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**BOOK REVIEWS**


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**Annual Review of Immunology** by William E. Paul (Published by Annual Reviews Inc, 4139 EL Camino Way, Palo Alto, California-94306, USA.) Pages 666, Price US \$ 27.00 Elsewhere \$ 30.00.

The Annual Review of Immunology is the 25th in the series of yearly reviews. In this first number of the series there are twenty two reviews. The under mentioned topics are discussed. The volume starts with a very interesting account of the first 21 years of work and his experiences by E. A. Kabat. This is followed by a review on immunological tolerance by G. V. Nossal in which he gives a short historical perspective of the development of our knowledge of the topic followed by an account of the recent research in immunological tolerance with hetero and auto antigens. L. A. Sherman *et al's* review is focussed on the recognition of viral determinants particularly as they are expressed on infected cells, by both B and T cells systems. The current information on the structural basis of antibody function is reviewed by D. R. Davies and H. Metzger. There are two reviews on the major histocompatibility complex, one dealing on its genetic by Klein, J. *et al* and the other on the MHC genes of the mouse by L. Hood *et al*. Lafferty, K. J. *et al* review the immunobiology of tissue transplantation, touching first on recent developments concerning the mechanism of tissue rejection and then explore in depth the idea that antigen recognition alone is not sufficient for lymphocyte activation and conclude that the "passenger leukocytes" carried in the donor tissue provide the major immunogenic stimulus for the host. Smith, H. R and Steinberg, A. D. review the mechanisms by which autoimmune diseases may occur and discuss in greater depth autoimmune thyroiditis and systemic lupus erythematosus. Singer, A. and Hodes, R. J. discuss the mechanisms of T-cell, B-cell interactions with the focus on their genetic regulation. Complement ligand-receptor interactions mediating biological responses are considered by Fearon, D. T. and Wong, W. W. Nabholz, M. and Mac Donald, H. R. in their review of cytolytic T lymphocytes first trace their history in the

context of developments in immunology as a whole and subsequently identify some of the questions that arise from the work with CTL clones. Howard, M. and Paul, W. E. review the biochemistry and mode of action of lymphokines that act on B cells. The mediators of inflammation are discussed by Larsen, G. L. and Henson P. M. The role of CMI responses in resistance to Malaria with special reference to oxidant stress is dealt with by Allison, A. C. and Eugin, E. M. Wall, R. and Kuchl, M. Summarise the recent progress towards understanding the molecular mechanisms in immunoglobulin gene expression and regulation in the context of developments in other eukaryotic genes. Webb, D. R. *et al's* review the biochemistry of antigen specific T cell factors. Green, D. R. *et al's* review the immune system as being in a complex homeostasis, in which recognition of self (rather than nonself) is a key feature and stress the outlook of their laboratory on the theme Goodman, J. W. and Sercarz, E. E. discuss the current information describing the complexity of the structures involved in T cell activation. Honjo, T. reviews the organisational and structural features of the cloned immunoglobulin genes and on the implication derived from their studies. Rajewsky, K. and Takemori, T. take as their theme the idiotypic repertoire of the immune system, its genetic basis and its selection in ontogeny. Herzenberly, L. A. *et al's* paper deals with epitope-specific regulation. In the last review, Fathman, C. G. Frelinger, J. G. present a brief overview of how T cell clones were derived, describe the as yet unsuccessful attempts to isolate T cell receptors and survey the advances made in cellular immunology by the use of T cell clones.

This volume is thus an inevitable reference book for research workers in the immunological sciences.

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