inadequate vagotomy (the figure should have been 30% as shown in our article). The first paper quoted in the letter gave no data and Grossman's conclusions were drawn from other studies which can be similarly criticised.

The comments in the second paragraph we agree with, but they are peripheral to the main point. We reiterate our view as expressed in our paper that, while the sensitivity hypotheses can still explain the observed facts, it demands belief in a coincidence which our alternative hypothesis does not need.

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Books

Recent advances in mucosal immunity Edited by W Strober, L A Hanson, and K W Sell. (Pp. 435; illustrated; £68.90.) New York: Raven Press. 1982. This book is based on a symposium held at the National Institutes of Health. The contributors are immunologists and a highly distinguished panel has been assembled to present a first class account of current knowledge of mucosal immunity. The subject is presented in well laid out sections. Lymphocyte traffic through the mucosa, the secretory immunoglobulin system and the role of liver macrophages in processing absorbed antigens are predictably included and are well covered as is the transport of IgA across the liver.

Two sections which I found particularly exciting were those dealing with T and B cell cooperation within the mucosa and the differentiation of IgA-B cells. Both of these sections are demanding reading but the effort is worth it for the new concepts and

ideas for future research that they contain. There is a section devoted to intraepithelial lymphocyte function which is a useful summary but perhaps pays too little attention to the difficulties of interpretation when pure populations of cells cannot be achieved. Finally, there are sections on the role of mucus, the interactions of micro-organisms with epithelial cells and mucosal immunity within mammary glands. One of the notable features of the book is that each section concludes with an overview entitled 'Review and Discussion', the majority of which are excellent and place the individual contributions in context of wider knowledge.

I had only one criticism of the book in general. It is almost entirely devoted to animal studies. This is not surprising as inevitably human data are difficult to obtain. Some human data are available, however – for example, functional and phenotypic characterisation of mucosal T cells – and a review of these in health and disease, in the context of basic immunological studies, might have been helpful.

Nevertheless, this book is full of information, contains some valuable summaries, and will be of great help to those working in the field. It certainly requires an understanding of immunology and is not to be recommended for the general reader. It should be a 'must' for those involved in mucosal immunity but, at £68.90, it will be a prohibitive one.

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Ultrasound annual 1982 Edited by RC Sanders. (Pp. 353; illustrated; \$59.52.) New York: Raven Press. 1982.

Ultrasound has rapidly become one of the most important non-invasive imaging modalities available, and this book will prove useful not only to those starting to learn the technique but also those already experienced in the subject.

There are 10 chapters in the book and these cover ultrasound of the pancreas, renal medical disorders, neonatal intracranial ultrasound, the gall bladder, the carotid artery, operative real-time B-mode scanning, obstetric measurement, ultrasonic puncture techniques, breast ultrasonography, and fetal echocardiography. As these sections are written by various experts in the field, there is obviously considerable variation in the approach to the subject in the different chapters. The overall impression given by the book, however, is excellent. There are plentiful illustrations of normal anatomy and pathological conditions, and most of the contributors contrive to give a very balanced and careful assessment of the scope and the limitations of ultrasound in their particular field of interest. There are no serious criticisms to be made of the book and