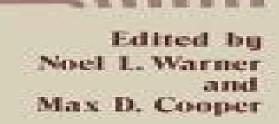
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# Contemporary Topics in Immunobiology Volume 8



# **Contemporary Topics In Immunobiology**

F. P. Inman, W. J. Mandy

#### **Contemporary Topics In Immunobiology:**

Contemporary Topics in Immunobiology Edwin Cooper, 2012-12-06 This fourth volume of Contemporary Topics In Immunobiology treats in vertebrate immunity Specifically the results represent several approaches to humoral and cellular immunity It is evident that invertebrates do have function ing immune systems For example cellular immunity is characterized by both specificity and memory but it is still problematical whether vertebrate immune capacity evolved directly from invertebrates Most of the manuscripts were formally presented at the International Symposium on Invertebrate Pathology University of Minnesota August 1972 held in connection with the 25th anniversary celebration of the American Institute of Biological Sciences I wish to express my appreciation to the contributors and to beg their indulgence in what may have been overzealous editing This was done though in the interest of clarity and to seek uniformity Because of earlier problems time limitations did not permit consultations between submission of manuscripts and final editing For assistance I extend a special note of gratitude to Mrs Lois Gehringer who unselfishly retyped many of the manuscripts The preparation of this volume was aided partially by NSF Grant GB17767 two grants from The California Institute for Cancer Research and a grant from The Brown Hazen Corporation E L C Contents Introduction General Comments and a Note on Taxonomy

**Contemporary Topics in Immunobiology** M. Hanna, 2012-12-06 Investigators teachers and practitioners in the biomedical sciences are keenly aware of the current crisis in scientific communications With well over a thousand biomedical journals producing new issues each month and with approximately five hundred new technical books in biomedicine being 1 published each year not to mention the proliferation of information ex change meetings it is all too clear that we are in danger of being inundated by a flood of tables figures and hypotheses. The problem is particularly acute in immunology as the rate of information production is increasing geometrically and immunological approaches have been extended into other biological and medical fields to further diversify the research over a vast literature Abstracting and information retrieval services do much to improve the investigator s lot but do not offer solutions for one particularly distressing aspect of the crisis In the midst of our informational overabundance one often finds that interrelationships between an investigator s collective findings are becoming blurred or that the relation of his total work to the field are not clear Although review articles are indispensable in fixing the status of a given problem they do not provide the detailed attention to a single author s work that is needed Contemporary Topics in Immunobiology Noel L. Warner, 2012-12-06 Although the field of contemporary immunobiology continues to diversify and encompass an increasing array of biomedical disciplines and topics there are frequently several themes that will receive special emphasis and prominence at any given time It is our hope that this series will reflect these themes and pro vide an appropriate venue for exposure of such topics at a useful time Although this particular volume is not designated as one of the special topics volumes in this series the selected topics have in essence come together to con sider aspects of two major areas of considerable research interest in immuno biology today These

concern new approaches and insights into an understanding of the tumor host relationship and aspects of cellular interactions and networks as approached by various different lines of investigation The province of tumor immunology remains one of the most challenging areas to immunologists as it of necessity involves not only developing an under standing of the neoplastic process itself and how the immune system responds but of eventually using this information in a diagnostic or therapeutic manner Contemporary Topics in Immunobiology Michael G. Hanna, 1972 Contemporary Topics in Molecular Immunology Gordon Ada, 2012-12-06 A series of volumes devoted to molecular immunology will contain for the most part articles which attempt to explain immunological phenomena in terms of the behavior and properties of particular molecules Many of the articles in this volume do this At the same time there are many instances and this is particularly so in the case of immunology where phenomena must first be described and interpreted in terms of the properties and behavior of cells Most of us would hope that in due course a fuller understanding will be forthcoming This volume starts off with such a contribution Perhaps the most fascinat ing problem in immunology is how diversity is generated There are two broad proposals 1 that complete information exists ab initio the germ line theory and 2 that there is initially a limited amount of information and diversity is generated by somatic mutation. The issue is unresolved but Cunningham has taken many of the data which have previously been used to support the germ line theory and shows that the interpretations are not always clear cut and can frequently be used to support another possibility that new specificities may arise after stimulation of appropriate cells by antigens And he has produced experimental evidence to support this notion On the other hand there can be little doubt that to a considerable degree the specificity of the immune response is determined by the selection by antigen of cells with receptors of appropriate specificity This is essentially a surface phenomenon Contemporary Topics in Molecular Immunology F. Inman, 2013-11-11 recipients and acceptance of allografts can be made The authors have the experi ence and ability to bridge the entire field of transplantation and their article encompasses both clinical and immunochemical data in this area Their data show clearly that matches for the DR antigens are more important than those at the ABC loci in determination of graft survival Additional relevant factors in cluding autoimmunity and other B cell antigens are discussed and correlated with graft survival The authors also present pathology data concerning the distribution of HLA DR antigens in various tissues These data indicate a fruitful area for future investigations on the chemical aspects of the various antigens encoded within the human MHC Do changes in the structure of lymphocyte surface glycoproteins especially changes in their carbohydrate portions occur during normal lymphoid differen tiation Information about this question is limited and pertinent data are avail able for only a few proteins Three of the proteins are major glycoprotein con stituents of rodent thymocyte membranes the Thy antigen a glycosylated leukocyte sialoglycoprotein called W3 13 and a high molecular weight glycopro tein known as the leukocyte common antigen In his contribution Pink thor oughly characterizes these glycoproteins and discusses the evidence that the structures change when a thymocyte differentiates into a mature peripheral T cell A

