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Volume 406

MECHANISMS OF LYMPHOCYTE ACTIVATION AND IMMUNE REGULATION VI

**Cell Cycle and Programmed Cell Death
in the Immune System**

Edited by Sudhir Gupta
and J. John Cohen

Mechanisms Of Lymphocyte Activation And Immune Regulation

Sudhir Gupta, Alan Sher, Rafi Ahmed



Mechanisms Of Lymphocyte Activation And Immune Regulation:

Mechanisms of Lymphocyte Activation and Immune Regulation X Sudhir Gupta, William E. Paul, Ralph Steinman, 2007-03-20 This volume is edited by Dr Sudhir Gupta internationally recognized expert in Immunology Professor of Medicine Pathology Microbiology and Molecular Genetics Topics include toll receptors dendritic cells NK cells and complement receptors

Mechanisms of Lymphocyte Activation and Immune Regulation Sudhir Gupta, William E. Paul, Anthony Fauci, 2013-11-11 During the past 5 years rapid progress has been made in the understanding of biochemical pathways for signal transduction in lymphocyte activation Gene cloning technology has been instrumental in defining and making available in pure form of a number of growth and differentiation factors in the characterization of their receptors and in the delineation of genes for the T cell receptor This book is divided into 6 sections Section 1 deals with the molecular structure of the T cell receptor Section 2 discusses the role of the T cell receptor membrane ion channels and biochemical pathways of signal transduction in T cell activation The molecular structures and biological and immunological effects of interleukin 1 interleukin 2 and interleukin 3 are presented in Section 3 This section also details the structure of interleukin 2 receptor and its use as a target for therapy for certain leukemias Section 4 includes the biochemical events which occur following the delivery of the signal for B cell activation proliferation and differentiation by antigen growth differentiation factors The molecular structure of B cell stimulating factors is also discussed The role of oncogene expression in cellular activation and differentiation is included in Section 5 The cellular and molecular basis of natural killing and the molecular basis of cyclosporin A mediated immunosuppression are discussed in detail in Section 6 We hope this book will serve as a reference work on basic mechanisms of lymphocyte activation proliferation and differentiation for immunologists and molecular biologists

Mechanisms of Lymphocyte Activation and Immune Regulation VII Sudhir Gupta, Alan Sher, Rafi Ahmed, 2012-12-06 Proceedings of the Seventh International Conference held in New Port Beach California February 6 8 1998

Mechanisms of Lymphocyte Activation and Immune Regulation II S. Gupta, 2013-06-29 The activation of lymphocytes by physiologic ligands has become a central area of study for immunologists Furthermore lymphocytes offer many advantages for the study of general aspects of receptor mediated cellular activation For these reasons research on the cellular and molecular aspects of the activation of lymphocytes by antigens antigen analogues lymphokines and other growth factors has expanded enormously in the last several years A series of conferences The International Conferences on Lymphocyte Activation has been initiated to meet the growing need for a forum for the discussion of the topics that are included within the area of lymphocyte activation This volume represents the proceedings of the Second International Conference on Lymphocyte Activation and Immune Regulation held on February 18 20 1988 at Newport Beach California The proceedings comprise four major sections The first deals with the T cell receptors and T cell activation It includes a model for the T cell receptor interaction with a complex of MHC plus antigen structure of y c i T cell

receptor and their distinct isotypic forms the role of zeta chain in the expression and structure of T cell receptors and its role in transmembrane signalling The use of somatic cell mutants in the study of signal transduction function of the T cell antigen receptors and the early and late steps of signal transduction via a T cell antigen receptors are discussed

Mechanisms of Lymphocyte Activation and Immune Regulation, **Mechanisms of Lymphocyte Activation and Immune Regulation**

XI Sudhir Gupta, Frederick W. Alt, Max D. Cooper, Fritz Melchers, Klaus Rajewsky, 2007-05-21 In recent years major developments have been made in understanding various genetic and epigenetic regulatory processes that are critical for the generation of B cell repertoires These include the role of chromatin regulation and nuclear organization in understating the IgH gene regulation A role and mechanism of DNA repair proteins in somatic hypermutation has been elucidated Genetic mutation studies have been instrumental in providing insight into some of the mechanisms involved in targeting CSR to various switch DNA regions located upstream of C region genes especially a role of AID motifs transcription and R loops Recent studies support a dominant role of receptor editing in central B cell tolerance and signaling pathways that regulate receptor editing in self reactive and non self reactive immature B cells These were some of the topics of discussion at the 11th International Conference on B cell Biology These proceedings highlight recent developments in lymphocyte development Ig gene rearrangements and somatic hypermutation chromatin structure modification B lymphocyte signaling and fate receptor editing and autoimmunity

