Technical method

The use of this graph paper requires no data processing and is therefore somewhat simpler than the ratio method described by Hales and Randle (1963), as well as more convenient and more accurate than the conventional curve-fitting procedure.

Calculation of the total quantities of digoxin bound by the antibody reveals that binding was approximately constant through the range of concentrations tested, as expected from the linearity of the graph shown in the figure. With increasing concentration, however, binding declined slightly, which suggests that it may be inhibited at particularly high concentrations of ligand. The reason for this is unknown at present.

We thank St. Thomas's Hospital Endowment Fund for financial support.

References


Book reviews


This is the hard-cover edition (2lb 4oz) of the Proceedings of the Second International Symposium on the Cellular Aspects of Transplantation held in France in June 1973. The Proceedings were originally published in December 1973 as part of the soft-back quarterly journal Transplantation Proceedings (2lb 9oz). The papers are concerned with the parallel developments in the unravelling of the complexity of the histocompatibility systems in man and mouse. To read it all is quite hard work because there is inevitably some repetition but the acknowledged experts in this field are all represented.

The first part of the volume is concerned with the recognition phase, that is, how cells recognize the foreignness of others. The second part is devoted to the destruction phase which involves the development, in the mixed lymphocyte culture reaction, of cytotoxic lymphocytes which subsequently react against specific target cells. The third part deals with the application of these systems to the in vivo situation in man and other animals. The importance of both serological and tissue culture matching procedures is demonstrated.

The mixed lymphocyte culture reaction has applications in tissue transplantation in man, and further knowledge of the genetics which control the recognition and response phenomena of the system will undoubtedly lead to practical advances. The approach that is being used in man is to attempt to find genetically homozygous individuals by testing the offspring of first-cousin marriages.

The last part of the book deals with the question of how the antigens of the various histocompatibility systems are expressed on the lymphocyte surface. This is the area from which the next advances are likely to come.

Sylvia D. Lawler


This differs from other technical manuals of its kind in that it is thinner and better illustrated and concentrates upon staining methods in histopathology. It is designed for histopathologists and their technologists with the expressed intention of trying to bring them closer together; in addition, there is emphasis on the explanation of the rationale of staining reactions. All these are admirable objectives, especially at the present time, when more and more technological training in histopathology is conducted outside the hospital laboratory. The young pathologist might hope that this book will tell him which are the best stains for a particular tissue component, but the tables are in the classical form, showing the tissue components that are demonstrated by each staining technique. Despite the attempt to explain the underlying principles of histological staining methods, the known chemical reactions are not emphasized or are not stated in chemical terms; this seems a pity when the progress of histopathological technique from an art to a science must depend upon all of us knowing the details of the chemical mechanisms of the staining reactions which we do understand. This book may be of particular value to the junior pathologist in his first year in histopathology and to the university graduate who is making the transition from pure science into the technological aspects of histopathology.

R. A. B. Drury


An international symposium 'Rapid Methods and Automation in Microbiology' was held in June 1973 in Stockholm, sponsored by UNESCO, WHO, and the International Organization for Biotechnology and Bioengineering. This
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R. A. B. Drury

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