comparison is drawn between lymphocyte glycoprotein changes and those that occur during red blood cell differentiation The reader will find Pink s discourse informative and provocative Mast cells basophils and related tumor lines bind IgE with very Contemporary Topics in Molecular Immunology F. P. Inman, W. J. Mandy, 2013-03-14 Included in this volume is a broad range of topics Immunology is such a diverse field that many of the subspecialties overlap and one finds it convenient and necessary to integrate information from several of them We try to focus on the molecular aspects of immunology as much as is reasonable but some con tributions consist of ablend of molecular and cellular immunology and even immunopathology This is as it should be since information at the molecular level often provides an explanation of phenomena observed at other levels Myelin basic protein holds the interest of immunologists because it is implicated in the induction of the autoimmune disease called experimental allergie encephalomyelitis EAE Although much biochemical and immunological information about this protein has been uncovered it is not understood how such an inaccessible self antigen can serve as the focal point in the central ner your system for myelin basic protein specific EAE inducing T cells Day dis cusses the problem by first reviewing the sequences of the proteins from several species and the antigenicity of the proteins and peptides derived from them The reader is then led into a thorough discussion of the immunological relation ships that do and do not influence development of the encephalitis From this discussion the author promulgates the bystander model as the best overall mechanism to explain why different fragments of the highly conserved protein are needed by various species to give rise to the same type of localized central nervous system disease Contemporary topics in immunobiology. 7. T cells Osias Stutman,1977 Contemporary Topics in Immunobiology, Vol. 7:T Cells Osis Stutman, 2012-12-06 And even I can remember A day when historians left blanks in their writings I mean for things they didn t know Ezra Pound Canto XIII The prefaces to the previous volumes of this series have all expressed in various ways the actual motivation behind these collective efforts There was agreement in most instances that we are facing some kind of publication explosion and that the present type of compact and personalized reviews may be of help from both a conceptual and a purely informational standpoint The aims of the series were and still are to focus attention on the rapidly changing fields within the realm of immunology and to present in each chapter the summation of results generated by an investigator or group of Investigators either as an analysis of their own work or as a correlation of such work with the general field in question The present volume does not differ in its construction from its predecessors although it does concentrate on a single target the T lymphocyte and its biology The selection of subjects as well as contributors has been the sole responsi bility of this editor however the actual format and length of the individual contributions was left to the discretion and inspiration of the different authors Even the styles ranging from the concise statement to the meticulously detailed review attest to the freedom of format Immune Complexes and Human Cancer Fernando Salinas, 1985-07-01 Immune Complexes and Human Cancer the fifteenth volume of Contem porary Topics in Immunobiology is a compilation of information derived from recent studies on the role of circulating

