

## Human B Cell Superantigens Molecular Biology Intelligent Unit

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### **Human B Cell Superantigens Molecular**

Here, we demonstrate that microbiota from a subset of human individuals encode two protein "superantigens" expressed on the surface of commensal bacteria of the family Lachnospiraceae such as *Ruminococcus gnavus* that bind IgA variable regions and stimulate potent IgA responses in mice. These superantigens stimulate B cells expressing human VH3 or murine VH5/6/7 variable regions and subsequently bind their antibodies, allowing these microbial organisms to become highly coated with IgA in vivo.

### **B cell superantigens in the human intestinal microbiota**

While numerous T cell superantigens have been characterized , only a handful of B cell superantigens have been described including staphylococcal protein A (SpA) and peptrostreptococcal protein L (Protein L) . Due to their highly potent

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immunostimulatory properties, these proteins have been associated exclusively with pathogenic organisms.

## **B cell superantigens in the human intestinal microbiota**

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## **B cell superantigens in the human intestinal microbiota**

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However, an additional mode of interaction can occur, whereby molecules, termed B-cell superantigens, can bind human B cells bearing immunoglobulin receptors of a given variable (V)-gene family. This mechanism requires contributions from regions outside the conventional hypervariable loops and results in a B-cell response of increased magnitude.

## **B-cell superantigens: implications for selection of the ...**

B-Cell Superantigens in Health and Disease For many years the Silverman lab has pioneered investigations of the molecular pathways responsible for the in vivo effects of exposure to a B cell superantigen.

## **B-Cell Superantigens in Health and Disease | b-cell ...**

This up-to-date sourcebook covers viral and bacterial superantigens (SAGs) from molecular structure and immunological processes to pathology and treatment of superantigen-mediated human diseases. