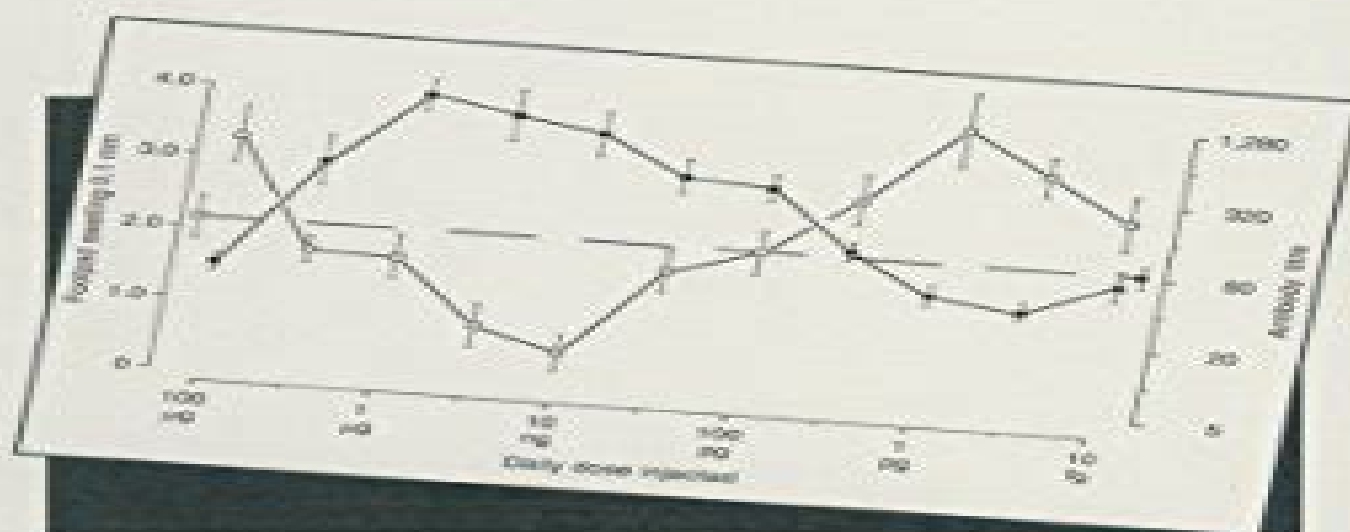


# Regulation and Functional Significance of T-Cell Subsets

Editor: R.L. Coffman



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# Regulation And Functional Significance Of Tcell Subsets

**Giang Tran, Bruce Milne Hall, Lesley  
Ann Smyth, Nirupama Darshan Verma**



## **Regulation And Functional Significance Of Tcell Subsets:**

Regulation and Functional Significance of T-Cell Subsets R. L. Coffman,1992      *Regulation and Functional Significance of T-Cell Subsets* ,1992      **Non-Lymphoid Functions of Regulatory T cells in Health and Disease** Dipayan Rudra,Paula D. Bos,Akihiko Yoshimura,2023-03-01      Characterization, Functions, and Roles of Antigen-Specific Regulatory T Cells in Health and Disease Giang Tran,Bruce Milne Hall,Lesley Ann Smyth,Nirupama Darshan Verma,2022-11-09      *Signaling Mechanisms Regulating T Cell Diversity and Function* Jonathan Soboloff,Dietmar J. Kappes,2017-03-27 T cells play a vital role mediating adaptive immunity a specific acquired resistance to an infectious agent produced by the introduction of an antigen There are a variety of T cell types with different functions They are called T cells because they are derived from the thymus gland This volume discusses how T cells are regulated through the operation of signaling mechanisms Topics covered include positive and negative selection early events in T cell receptor engagement and various T cell subsets      Role of Metabolism in Regulating Immune Cell Fate Decisions Anna Ohradanova-Repic,Marianne Boes,Hannes Stockinger,2020-05-26 We acknowledge the initiation and support of this Research Topic by the International Union of Immunological Societies IUIS We hereby state publicly that the IUIS has had no editorial input in articles included in this Research Topic thus ensuring that all aspects of this Research Topic are evaluated objectively unbiased by any specific policy or opinion of the IUIS      *CD4+CD25+ Regulatory T Cells: Origin, Function and Therapeutic Potential* B. Kyewski,Elisabeth Suri-Payer,2006-01-09 The vertebrate immune system defends the organism against invading pathogens while at the same time being self tolerant to the body s own constituents thus preserving its integrity Multiple mechanisms work in concert to ensure self tolerance Apart from purging the T cell repertoire from auto reactive T cells via negative selection in the thymus dominant tolerance exerted by regulatory T cells plays a major role in tolerance imposition and maintenance Among the various regulatory suppressive cells hitherto described CD4 CD25 regulatory T cells Treg and interleukin 10 producing T regulatory 1 Tr1 cells have been studied in most detail and are the subject of most articles in this issue Treg also called natural regulatory T cells will be traced from their intra thymic origin to the site of their action in peripheral lymphoid organs and tissues The repertoire of Treg is clearly biased towards recognition of self antigens thereby potentially preventing autoimmune diseases such as gastritis and oophoritis Regulatory T cells however also control infections allergies and tolerance to transplanted tissues and this requires their induction in the periphery under conditions which are not yet fully understood The concept of dominant tolerance by far not novel will offer new insights and hopefully tools for the successful treatment of autoimmune diseases improved cancer immunotherapy and transplant survival The fulfillment of these high expectations will however require their unambiguous identification and a better understanding of their mode of action      Cumulated Index Medicus ,1982      Science In Medicine Ushma S. Neill,American Society for Clinical Investigation,2007-10-31 Science in Medicine The JCI Textbook of Molecular Medicine is a collection of acclaimed articles

