



# Lymphocyte Activation

**DP Hallahan**



## **Lymphocyte Activation:**

**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  $\gamma$  c  $\delta$  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* 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 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 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 **Biomedical Index to PHS-supported Research** ,1991

**Biomedical Index to PHS-supported Research: pt. A. Subject access A-H** ,1992 Cumulated Index Medicus ,1977 **Cancer Immunology and Immunotherapy** Glenn Dranoff,2011-04-11 The interplay between tumors and their immunologic microenvironment is complex difficult to decipher but its understanding is of seminal importance for the development of novel prognostic markers and therapeutic strategies The present review discusses tumor immune interactions in several human cancers that illustrate various aspects of this complexity and proposes an integrated scheme of the impact of local immune reactions on clinical outcome Current active immunotherapy trials have shown durable tumor regressions in a fraction of patients However clinical efficacy of current vaccines is limited possibly because tumors skew the immune system by means of myeloid derived suppressor cells inflammatory type 2 T cells and regulatory T cells Tregs all of which prevent the generation of effector cells To improve the clinical efficacy of cancer vaccines in patients with metastatic disease we need to design novel and improved strategies that can boost adaptive immunity to cancer help overcome Tregs and allow the breakdown of the immunosuppressive tumor microenvironment Immunodermatology Bijan Safai,Robert A. Good,2013-11-11 By 1940 immunological mechanisms had been proved to have fundamental influences on a great number and variety of skin reactions and skin diseases had brought to light a great number of fundamental immunological mechanisms that were basic to a wide range of different diseases dermatological and nondermatological The preeminence of dermatological research in the advancement of immunological knowledge should not astonish anyone For the skin is not only the most easily accessible tissue for producing and studying immunological reactions it is also the great organ of protection that meets the first onslaughts of inimical environmental forces and agents potential enemies both living and dead And protection is in essence what immunology is all about To get an idea of the long established role that testing the skin and the study of its many reactions has played in advancing general immunology one need recall only smallpox vaccination tuberculin testing testing with fungal extracts skin testing in hay fever asthma and serum sickness skin tests with toxins and toxoids the

patch test the passive transfer of skin adhering antibodies reagents skin sensitization by simple chemicals and similar dermatological procedures that have exerted their influence on medical and scientific disciplines far beyond dermatology

**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 *Thomas' Hematopoietic Cell Transplantation* Karl G. Blume, Stephen J. Forman, Frederick R. Appelbaum, 2008-04-15 NEW the leading book in its field now fully updated and revised Click here to access two FREE sample chapters An Essential resource for all hematologists oncologists pathologists pediatricians immunologists and all others interested in this dynamic area of medicine Why you should buy this book Extensive coverage of subject area from the scientific basis to the view of the future Includes all experimental research and clinical application Combined the knowledge and expertise of over 170 international specialists Clear structure and layout Over 500 illustrations including a colour plate section Why buy the NEW edition New and fully revised to reflect the latest developments in this fast moving field 10 new chapters covering some of the latest developments see below for the complete tables of content **Basic and Clinical Immunology E-Book** Mark Peakman, Diego Vergani, 2009-04-24 Within this one volume both basic science and clinical immunology are demystified for the medical and other health sciences student The basic immunological processes are described first with a level of detail restricted to what is appropriate for medical and similar curricula In the second part of the book immunological mechanisms behind major diseases of the various body systems are explained Throughout the text clinical details are highlighted and more in depth material is differentiated from the main text Covers both basic science and clinical immunology in one volume Specifically aimed at medical students and appropriate for integrated system based curricula Main text supported by in depth key point and clinical boxes Now full colour throughout Specialised material removed and replaced with clearer introductory explanations Clearer illustrations thanks to rewritten captions

