

Essential Immunology

Fifth Edition

As with previous editions, the fifth has been completely rewritten, and includes:

- considerable extension of the sections on idiotype networks, monoclonal antibodies and modern vaccine development
- latest developments in the T-cell receptor and in the application of molecular biological techniques to immunoglobulin diversity and class-switching
- emphasis on the role of interleukins in the immune response, and newer work on the major histocompatibility complex molecules and their biological roles
- new analysis of the factors underlying the development of autoimmunity and the importance of hormone receptor auto-antibodies in disease
- focus on new drugs such as

The author

Professor Roitt was born in 1927 and educated at King Edward's School, Birmingham, and Balliol College, Oxford. Soon after taking up research at the Middlesex Hospital Medical School in 1953, he began work with Peter Campbell on experimental tumour autoimmunity. In 1956, together with Deborah Doniach, they made the classic discovery of thyroglobulin auto-antibodies in Hashimoto's thyroiditis which helped to open up the whole concept of a relationship between autoimmunity and human disease. The work was extended to an intensive study of autoimmune phenomena in pernicious anaemia and primary biliary cirrhosis. This work was recognised by the award of the Van Meter prize of the American Goiter Association in 1957 and a Gairdner Foundation award in 1964.

Shortly after becoming Professor and Head of the newly created Department of Immunology at the Middlesex Hospital, Roitt and his colleagues began a series of experiments on rheumatoid arthritis which have greatly strengthened the hypothesis that the pathogenesis of joint destruction in this disease may be entirely attributable to

Cyclosporin A, new methods such as 'immunoblotting' and 'new' diseases like acquired immunodeficiency syndrome (AIDS)

- updating of all other sections
- new colour diagrams and colour plates.

From the reviews of the fourth edition

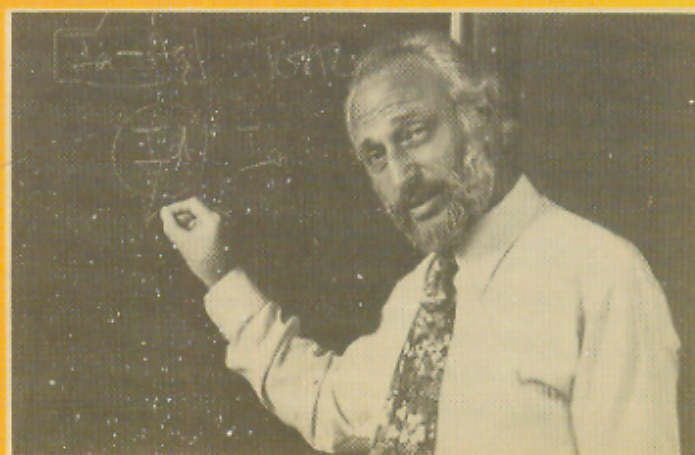
'This book should be in the library of every immunologist. . . It is recommended highly.' *ASM News*

'This superb book has rapidly attained 'classic' status . . . a definite winner and value for money.' *Medical Textbook Review*

'The fourth edition in less than ten years of Professor Roitt's book is an indication of the success and popularity of this outstanding, concise volume.'

Journal of Dental Education

'Like its previous editions, this book has to be a success.' *Zenith*



IgG autosensitization. In 1969 he and his colleagues wrote a review of cellular immunology in which the abbreviations B and T lymphocyte were first introduced.

Professor Roitt has been a member of the editorial boards of many journals, meetings secretary of the British Society for Immunology, chairman of the steering committee of the WHO task force on immunological control of fertility and a member of the biological subcommittee of the British University Grants Committee. In 1983 he was elected a Fellow of The Royal Society.

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