Letters to the Editor

The assistance of Miss A Y Foo in the evaluation of this modification is gratefully acknowledged.

Reference
1 Rosalki SB. Creatine kinase isoenzyme demonstration and measurement. ACP Broadsheet 106, 1982.

Book reviews

Children with Sex Chromosome Aneu

The Limulus Test is not used as a routine in Britain and there is considerable debate about its place in clinical laboratory practice. This collection of papers will be useful to anyone with an interest in possible applications of the Limulus Test and to anyone concerned with the difficult field of pyrogen tests and pyrogenic substances.

The Proceedings of a wide-ranging conference such as this tend to vary in quality of presentation and content. In addition, there is variation in the type face of different papers in this volume. The verbatim accounts of the verbal exchanges at the meeting may include some useful information, but this approach is expensive and inelegant and should be abandoned in favour of the services of someone who can write a succinct and more helpful account of such exchanges.

There is a mass of information in this book. It is less likely to be of interest to clinicians than to those who are technically involved in various areas of pathology, pharmacology and microbiology. It will certainly be of interest to those concerned with the detection and measurement of endotoxins and pyrogens. At £35 this collection of papers is rather expensive.

JG COLLE


One of the editorial ‘perks’ is first choice of the books to review and some restraint is needed so as not to be selfish. However, restraint was cast aside for this revised version of the AFIP Fascicle on ‘Tumors of the Soft Tissues’ and I carried it off to my laboratory with pleasure. This book should be on the shelf of every histologist with responsibility for reporting soft tissue lesions. The format is as before but expanded to take account of subjects previously dealt with inadequately or not at all. The presentation is even throughout, the photographs are excellent. I particularly enjoyed the section on malignant fibrous histiocytoma.

There are numerous electron micrographs to support the classical histology but it is a pity, though understandable, that immunofluorescent and immunoperoxidase techniques are omitted. The second edition Fascicle on CNS tumours has already been followed by a brief supplement. It would be very helpful if that precedent could be followed for soft tissue


This is an account of the Proceedings of an International Conference on Endotoxin Standards and the Limulus Amebocyte Lysate Test held at Massachusetts in September 1981.

Staining modification of creatine kinase isoenzyme method

Following the publication of ACP Broadsheet 106 in which I described a fluorescence method for the detection and measurement of creatine kinase isoenzymes following cellulose acetate electrophoresis, I have been asked if the method could be adapted to isoenzyme staining by the tetrazolium reduction technique. This can be readily achieved by the addition of 2-5 mg of nitro blue tetrazolium (NBT), and of 0-025 mg of phenazine methosulphate (PMS) or Meldola’s blue—for example, 25 µl of a freshly prepared aqueous solution of concentration 1 mg per ml to each 2-5 ml of the double strength enzyme substrate (reagent 2) immediately prior to its mixture with 2-5 ml agar (reagent 3). Incubation of the cellulose acetate membrane with the modified substrate-agar mixture is then carried out in the dark in a moist chamber for one hour, following which the membrane is rinsed for one minute in a 5% vol/vol aqueous dilution of acetic acid, rinsed for a further minute in distilled water and dried between absorbent paper under pressure.

The staining procedure is of comparable sensitivity to the fluorescence method with a detection limit approximately 3 U/l at 30°C (5 U/l at 37°C). It takes longer to complete because the incubation time is one hour, but has the advantage of yielding semi-permanent stained bands which can be densitometrically scanned in the visible rather than the UV range. Direct comparison of the two methods on isoenzyme mixtures has demonstrated that the relative proportions (recoveries) of each isoenzyme fraction are identical with both the staining and the UV procedure. Meldola’s blue is a more stable electron carrier than the frequently used PMS and produces slightly less background colour.

SIDNEY B ROSALKI
Department of Chemical Pathology, Royal Free Hospital, Pond Street, Hampstead, London, NW3 2QG