERGUSON, I. R. An outbreak of meningococcal disease in Stonehouse: planning and execution of a large-scale survey | 579 |
| CARTWRIGHT, K. A. V., STUART, J. M., JONES, D. M. and NOAH, N. D. The Stonehouse survey: nasopharyngeal carriage of meningococci and <i>Neisseria lactamica</i> | 591 |
| WITTE, W. and BRAULKE, C. Multiply- and methicillin-resistant <i>Staphylococcus aureus</i> strains isolated in the German Democratic Republic in 1985 and 1986. | 603 |
| SCOTLAND, S. M., WILLSHAW, G. A., SMITH, H. R. and ROWE, B. Properties of strains of <i>Escherichia coli</i> belonging to serogroup 0157 with special reference to production of Vero cytotoxins VT1 and VT2 | 613 |
| SIMOONS-SMIT, A. M., VERWEIJ-VAN VUGHT, A. M. J. J., DE VRIES, P. M. J. M. and MACLAREN, D. M. Comparison of biochemical and serological typing results and antimicrobial susceptibility patterns in the epidemiological investigation of <i>Klebsiella</i> spp. | 625 |
| SANYAL, D., BURGE, S. H. and HUTCHINGS, P. G. Enteric pathogens in tropical aquaria | 635 |
| PELAZ, C., ALBERT, L. G. and BOUROON, C. M. Cross-reactivity among <i>Legionella</i> species and serogroups | 641 |
| SKIRROW, M. B. A demographic survey of campylobacter, salmonella and shigella infections in England | 647 |

| | |
|---|-----|
| DIJKSHOORN, L., VAN VIANEN, W., DEGENER, J. E. and MICHEL, M. F. Typing of <i>Acinetobacter calcoaceticus</i> strains isolated from hospital patients by cell envelope protein profiles | 659 |
| JOHNSON, A. P., ABECK, D., WALL, R. A., MABEY, D. C. W. and TAYLOR-ROBINSON, D. Plasmid content, auxotype and protein-I serovar of gonococci isolated in the Gambia | 669 |
| UDWADIA, F. E., LALL, A., UDWADIA, Z. F., SEKHAR, M. and VORA, A. Tetanus and its complications: intensive care and management experience in 150 Indian patients | 675 |
| MOULE, J. H., CAUL, E. O. and WREGHITT, T. G. The specific IgM response to <i>Mycoplasma pneumoniae</i> infection: interpretation and application to early diagnosis | 685 |
| PALMER, S. R. and BIFFIN, A. H. B. The changing incidence of human hydatid disease in England and Wales | 693 |
| GOUDSMIT, J. and PAUL, D. A. Circulation of HIV antigen in blood according to stage of infection, risk group, age and geographic origin | 701 |
| PATEL, J. R. and SHILLETO, R. W. Detection of lymphoproliferative disease virus by an enzyme-linked immunosorbent assay | 711 |
| HARESNAPE, J. M., LUNGU, S. A. M. and MAMU, F. D. An updated survey of African swine fever in Malawi | 723 |
| HAMBLIN, C., KITCHING, R. P., DONALDSON, A. I., CROWTHER, J. R. and BARNETT, I. T. R. Enzyme-linked immunosorbent assay (ELISA) for the detection of antibodies against foot-and-mouth disease virus | 733 |
| PYHALA, R., PYHALA, L., VALLE, M. and AHO, K. Egg-grown and tissue-culture-grown variants of influenza A (H3N2) virus with special attention to their use as antigens in seroepidemiology | 745 |
| SUNTHARASAMAI, P., WARRELL, M. J., VIRAVAN, C., CHANTHAVANICH, P., LOOAREESUWAN, S., SUPAPOCHANA, A., SUPANARANOND, J. K. W., CHITTAMAS, S., BIJOK, U. and WARRELL, D. A. Purified chick embryo cell rabies vaccine: economical multisite intradermal regimen for post-exposure prophylaxis | 755 |
| REQUENA CABALLERO, L., REQUENA CABALLERO, C., REQUENA CABALLERO, I., SANCHEZ LOPEZ, M., VAZQUEZ LOPEZ, F., ROMERO GUERRERO, J. and CASADO JIMENEZ, M. Prevalence and risk factors of hepatitis B in Spanish prostitutes | 767 |
| BARTHOLOMEW, B. A., BERRY, P. R., RODHOUSE, J. C., GILBERT, R. J. and MURRAY, C. K. Scrombrotoxic fish poisoning in Britain: features of over 250 suspected incidents from 1976 to 1986 | 775 |
| ADDENDUM. RIBEIRO, C. D., BURGE, S. H., PALMER, S. R., TOBIN, J. O'H., and WATKINS, I. D. <i>Legionella pneumophila</i> in a hospital water system following a nosocomial outbreak: prevalence, monoclonal antibody subgrouping and effect of control measures | 783 |

