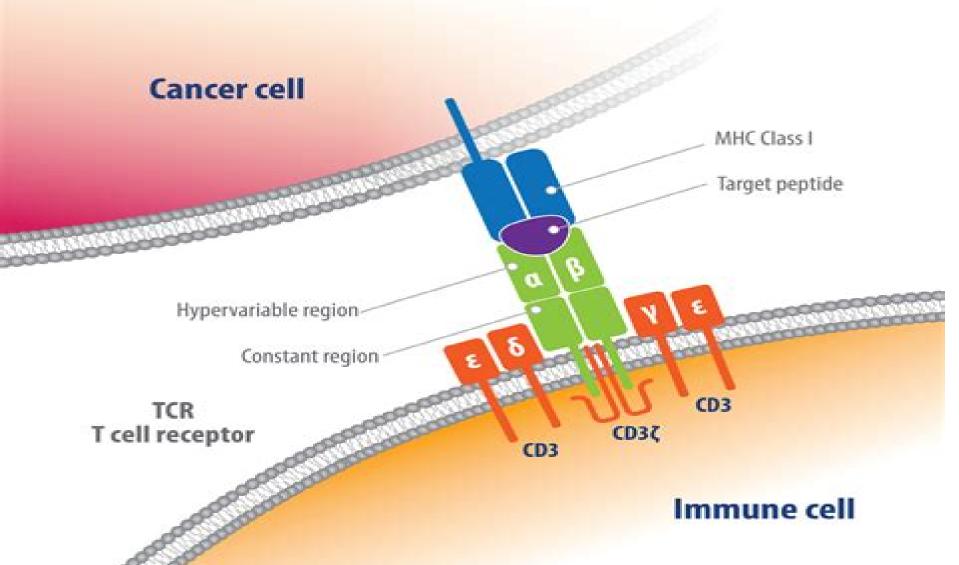
# T Cell Receptors (TCR)





# **T Cell Receptor**

**Bruno Laugel** 

#### T Cell Receptor:

The T Cell Receptor FactsBook Marie-Paule Lefranc, Gerard Lefranc, 2001-07-13 The T Cell Receptor FactsBook contains entries on all the 176 functional variable diversity joining and constant regions of the human T cell receptor including alpha beta gamma and delta loci Introductory chapters summarize information of T cell receptor chain synthesis chromosomal location and an overview of the human T cell receptor loci The T-Cell Receptors Tak W. Mak, 2012-12-06 The importance of thymus dependent cells or T cells in the generation of a successful immune response was first realized in the early sixties In the following two decades a succession of elegant experiments established the antigen specificity of T cells and their ability to perform both as regulatory and effector cells T cells were shown to be essential in most immune reactions playing a crucial role in augmenting the activity of effector T and B cells against foreign antigen as well as in the suppression of effector activity against self antigens The means by which T cells differentiate foreign from self antigens is based on their recognition of antigen almost exclusively in the context of self major histocompatibility complex products unlike B cells which recognize an tigen alone It is this recognition mediated by the T cell receptor that sets into motion the diverse cell cell interactions which control the differentiation and regulation of the immune response Although its importance was well established the molecular nature of the T cell receptor remained elusive for two decades Many hypotheses as to its structure and precise function were put forward using immunoglobulin as a basis for conjecture but the Holy Grail of Immunology remained ephemeral until three years ago In the ensuing years both immunologists and molecular biologists have contributed to an explosion of data unsurpassed by any previous period in the field The Human T-Cell Receptor Repertoire and Transplantation Peter van den Elsen, 2013-06-29 these analyses it became clear that the MHC class I molecule com prised a distinct groove on the external side of the molecule. The sides of the groove are formed by the a helical structures of the a and a 1 2 domains and a floor which is formed by 8 anti parallel 13 strands The various polymorphic residues as determined from DNA sequence analysis are localized within these a helices and 13 plated sheets within the groove More importantly these analyses also revealed the presence of electron dense material in the groove This material was subsequently iden 568 10 tified as a linear peptide of 8 10 amino acids long High resolution crystallographic analyses of the class I MHC structure have revealed the existence of so called pockets within the grooves of the MHC class I molecules These pockets designated A F exhibited allele specificity and are directly involved in the binding of the peptide primarily through interaction with the dominant anchor residues as found in MHC class I associated pep tides 6 7 9 11 The class II MHC antigens consist on the cell surface of a 34 kD a chain non covalently associated with a 28 kD 13 chain With the excep tion of the DR a chain all other MHC class II a and 13 chains are poly morphic **Antigen Binding Molecules: Antibodies** and T-Cell Receptors, 1996-12-13 Topics Covered Include X ray crystallography of ligands Catalytic antibodies Nature of the antigen Antibody binding sites Maturation of the immune response Computational biochemistry of antibodies and T cell