published in the Journal of Clinical Investigation during the Journal's tenure at Columbia University. The society that publishes the JCI, the American Society for Clinical Investigation (ASCI), is an honor society of physician scientists representing those who are at the forefront of translating findings in the laboratory to the advancement of clinical practice. This textbook brings together state-of-the-art reviews written by the world's leading authorities, including many ASCI members. The reviews examine the molecular mechanisms underlying a wide array of diseases and disorders affecting all major organ systems. The fundamentals of the organ or physiological systems in question are present alongside the underlying genetic or physiological abnormalities that result in disease. This text illustrates the translation of basic scientific knowledge into the current practice of clinical medicine. The reviews provide an authoritative and comprehensive overview by building on known scientific concepts and treatment of human disease while exploring where these advances might take medicine over the next decade. The book is a valuable resource for medical students, graduate students, house staff, attending and practicing physicians, and biomedical researchers.

**Generation and Effector Functions of Regulatory Lymphocytes** Gregory R. Bock, Jamie A. Goode, 2004-01-19. Over the last several years, immunologists have rediscovered the importance of regulatory lymphocytes, formerly termed suppressor cells. Many recent reports have documented their existence, effector functions, and potential therapeutic benefits in autoimmunity and transplantation. However, even though modern techniques have allowed us to get a much more detailed picture of these cells, they are still highly controversial. Several unresolved issues responsible for this dilemma are discussed in this book. It is difficult to grow and clone such cells; their phenotypes and effector functions are diverse and can sometimes easily be lost, and it is not well understood how they interact with antigen-presenting cells. This book contains contributions from leading investigators from around the world, including a lively discussion of the current state of the art in studies of regulatory lymphocytes. Topics featured are the physiological control of autoimmunity, the role of antigen-specific cells in various diseases and disease models, and effector mechanisms. Therapeutic applications are considered, particularly for type 1 diabetes, tissue transplantation, and the control of viral infection. This important and groundbreaking book should be of interest to all immunologists. Related Novartis Foundation symposia 254.

Immunoinformatics: bioinformatic strategies for better understanding of immune function. Chair: Hans Georg Rammensee. 256. Cancer and inflammation. Chair: Siemon Gordon. The Role of Glycans in Immune Cell Functions Jasmeen S.

Merzaban, Monica M. Burdick, Charles J. Dimitroff, 2020-05-26. Glycans represent a major constituency of post-translational modifications that occur on most, if not all, proteins. Whether on mammalian or invertebrate cell surfaces, they exist as sugar chain moieties designed from the exquisite and coordinated activity of cell-specific glycosylation. Some of the more common glycan structures are linked to cell surface polypeptides via an asparagine N-linked residue or a serine/threonine O-linked residue, along with a notable contingent found linked to ceramides in the lipid bilayer, known as glycosphingolipids. These glycans can associate with complementary glycan-binding proteins (GBP) or lectins to mediate and translate this carbohydrate

