

lactamase production by *Haemophilus influenzae*. *Lancet* 1977;ii:906.

* Kilian M. A taxonomic study of the genus *Haemophilus*, with the proposal of a new species. *J Gen Microbiol* 1976;93:9-62.

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The August 1982 issue

THE AUGUST 1982 ISSUE CONTAINS THE FOLLOWING PAPERS

Oxygen transport in chronic hypoxic lung disease DC FLENLEY

Urine cyclic nucleotide concentrations in cancer and other conditions; cyclic GMP: a potential marker for cancer treatment GA TURNER, RD ELLIS, D GUTHRIE, AL LATNER, JM MONAGHAN, WM ROSS, AW SKILLEN, RG WILSON

Measurement of the fasting urinary hydroxyproline: creatinine ratio in normal adults and its variation with age and sex A HODGKINSON, T THOMPSON

Hyperplastic parathyroiditis — a new autoimmune disease? BF BOYCE, VR DOHERTY, G MORTIMER

Lysozyme in chronic liver disease: a biochemical and histological study IH MANIFOLD, FM BISHOP, P CLOKE, DR TRIGER, JCE UNDERWOOD

Distribution of plasma cells in normal rectal mucosa RCF LEONARD, ICM MACLENNAN

Angiodysplasias of the colon DJ POUNDER, R ROWLAND, AS PIETERSE, R FREEMAN, R HUNTER

Pathology of colorectal adenomas: a colonoscopic survey F KONISHI, BC MORSON

Fibroma of tendon sheath PS SMITH, AS PIETERSE, J MCCLURE

Recurring digital fibroma G MORTIMER, AAM GIBSON

Segmental lymph-node infarction after fine-needle aspiration JD DAVIES, AJ WEBB

A new manifestation of thrombocytopenia: myocardial haemorrhage with symptomatic arrhythmia PJ WYLD, S BECK, DN SLATER

Cytogenetic study in acute myeloid leukaemia using peripheral blood samples sent by post YSLI, FGJ HAYHOE

C-reactive protein concentration as a guide to antibiotic therapy in acute leukaemia KP SCHOFIELD, F VOULGARI, DI GOZZARD, MJ LEYLAND, NJ BEECHING, J STUART

Morphological and functional disturbances of platelets induced by cryopreservation H BAYTHOON, EGD TUDDENHAM, RA HUTTON

Biotyping of *Enterobacter cloacae* DC OLD

Value of the minimum bactericidal concentration of antibiotics in the management of a case of recurrent *Streptococcus bovis* septicaemia LENA ROBINSON, K FONSECA

A microcomputer system for clinical bacteriology: experience of 12 months' trial RJ COURCOL, M ROUSSEL-DELVALLEZ, GR MARTIN

Frequency of *Candida albicans* serotypes in patients with denture-induced stomatitis and in normal denture wearers MV MARTIN, DJ LAMB

Enzyme-linked immunosorbent assay (ELISA) using antibody class capture for the detection of antitoxoplasma IgM RA PAYNE, M ISAAC, JANET M FRANCIS

Technical methods

Staining properties of human intestinal mucosal mast cells after glutaraldehyde fixation S STROBEL, M HASAN, ANNE FERGUSON

Manual screening for immune antitetanus antibodies by means of latex coated with tetanus toxoid JR BOOTH, PA NUTTALL

Letters to the editor

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Book reviews

the presently poorly defined epidemiology of *Campylobacter* infections.

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with 2% FCS in HBSS were examined under a fluorescence microscope. Controls included target cell (MCF7) suspensions incubated with fluorescein labelled MBR1 (positive controls) or with murine monoclonal IgM^o unrelated to human mammary cancer (negative substitution controls).

The direct immunofluorescence results were correlated with the cytopathological findings. In all four cases cytologically positive for malignancy breast carcinoma cells could be clearly identified by strong membrane fluorescence. Mesothelial cells, polymorphonuclear leucocytes and red blood cells present in all nine cases were always negative by immunofluorescence.

We are currently extending our investigation to include effusions with atypical cells as well as cases of serous effusions from patients with extra mammary tumours. Our preliminary data indicate that immunocytochemical screening with monoclonal antibodies is of diagnostic use in the discrimination between mesothelial and breast carcinoma cells in effusions.

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- 3 Raju RN, Kardinal CG. Pleural effusion in breast carcinoma: analysis of 122 cases. *Cancer* 1981;48:2524-7.
- 4 Koss LG. Examination of effusions (pleural, ascitic and pericardial fluids). In: Wied GL, Koss LG, Reagan JW, eds. *Compendium on diagnostic cytology* 4th ed. Chicago: Tutorials of Cytology, 1976.
- 5 Coleman DV, To A, Dearnaley DP, Ormerod MG. An immunocytochemical approach to the cytodagnosis of malignancy in serous

effusions (abstract). *Acta Cytol* 1981;25:716.