immune complexes CIC in the patho genic manifestations of a variety of human cancers Technical improvements in the detection of CIC in body fluids have resulted in data that indicate that CIC do occur in different types of cancer In addition tumor associated antigens and antibodies have been detected in immune complexes of cancer patients sera Until recently the exact role and clinical relevance of immune complexes have been the subject of debate partially because of the problems encountered in measuring immune complexes But these problems are being confronted as more accurate measurement protocols are developed Technical refinements along with strict protocols have provided evidence of heterogeneity in CIC a factor that makes accurate detection of immune complexes in cancer patients difficult Recent insights indicate that the measurement of immune complexes in cancer patients may be clinically useful not only as a tumor marker but also in regard to the deranged immune response of tumor bearing hosts and other disorders such as nephrotic syndrome immune anemias and clotting dysfunction Contemporary Topics in Molecular Immunology R. A. Reisfeld, 2013-12-01 New information is developing so rapidly in the entire field of immunology that one is unable to remain abreast of all advancing fronts In many cases consider able information has accumulated as the result of the efforts of many investigators but the conclusions from the various laboratories have not been summarized recently in a comprehensible manner One such situation has to do with work on IgD An up to date report on this immunoglobulin was included in Volume 10f this series but since that time there has been considerable progress in the deter mination of its structure and function In the present volume Leslie and Martin have reviewed the accomplishments of recent years and the problems remaining to be solved New information regarding the concentration of IgD in body fluids in normal and disease states is presented Studies of the ontogeny of surface IgD in animals are described and the findings imply that it may be important in the primary immune response The role of IgD on lymphocyte surfaces is thoroughly discussed especially in terms of stimulating or suppressive combinations of signals delivered to the lymphocyte by agents which bind or alter the surface rt ceptors The authors conclude by proposing a model for plasma cell differentiation which accounts fo the existence of triple Ig bearing cells many IgM IgD bearing cells and the low percentage of cells bearing a single isotype Sometimes the serum of an individual contains abnormally large amounts of two distinct homogeneous populations of immunoglobulins Contemporary Topics in Immunobiology, V.8 Noel Lawrence Warner, Max D. Cooper, 1978 **Contemporary Topics in Immunobiology** A. Davies, 2012-12-06 This second volume of Contemporary Topics in Immunobiology considers many aspects of thymus dependency in order to exemplify the role of the thy mus in different species and different immunological responses It is not in tended to be a compendium of the responses which have been shown to be thymus dependent but rather to illustrate for the reader the criteria he should apply in thinking about the significance of the thymus in immune responses We are grateful to the editors and publishers of the Annals of the New York Academy of Science the Australian Journal of Experimental Biology and Medical Science Clinical and Experimental Immunology Immunology the Journal of Experimental Medicine the Journal of Immunology Laboratory

Investigation Nature and the Proceedings of the Royal Society of Medicine and to Springer Verlag Berlin for permission to reproduce illustrations Specific references are given in the text We would also like to thank the contributors for their time and energy and willingness to submit to the editorial red pencils The exercise of these censori ous instruments meant that the manuscripts had to be reorganized and retyped Mrs J Pettis Mrs A Inglefield and Miss M Butt all helped and we are most grateful to them A J S D R L e **Contemporary Topics in Immunobiology** Fernando Salinas,1985-07-01

Contemporary Topics in Immunobiology Max Cooper, 2012-12-06 Contemporary immunobiology is an ever diversifying field that embraces many aspects of cellular and humoral immune responsiveness. This includes the phylogeny ontogeny induction regulation expression and differentiation of the immune cell series as well as the relationship of these to the pathogenesis of many disease processes It is clearly beyond the limitations of each volume in this series to comprehensively cover progress in each of these fields Three general areas of contemporary investigations are discussed in the current issue cellular events of B cell differentiation including antigen recognition and respon siveness of B lymphocytes regulation of the immune response by T cells and the roles of this regulatory system in allotype suppression and in autoimm unity and the genetic control of immune responses and its possible relation to disease pathogenesis Analysis of responsiveness of B lymphocytes has been greatly aided by the availability of athymic nude mice The immunological responsiveness of these mice to a wide range of stimuli has been reviewed and analyzed by H H Wortis This article concludes with the provocative thesis that in the future nudes will supply new rather than confirmatory data especially regarding the develop ment of neoplasia In contrast to the studies on the congenitally athymic mice G F Contemporary Topics in Immunobiology William O. Weigle, 1976 Contemporary Topics in Immunobiology, V.5 William O. Weigle, 1976 **Contemporary Topics in** Molecular Immunology, 1972 Current Topics in Microbiology and Immunology W. Arber, W. Braun, R. Haas, W. Henle, P. H. Hofschneider, N. K. Jerne, P. Koldovský, H. Koprowski, O. Maaløe, R. Rott, H. G. Schweiger, M. Sela, L. Syru?ek, P. K. Vogt, E. Wecker, 2012-12-06 Contemporary Topics in Immunobiology Noel L. Warner, 1984

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