recognition to cell function In immunity there is increasing evidence that precise immune cell glycans are recognized by corresponding GBPs in a cell intrinsic or extrinsic manner Unique carbohydrate recognition domains within GBPs are comprised of precisely spaced amino acid functional groups that allow for selective engagement of a particular glycan target This structure function relationship is present in immune signaling pathways whereby glycans and GBPs on the surface of immune cells and non immune cells help control processes such as immune cell activation recognition of pathogens suppression and tissue specific migration The diversity of glycan structures and glycosylation among individual immune cell subsets is controlled by the expression of genes involved in glycan biosynthesis including glycosyltransferases glycosidases glycan precursor biosynthetic enzymes and nucleotide sugar transporters These genes represent more than 3% of the human genome and cell specific expression of these genes dictates a cell s glycan repertoire ultimately influencing its molecular interactions with GBPs Altogether these emerging lines of investigation highlight the regulatory capacity of glycans in immune health and disease which in turn pave the way for novel diagnostic prognostic and therapeutic strategies

**Recent Advances in  $\gamma\delta$  T Cell Biology: New Ligands, New Functions, and New Translational Perspectives** Dieter Kabelitz, Julie Dechanet-Merville, 2016-02-16 Gamma delta T cells are a small subset of T lymphocytes in the peripheral circulation but constitute a major T cell population at other anatomical localizations such as the epithelial tissues In contrast to conventional T cells the available number of germline genes coding for T cell receptor TCR variable elements of T cells is very small Moreover there is a preferential localization of T cells expressing given Vgamma and Vdelta genes in certain tissues In humans T cells expressing the Vg9Vd2 encoded TCR account for anywhere between 50 and 95% of peripheral blood T cells whereas cells expressing non Vd2 genes dominate in mucosal tissues In mice there is an ordered appearance of T cell waves during embryonic development resulting in preferential localization of T cells expressing distinct VgammaVdelta genes in the skin the reproductive organs or gut epithelia The major function of T cells resides in local immunosurveillance and immune defense against infection and malignancy This is supported by the identification of ligands that are selectively recognized by the TCR As an example human Vgamma9Vdelta2 T cells recognize phosphorylated metabolites phosphoantigens that are secreted by many pathogens but can also be overproduced by tumor cells providing a basis for a role of these T cells in both anti infective and anti tumor immunity Similarly the recognition of endothelial protein C receptor by human non Vdelta2 T cells has recently been identified to provide a link for the role for such T cells in immunity against epithelial tumor cells and cytomegalovirus infected endothelial cells In addition to classical functions such as cytokine production and cytotoxicity recent studies suggest that subsets of T cells can exert additional functions such as regulatory activity and quite surprisingly professional antigen presenting capacity It is currently not well known how this tremendous extent of functional plasticity is regulated and what is the extent of TCR ligand diversity Due to their non MHC restricted recognition of unusual stress associated ligands T cells have raised great interest as to their potential translational application in cell based

immunotherapy Topics of this Research Focus include Molecular insights into the activation and differentiation requirements of T cells role of pyrophosphates and butyrophilin molecules for the activation of human T cells role of T cells in tumor immunity and in other infectious and non infectious diseases and many others We are most grateful to all colleagues who agreed to write a manuscript Thanks to their contributions this E book presents an up to date overview on many facets of the still exciting T cells Dieter Kabelitz Julie D chanet Merville *On the Origin and Function of Human NK-like CD8+ T Cells: Charting New Territories* Fernando A. Arosa, 2018-01-25 Human CD8 T cells expressing NK receptors and receptors found on innate immune cells and designated as NK like or innate CD8 T cells have been long considered as terminally differentiated lymphocytes responsible for tissue inflammation and destruction However a growing body of knowledge is unveiling that NK like CD8 T cells have many sometimes contrasting functions The limited knowledge of the biology of this type of CD8 T cells and the role they play within peripheral tissues and organs under homeostatic conditions has hampered our understanding of disease and therefore the possible development of disease diagnostic tools and effective immunotherapies In this Research Topic are presented a variety of topics and views some of them overlooked for many years on human NK like CD8 T cells which may open new and novel avenues of research to further our understanding of these polyfunctional T cells