- 6 Smith NJ, Dziura BR, Gondos B. Use of blood group isoantigens in distinguishing benign and malignant cells in effusion (abstract). *Acta Cytol* 1980;24:66-7.
- 7 Ménard S, Tagliabue E, Canevari S, Fossati G, Colnaghi MI. Generation of monoclonal antibodies reacting with human breast cancer. Submitted for publication, 1982.
- 8 Canevari S, Fossati G, Balsari A, Sonnino S, Colnaghi MI. Immunochemical analysis of the determinant recognized by a monoclonal antibody (MBri) which specifically binds to human mammary epithelial cells. Submitted for publication, 1982.
- 9 Colnaghi MI, Ménard S, Tagliabue E, Della Torre G. Heterogeneity of the natural humoral anti-tumor immune response in mice as shown by monoclonal antibodies. *J Immunol* 1982;128:(in press).

Notices

NEQAS Autoimmune Serology and Special Immunochemistry

This new division of the National External Quality Assessment Scheme is currently inviting participation in two EQA circuits.

1 *Autoimmune Serology*: Antinuclear antibody, Rheumatoid factor, Thyroid antibodies.

A subsidiary circuit will also cater for EQA of other, less commonly requested auto-antibodies.

2 *AFP in amniotic fluid*

Any laboratory interested in enrolling in these EQA circuits should contact: Dr A Milford Ward or Mr PAE White, Protein Reference Unit, Royal Hallamshire Hospital, Sheffield S10 2JF.

Association of Clinical Pathologists; Course for non-medically qualified microbiologists

Following the format of previous courses, and provided there is sufficient demand, the Association's Course for Non-Medically Qualified Graduate Microbiologists (Whitley A, University, MRC or PHLS posts) will be held in the Spring or early Summer of 1983 at Queen Charlotte's Maternity Hospital Goldhawk Road, London W6 0XG. The non-residential Course is limited to 15 persons, and the Course fee, covering 10 days of lectures, including site visits, is £90.00; this includes tea and coffee, but not luncheon.

Those who are intending to come should notify Mrs Paulette Mullings, Department of Microbiology, Queen Charlotte's

References

- 1 Bolton FJ, Robertson L. A selective medium for isolating *Campylobacter jejuni/coli*. *J Clin Pathol* 1982;35:462-7.
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- 3 Abbott J, Dale BAS, Eldridge J, Jones DM, Sutcliffe EM. Serotyping of *Campylobacter jejuni/coli*. *J Clin Pathol* 1980;33:762-6.
- 4 Skirrow MB, Benjamin J. '1001' *Campylobacters*: cultural characteristics of intestinal campylobacters from man and animals. *J Hyg (Camb)* 1980;85:427-42.

Immunocytochemical identification of breast carcinoma cells in effusions using a monoclonal antibody

It is widely recognised that the differential diagnosis between activated mesothelial and malignant epithelial cells in effusions may be very difficult.¹⁻⁴ The immunocytochemical approach to cytodagnosis of malignancy is in its beginnings,^{5,6} but may be the answer to the need for a more sensitive and specific diagnostic tool in effusion cytopathology.

We wish to report encouraging results obtained in the discrimination of mammary carcinoma cells from mesothelial cells in effusions using a monoclonal antibody in a direct immunofluorescence assay. Murine monoclonal IgM MBR1 was prepared against the membrane fraction of the human breast cancer cell line MCF7 and was extensively characterised by solid phase radioimmunoassay, immunofluorescence and immunoperoxidase on tissue sections.⁷ The target antigen is a low molecular weight glycolipid which is strongly expressed in both malignant and benign mammary epithelium.^{7,8} Fresh effusion fluids (8 pleural, 1 peritoneal) from breast cancer patients were divided in two aliquots, one of which was routinely processed for cytopathologic examination. The cells obtained from the other aliquot were incubated in fluorescein labelled purified MBR1 (1 mg/ml) diluted 1/100 in Hanks' balanced salt solution (HBSS) with 2% fetal calf serum (FCS) (30 min at 37°C). Smears prepared after washing of the cells

Maternity Hospital, Goldhawk Road, London W6 0XG. Telephone: 01-748 4666 extension 229/338 by 15th September 1982, from whom general information on the style and content of the Course is available.

Addendum

With reference to his letter in the August issue, ¹ Professor Corrin cites three additional cases: "Benjamin and Ahmed² report two more cases of silicone lymph adenopathy one with concomitant lymphoma, and draw attention to a third."