Mechanisms of Lymphocyte Activation and Immune Regulation VI Sudhir Gupta, J. John Cohen, 2013-06-29 Since programmed cell death was first described in insects in 1964 and apoptosis was described in 1972 rapid progress has been made in understanding the basic mechanisms and genes regulating programmed cell death and apoptosis In addition defects in various genes regulating programmed cell death have been delineated in several experimental models of human diseases This volume surveys various aspects of these rapidly developing areas of research in programmed cell death apoptosis This volume should be of interest to basic immunologists and molecular biologists The volume begins with a historical perspective of cell death The remainder of the volume is divided into four different parts Part I deals with the signaling pathways in apoptosis including cell cycle control of apoptosis role of ceramide in apoptosis role of antibody signaling and biochemical regulation of apoptosis The mechanisms for recognition of apoptotic lymphocytes by macrophages are also reviewed Part II examines the role of various genes that regulate apoptosis including the role of Fas FasL and other TNF family members in apoptosis and homeostatic regulation of immune response Recently described splice variants and their influence on apoptosis are also reviewed and the role of the members of the Bcl 2 family in apoptosis is discussed in detail Part III reviews various aspects of apoptosis in B lymphocytes including mechanisms that regulate apoptosis survival of B lymphocytes and the regulation of Fas mediated apoptosis in B lymphocytes

Mechanisms of Lymphocyte Activation and Immune Regulation IV Sudhir Gupta, Thomas Waldmann, 2012-12-06 In recent years rapid progress has been made in the areas of T cell and B cell biology cell cell and cell matrix stroma

interactions The use of isolated subunits of the T cell receptor invariant chains has been instrumental in defining their role in signal transduction and tyrosine phosphorylation A role of src family phosphotyrosine kinases in T cell activation has been demonstrated and several phosphotyrosine kinase substrates have been identified and their functions characterized Homologous recombinant techniques have led to the development of murine strains that lack CD4 or CD8 expression These models are likely to be instrumental in studying the role of T cell subsets in autoimmune disorders tissue transplant rejection and tumor rejection A role of major histocompatibility complex I in the development of T cell subsets and NK cells has been defined Recent data suggest a role of interaction between plasma membrane molecules of activated T helper cells and B cells B cells primed with plasma membrane of activated T helper cells and cytokines and interaction between bone marrow stromal cells and B cell progenitors and precursors in the B cell development proliferation and differentiation The structure and functions of adhesion molecules especially with regard to signal transduction and homing events are better defined

Mechanisms of Lymphocyte Activation and Immune Regulation III Sudhir Gupta,William E. Paul,Max D. Cooper,Ellen V. Rothenberg,2012-12-06 Recent advances in the understanding of the major events that shape the immune recognition system have been remarkable The analysis of immunoglobulin Ig gene organization and Ig repertoire diversification in lower vertebrates has provided new insight into this process in mammals Similarly the understanding of the early development of lymphocytes and of the acquisition of immunological tolerance has been aided by elegant studies in quail chicken chimeras using the power of the distinctive markers of the constitutive cells of these birds Great strides have been made in understanding the role played by major histocompatibility complex MHC molecules in antigen presentation and in repertoire selection within the thymus The use of transgenic mice expressing specific T cell receptor TCR genes has elucidated the process of both positive and negative selection In parallel there has been considerable progress in our understanding of tolerance based in part on the use of markers for the V β genes of T cell receptors and in part on the analysis of the behavior of long term T cell lines This has led to the realization that both clonal deletion and clonal anergy may play critical roles in the maintenance of unresponsiveness to self antigen Molecular analysis of the requirements for expression of membrane immunoglobulin molecules has revealed the existence of a complex that appears to be of critical importance in mediating signalling through Ig receptors In addition major insights have been obtained into the regulation of expression of genes of immunologic interest

Mechanisms of Lymphocyte Activation and Immune Regulation X,2005

Mechanisms of Lymphocyte Activation and Immune Regulation X Sudhir Gupta,William E. Paul,Ralph Steinman,2005-04-28 This volume is edited by Dr Sudhir Gupta internationally recognized expert in Immunology Professor of Medicine Pathology Microbiology and Molecular Genetics Topics include toll receptors dendritic cells NK cells and complement receptors