Continued from back cover

| | |
|---|-----|
| Egg-grown and tissue-culture-grown variants of influenza A (H3N2) virus with special attention to their use as antigens in seroepidemiology | |
| Pyhala, R., Pyhala, L., Valle, M. and Aho, K. | 745 |
| Purified chick embryo cell rabies vaccine: economical multisite intradermal regimen for post-exposure prophylaxis | |
| Suntharasamai, P., Warrell, M. J., Viravan, C., Chanthavanhich, P., Looareesuwan, S., Supapochana, A., Supanaranond, J. K. W., Chittamas, S., Bijok, U. and Warrell, D. A. | 755 |
| Prevalence and risk factors of hepatitis B in Spanish prostitutes | |
| Requena Caballero, L., Requena Caballero, C., Requena Caballero, I., Sanchez Lopez, M., Vazquez Lopez, F., Romero Guerrero, J. and Casado Jimenez, M. | 767 |
| Scombrotoxic fish poisoning in Britain: features of over 250 suspected incidents from 1976 to 1986 | |
| Bartholomew, B. A., Berry, P. R., Rodhouse, J. C., Gilbert, R. J. and Murray, C. K. | 775 |
| Addendum. <i>Legionella pneumophila</i> in a hospital water system following a nosocomial outbreak: prevalence, monoclonal antibody subgrouping and effect of control measures | |
| Ribeiro, C. D., Burge, S. H., Palmer, S. R., Tobin, J. O'H. and Watkins, I. D. | 783 |

Epidemiology and Infection

(Formerly the Journal of Hygiene)

Original reports and reviews on all aspects of
infection of man and animals

CONTENTS

| | |
|--|-----|
| Joseph Lister, 1827-1912 | 567 |
| Special Article. Joseph Lister and infection from the air | 569 |
| Lidwell, O. M. | 569 |
| An outbreak of meningococcal disease in Stonehouse: planning and execution of a large-scale survey | 579 |
| Stuart, J. M., Cartwright, K. A. V., Jones, D. M., Noah, N. D., Wall, R. J., Blackwell, C. C., Jephcott, A. E. and Ferguson, I. R. | 579 |
| The Stonehouse survey: nasopharyngeal carriage of meningococci and <i>Neisseria lactamica</i> | 591 |
| Cartwright, K. A. V., Stuart, J. M., Jones, D. M. and Noah, N. D. | 591 |
| Multiply- and methicillin-resistant <i>Staphylococcus aureus</i> strains isolated in the German Democratic Republic in 1985 and 1986 | 603 |
| Witte, W. and Braulke, C. | 603 |
| Properties of strains of <i>Escherichia coli</i> belonging to serogroup O157 with special reference to production of Vero cytotoxins VT1 and VT2 | 613 |
| Scotland, S. M., Willshaw, G. A., Smith, H. R. and Rowe, B. | 613 |
| Comparison of biochemical and serological typing results and antimicrobial susceptibility patterns in the epidemiological investigation of <i>Klebsiella</i> spp. | 625 |
| Simoons-Smit, A. M., Verweij-Van Vught, A. M. J. J., De Vries, P. M. J. M. and MacLaren, D. M. | 625 |
| Enteric pathogens in tropical aquaria | 635 |
| Sanyal, D., Burge, S. H. and Hutchings, P. G. | 635 |
| Cross-reactivity among <i>Legionella</i> species and serogroups | 641 |
| Pelaz, C., Albert, L. G. and Bourgon, C. M. | 641 |
| A demographic survey of campylobacter, salmonella and shigella infections in England | 647 |
| Skirrow, M. B. | 647 |
| Typing of <i>Acinetobacter calcoaceticus</i> strains isolated from hospital patients by cell envelope protein profiles | 659 |
| Dijkshoorn, L., Van Vianen, W., Degener, J. E. and Michel, M. F. | 659 |
| Plasmid content, auxotype and protein-I serovar of gonococci isolated in the Gambia | 669 |
| Johnson, A. P., Abeck, D., Wall, R. A., Mabey, D. C. W. and Taylor-Robinson, D. | 669 |
| Tetanus and its complications: intensive care and management experience in 150 Indian patients | 675 |
| Udwadia, F. E., Lall, A., Udwadia, Z. F., Sekhar, M. and Vora, A. | 675 |
| The specific IgM response to <i>Mycoplasma pneumoniae</i> infection: interpretation and application to early diagnosis | 685 |
| Moule, J. H., Caul, E. O. and Wreggitt, T. G. | 685 |
| The changing incidence of human hydatid disease in England and Wales | 693 |
| Palmer, S. R. and Biffin, A. H. B. | 693 |
| Circulation of HIV antigen in blood according to stage of infection, risk group, age and geographic origin | 701 |
| Goudsmit, J. and Paul, D. A. | 701 |
| Detection of lymphoproliferative disease virus by an enzyme-linked immunosorbent assay | 711 |
| Patel, J. R. and Shilleto, R. W. | 711 |
| An updated survey of African swine fever in Malawi | 723 |
| Harewape, J. M., Lungu, S. A. M. and Mamu, F. D. | 723 |
| Enzyme-linked immunosorbent assay (ELISA) for the detection of antibodies against foot-and-mouth disease virus | 733 |
| Hamblin, C., Kitching, R. P., Donaldson, A. L., Crowther, J. R. and Barnett, I. T. R. | 733 |

Continued inside back cover

Cambridge University Press

The Pitt Building, Trumpington Street, Cambridge CB2 1RP
 32 East 57th Street, New York, NY 10022, USA
 10 Stamford Road, Oakleigh, Melbourne, 3166, Australia

© Cambridge University Press 1987
 Printed in Great Britain by the University Press, Cambridge