Lymphocytes in MS and EAE: More than just a CD4+ World Manu Rangachari, Nathalie Arbour, Steven M Kerfoot, Jorge I Alvarez, 2017-10-10 Multiple sclerosis is degenerative disease of the central nervous system CNS in which myelin destruction and axon loss leads to the accumulation of physical cognitive and mental deficits MS affects more than a million people worldwide and managing this chronic disease presents a significant health challenge Multiple lines of evidence indicate that MS is an autoimmune disorder in which immune cells launch an inflammatory attack targeting myelin antigens Indeed myelin reactive T cells and antibodies have been identified in MS patients and in animal models namely experimental autoimmune encephalomyelitis or EAE that recapitulate many features of human disease Animal model studies have demonstrated that T cells are both necessary and sufficient to initiate and sustain CNS autoimmunity However most MS animal models rely on the role played by CD4 T cells and partially replicate the multiple aspects of MS pathogenesis Thus research in the past has focused heavily on the contribution of CD4 T cells to the disease process searching PubMed for MS AND CD4 yields twice the results as corresponding searches for CD8 or B cell and four times that for NK cells While CD4 T cells may represent the minimum requirement to mediate CNS autoimmunity it is clear that the immune response underlying human MS is far more complex and involves numerous other immune cells and subsets This is well illustrated by the observation that MS patients treated with an anti CD4 depleting antibody did not gain any clinical benefits whereas removal of several lymphocyte subsets using an anti CD52 depleting antibody has been shown to impede disease progression In particular the pathogenic role s of non CD4 T cell lymphocytes is relatively poorly understood and under researched despite evidence that these subsets contribute to disease pathology or regulation For example the observed oligoclonal expansion of CD8 T cells within the CNS

compartment supports a local activation CD8 T cells with polarized cytolytic granules are seen in close proximity to oligodendrocytes and demyelinated axons in MS tissues The presence of B cells in inflammatory lesions and antibodies in the CSF have long been recognized as features of MS and Rituximab a B cell depleting therapy has been shown to be highly effective to treat MS Intriguingly the putative MS therapeutic reagent Daclizumab may function in part through the expansion of a subset of immunoregulatory NK cells NKT and T cells may also play a role in CNS autoimmunity given that they respond to lipid antigens and that myelin is lipid rich While different animal models recapitulate some of these aspects of human disease identifying appropriate models and measures to investigate the role of these less well understood lymphocytes in MS remains a challenge for the field This Frontiers research topic aims to create a platform for both animal and human focused researchers to share their original data hypotheses future perspectives and commentaries regarding the role of these less well understood lymphocyte subsets CD8 T cells B cells NK cells NK T cells T cells in the pathogenesis of CNS autoimmunity *T Cell Differentiation and Function in Tissue Inflammation* Amit Awasthi,Ritabrata

Goswami,2020-03-11 **NK Cell Subsets in Health and Disease: New Developments** Emanuela Marcenaro,Luigi D. Notarangelo,Jordan S. Orange,Eric Vivier,2017-11-29 Natural Killer NK cells were discovered ca 1975 as the first group of lymphoid cells that were neither T cells nor B cells Since then the dissection of the biology of NK cells has been growing exponentially with many seminal discoveries from the identification of MHC class I specific inhibitory receptors to the discovery of receptor ligand pairs involved in NK cell activation and to the manipulation of NK cells in cancer In this research topic we asked a group of thought leaders in NK cell biology to review recent advances in their origins and biology and their roles in cancer infection and inflammation Together these 25 articles provide a timely survey of NK cells as critical immunologic components of health and disease They will hopefully prompt further dialogue and developments in basic and translational immunology **Biomedical Index to PHS-supported Research: pt. A. Subject access A-H** ,1992

**Bacterial Virulence** Philippe Sansonetti,2010-04-05 Starting with basic principles this reference and handbook discusses examples of the most advanced models of bacterial infection with regard to their value as paradigms to understand the molecular cross talks between microbes and their host and tissue targets It adopts a very forward looking advanced approach placing special emphasis on the main global challenges facing scientists today such as pathogenicity vs commensalisms infections in immunocompromised hosts and species specificity issues **Modulating Cytokines as**

**Treatment for Autoimmune Diseases and Cancer** Erwan Mortier,Averil Ma,Barbara A. Malynn,Markus Neurath,2020-12-11 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

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**T Cell Regulation by the Environment** Anne L. Astier, David A. Hafler, 2015 Na ve T cells get activated upon encounter with their cognate antigen and differentiate into a specific subset of effector cells These T cells are themselves plastic and are able to re differentiate into another subset changing both phenotype and function Differentiation into a specific subset depends on the nature of the antigen and of the environmental milieu Notably certain nutrients such as vitamins A and D sodium chloride have been shown to modulate T cell responses and influence T cell differentiation Parasite infection can also skew Th differentiation Similarly the gut microbiota regulates the development of immune responses Lastly the key role of metabolism on T cells has also been demonstrated This series of articles highlights some of the multiple links existing between environmental factors and T cell responses



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