Mechanisms of Lymphocyte Activation and Immune Regulation V Sudhir Gupta,William E. Paul,Anthony DeFranco,Roger Perlmutter,2013-06-29 Signaling through antigen receptor initiates a complex series of events resulting in the activation of

genes that regulate the development proliferation and differentiation of lymphocytes During the past few years rapid progress has been made in understanding the molecular basis of signaling pathways mediated by antigen and cytokine receptors These pathways involve protein tyrosine kinases which are coupled to downstream regulatory molecules including small guanine nucleotide binding proteins e g p21 OS serine threonine kinases e g members of the ERK family and a large group of transcription factors More recently there have been breakthroughs in elucidating the genetic defects underlying three X linked primary immunodeficiency diseases in humans This volume surveys aspects of these rapidly developing areas of research The book is divided into 5 different sections Section I deals with signaling pathways in B lymphocytes It includes a contemporary assessment of B cell antigen receptor structures and discussion of the role of Ig a lg B polypeptides in linking the antigen receptor to intracellular signal transduction pathways The role of accessory molecules in the regulation of signaling by the B cell antigen receptor is also considered Section II adopts a similar approach to the analysis of the antigen receptor on T lymphocytes The importance of specialized signaling motifs in the CD3 polypeptides mechanisms whereby these motifs may interact with the lymphocyte specific protein tyrosine kinases and the downstream consequences of these interactions are reviewed In addition the role of antigen induced apoptosis in the generation of immunological tolerance is discussed

Mechanisms of Lymphocyte Activation and Immune Regulation VIII Sudhir Gupta, 2012-12-06 Advances in biochemistry cell biology genome wide mutagenesis coupled with molecular technology including gene microarray and transgenic and knock out animals have been instrumental in understanding the cellular processes and molecular pathways of self tolerance and autoimmune diseases The molecular definition of these pathways and processes has led to novel treatments for certain auto immune diseases that are based on the pathogenesis of diseases rather than on broad spectrum immunosuppression This book reviews many of these current developments and proposes future novel approaches for understanding the pathogenesis of auto immune diseases and designing novel therapy This book covers three major areas of auto immunity the basic mechanisms of immunological tolerance pathogenesis of auto immune diseases and some novel therapies This book should be useful for immunologists molecular biologists rheumatologists and clinical scientists

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Mechanisms of Lymphocyte Activation and Immune Regulation VI Sudhir Gupta,J. John Cohen,1996-10-31 Since programmed cell death was first described in insects in 1964 and apoptosis was described in 1972 rapid progress has been made in understanding the basic mechanisms and genes regulating programmed cell death and apoptosis In addition defects in various genes regulating programmed cell death have been delineated in several experimental models of human diseases This volume surveys various aspects of these rapidly developing areas of research in programmed cell death apoptosis This volume should be of interest to basic immunologists and molecular biologists The volume begins with a historical perspective of cell death The remainder of the volume is divided into four different parts Part I deals with the signaling pathways in apoptosis including cell cycle control of apoptosis role of ceramide in apoptosis role of antibody signaling and biochemical regulation of apoptosis The mechanisms for recognition of apoptotic lymphocytes by macrophages are also reviewed Part II examines the role of various genes that regulate apoptosis including the role of Fas FasL and other TNF family members in apoptosis and homeostatic regulation of immune response Recently described splice variants and their influence on apoptosis are also reviewed and the role of the members of the Bcl 2 family in apoptosis is discussed in detail Part III reviews various aspects of apoptosis in B lymphocytes including mechanisms that regulate apoptosis survival of B lymphocytes and the regulation of Fas mediated apoptosis in B lymphocytes

Spezielle neurologische Therapie Johannes Jörg,Peter Vieregge,1989 **Mechanisms of Lymphocyte Activation and Immune Regulation 4** ,1992 **Mechanisms of Lymphocyte Activation and Immune Regulation 7**

Alan Sher,Sudhir Gupta,Rafi Ahmed,1998 Mechanisms of Lymphocyte Activation and Immune Regulation V Sudhir Gupta,William E. Paul,Anthony DeFranco,Roger Perlmutter,1994-10-31 Signaling through antigen receptor initiates a complex series of events resulting in the activation of genes that regulate the development proliferation and differentiation of lymphocytes During the past few years rapid progress has been made in understanding the molecular basis of signaling pathways mediated by antigen and cytokine receptors These pathways involve protein tyrosine kinases which are coupled to downstream regulatory molecules including small guanine nucleotide binding proteins e g p21 OS serine threonine kinases e g members of the ERK family and a large group of transcription factors More recently there have been breakthroughs in elucidating the genetic defects underlying three X linked primary immunodeficiency diseases in humans This volume surveys aspects of these rapidly developing areas of research The book is divided into 5 different sections Section I deals with signaling pathways in B lymphocytes It includes a contemporary assessment of B cell antigen receptor structures and

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