receptors Antigen specific T cell receptors and their reactions Key Features X Ray Crystallography of Ligands Catalytic Antibodies Nature of the Antigen Antibody Binding Sites Maturtion of the Immune Response Computational Biochemistry of Antibodies and T Cell Receptors Antigen Specific T Cell Receptors and Their Reactions T Cells in Arthritis P. Miossec.W. van den Berg, G. Firestein, 1998-07-21 Rheumatoid arthritis RA is the most common and most severe form of inflammatory arthritis The pathogenesis of RA has been the subject of intense research for several decades The prevailing hypotheses have changed over the years and have attempted to incorporate the most recent data Although T cells represent an important component of the cells which infiltrate the joint synovium their contribution at a late stage of the disease remains a matter of debate The goal of this book is to outline the major arguments and data suggesting that T cells may or may not be central players in the pathogenesis of chronic RA While each of the editors and authors has his her own bias as will be clear by reading the respective chapters our hope is that the readers will enjoy a complete and balanced view of the critical questions and experiments This is not just an intellectual exercise since the direction of future therapeutic interventions depends heavily on how one interprets the pathogenesis of RA and the contribution of T cells **Kuby Immunology** Thomas J. Kindt, Richard A. Goldsby, Barbara A. Osborne, Janis Kuby, 2007 Originally authored by the award winning author Janis Kuby Immunology remains the best selling textbook for the undergraduate course The first and only true textbook written by professors who teach the undergraduate course it presents the most current concepts in an experimental context with clinical advances highlighted in boxes supported by the kind of helpful pedagogical tools that other books do not provide

Investigating and harnessing T-cell functions with engineered immune receptors and their ligands Bruno Laugel, 2015-01-22 T cells are an essential component of the immune system that provide protection against pathogen infections and cancer and are involved in the aetiology of numerous autoimmune and autoinflammatory pathologies Their importance in disease the relative ease to isolate expand and manipulate them ex vivo have put T cells at the forefront of basic and translational research in immunology Decades of study have shed some light on the unique way T cells integrate extrinsic environmental cues influencing an activation program triggered by interactions between peptide MHC complexes and the antigen recognition machinery constituted of clonally distributed T cell receptors and their co receptor CD4 or CD8 The manipulation of these molecular determinants in cellular systems or as recombinant proteins has considerably enhanced our ability to understand antigen specific T cell activation to monitor ongoing T cell responses and to exploit T cells for therapy Even though these principles have given numerous insights in the biology of CD8 T cells that translate into promising therapeutic prospects as illustrated by recent breakthroughs in cancer therapy they have proven more challenging to apply to CD4 T cells This Research Topic aims to provide a comprehensive view of the recent insights provided by the use of engineered antigen receptors and their ligands on T cell activation and how they have been or could be harnessed to design efficient immunotherapies

Fundamental Immunology William E. Paul, 2008 Now thoroughly revised and updated this

comprehensive up to date text is ideal for graduate students post doctoral fellows microbiologists infectious disease physicians and any physician who treats diseases in which immunologic mechanisms play a role **Specificity and Function of Clonally Developing T Cells** Bernhard Fleischer, Jörg Reimann, Hermann Wagner, 2012-12-06 **Medical Subject Headings** National Library of Medicine (U.S.), 1999

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