Mononuclear Leukocytes—Advances in Research and Application: 2012 Edition, 2012-12-26 Mononuclear Leukocytes Advances in Research and Application 2012 Edition is a ScholarlyEditions eBook that delivers timely authoritative and comprehensive information about Mononuclear Leukocytes The editors have built Mononuclear Leukocytes Advances in Research and Application 2012 Edition on the vast information databases of ScholarlyNews You can expect the information about Mononuclear Leukocytes in this eBook to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Mononuclear Leukocytes Advances in Research and Application 2012 Edition has been produced by the world's leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More

information is available at <http://www.ScholarlyEditions.com>      *The Pharmacology of Lymphocytes* Michael A. Bray, John Morley, 2012-12-06 Immunopharmacology why not pharmacimmunology Professor H O Schild University College London 1962 An intact immune response is essential for survival as is evidenced by the various innate immune deficiency syndromes and by the emergence of the acquired immune deficiency syndrome AIDS as a pandemic during the last decade Substances which stimulate the immune response might contribute to the therapy of AIDS and its precursor AIDS related syndrome as well as of other clinical conditions in which immune responses can be diminished such as carcinoma and infections In other circumstances an intact or heightened immune response may pose clinical problems hence there is need to suppress or diminish components of the immune response For instance it is necessary to impair cellular immunity in order to ensure lasting acceptance of heterografts and it is already established that agents effective in transplantation are therapeutically effective in an range of autoimmune diseases More recently experimental studies have indicated that aberrant manifestations of humoral immunity as in allergies may also be amenable to pharmacological intervention      Exploring Immunology Gordon MacPherson, Jon Austyn, 2013-03-01 This concise introductory textbook uses carefully chosen examples from clinical and experimental observations to provide an insight into the principles underlying the immune system As a result it encourages readers to ask critical questions in order to further advance our understanding of this unique organ Both authors are experienced lecturers and highly regarded researchers The book is professionally illustrated in four color throughout with beautiful artwork which by itself distinguish the title from any comparable title Website [http://www.wiley-vch.de/home/immunology/target\\_blank](http://www.wiley-vch.de/home/immunology/target_blank)      Research Awards Index ,1989      Index Medicus ,2001      National Library of Medicine Current Catalog National Library of Medicine (U.S.),1987      **Asthma and Rhinitis** William W. Busse, Stephen T. Holgate, 2008-04-30 The second edition of this highly acclaimed text has been extensively revised and greatly expanded to reflect the considerable advances made in our understanding of the mechanisms of asthma and rhinitis Containing the contributions of 242 experts of international standing presented in 133 chapters Asthma and Rhinitis provides an up to date authoritative reference for both the clinician and scientist The global approach given in this book mirrors the universal approach to the understanding of allergic disease The editors have carried out a thorough and radical revision of the content by adding 6 new sections and 44 new chapters Most of this expansion is due to greatly increased coverage of the clinical aspects of asthma with new sections on childhood asthma and on drug treatment each drug class has its own chapter Also the expansion of research into the genetic basis of asthma has necessitated a whole new section on Genetics comprising some six chapters There are also new chapters on adult onset asthma and the relationship of asthma to sinusitis A new section on Asthma in Special Circumstances includes chapters on asthma in pregnancy asthma and surgery asthma in the elderly and asthma in the context of critical care In bringing the Second Edition fully up to date the book has inevitably increased in size and is now presented in two volumes The second edition of Asthma and Rhinitis will continue the tradition

of its predecessor of providing an up to the minute reference for all those involved in the management of and research into asthma and rhinitis

**A Historical Perspective on Evidence-Based Immunology** Edward J. Moticka, 2015-11-25 A Historical Perspective on Evidence Based Immunology focuses on the results of hypothesis driven controlled scientific experiments that have led to the current understanding of immunological principles The text helps beginning students in biomedical disciplines understand the basis of immunologic knowledge while also helping more advanced students gain further insights The book serves as a crucial reference for researchers studying the evolution of ideas and scientific methods including fundamental insights on immunologic tolerance interactions of lymphocytes with antigen TCR and BCR the generation of diversity and mechanism of tolerance of T cells and B cells the first cytokines the concept of autoimmunity the identification of NK cells as a unique cell type the structure of antibody molecules and identification of Fab and Fc regions and dendritic cells Provides a complete review of the hypothesis driven controlled scientific experiments that have led to our current understanding of immunological principles Explains the types of experiments that were performed and how the interpretation of the experiments altered the understanding of immunology Presents concepts such as the division of lymphocytes into functionally different populations in their historical context Includes fundamental insights on immunologic tolerance interactions of lymphocytes with antigen TCR and BCR and the generation of diversity and mechanism of tolerance of T and B cells

*Inhibitory Receptors and Pathways of Lymphocytes* Alexandre M. Carmo, Paul E. Love, Aaron James Marshall, 2020-09-08 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office [frontiersin.org](mailto:frontiersin.org) about contact

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