References

- ¹ Corrin B. Letter—silicone lymph adenopathy. *J. Clin Pathol* 1982;35:901-2.
- ² Benjamin E, Ahmed A. Silicone lymph adenopathy: a report of two cases, one with concomitant malignant lymphoma. *Diagn Histopathol* 1982;5:133.

Some new titles

Procedure Manual for Clinical Bacteriology: Annotated Dorothy Branson. (Pp 358; \$39.75 spiral bound.) Charles C Thomas. 1982.

The Biology of Tumour Malignancy. GV Sherbet. (Pp 255; illustrated; £19.20.) Academic Press Inc (London) Ltd. 1982.

Clinical Decisions and Laboratory Use. Ed DP Connelly, ES Benson, MD Burke and D Fenderson. (Pp 355; illustrated; \$29.50.) University of Minnesota Press. 1982.

The Lymphokines: Biochemistry and Biological Activity. Eds JW Hadden and WE Stewart II. (Pp 437; illustrated; \$69.50.) The Humana Press Inc. 1981.

For over a decade well-meaning immunologists concerned with mononuclear cell interactions have been prisoners of bioassay techniques increasingly eschewed by scientists in other disciplines. Ironically this situation was just starting to change as the contributors to this volume were assembling their final reference lists. The chapters have been carefully and painstakingly

written and the editor has obtained balanced contributions on every important aspect of mononuclear cell interactions. Indeed this rather voluminous text faithfully reflects the complexities inescapable with such cumbersome methodology. Certainly it is a book for immunological research workers and not a laboratory handbook. The better the available techniques the more incisive the contribution is one's principal impression. Thus the chapter on prostaglandins will outlive that devoted to "transfer factor". However the sophisticated analysis of the interleukins threatens the survival of many of these contributions. One looks forward to a second edition less diffuse in form, more defined in scope, and with an incubation period to match the speed of methodological transition.

AM DENMAN

Diagnostic Special Stains for Surgical Pathology. Erwin Haas. (Pp 189; illustrated; £24.50.) JB Lippincott Co. 1981.

Here we have a controversial book. If you believe there are fifty "diagnostic" special staining techniques, it may be of value. But to histopathologists who use special stains to build up observed information that leads to a considered judgement it will not be attractive. Leaving aside these basic differences in attitudes and work style, and the price, it must be said that the methods are almost all in other books that we have in the laboratory. The photomicrographs are not always adequate, the legends are misleadingly incomplete, and the alphabetical arrangement of the techniques has scattered related methods that should be grouped together.

RAB DRURY

The Cellular Basis of the Immune Response. 2nd ed. ES Golub. (Pp 330; illustrated; £8.40.) Addison-Wesley Publishers Limited. 1981.

Given the rapid accumulation of data on immunological subjects, most students of immunology need an Everyman's guide which will lead them sure-footedly through the mass of new discoveries and changing concepts. Moreover many of these discoveries are really here to stay and are not transient observations of ill-understood phenomena. Dr Golub has evolved the right formula for such a guide. His selection of material is incisive and purposive so

that the reader feels part of a relaxed scientific enquiry rather than the hapless recipient of dry, unsorted facts. Experimental data have been selected to illustrate important themes, not just to impress with surplus erudition.

This is a splendid course book for undergraduate students of immunology or postgraduate students needing a more general background to their specialised field of study. It will be less attractive to pathologists or clinicians immediately concerned with the clinical applications of immunology but will appeal to those doctors who prefer to think for themselves about immunology.

AM DENMAN

Methods in Haematology. Quality Control. Ed I Cavill. (Pp 191; illustrated; £14.) Churchill Livingstone. 1982.

Essentially this is a bench book which covers not only the principles and practice of standardisation in blood counting, serology, and coagulation tests, but covers the principles of standardisation of laboratory performance both inside single laboratories and in groups of laboratories. There are a number of bonuses such as the chapter on the interpretation and significance of laboratory results and the excellent and economical foreword and appendix on statistical techniques. These are both exceptionally well presented with maximum economy. Candidates both for the IMLS special examination and the MRC Path in Haematology should consider this volume required reading and each haematology laboratory should possess its reference copy.

S ROATH
JL FRANCIS

Electron Microscopy in Human Medicine. Vol 4. Soft Tissues, Bones and Joints. Ed Jan Vincents Johannessen. (Pp 325; illustrated; £49.95.) McGraw-Hill Book Company (UK) Limited. 1982.

Produced in the same lavish layout as the rest of this series volume 4 plumbs the somewhat murky depths of soft tissue and bone and joint pathology. Tumours arising from these tissues may frequently cause diagnostic difficulties and therefore it is useful to have a reference book outlining the findings of others on the ultrastructure of such lesions. The features described are rarely specific or diagnostic for individual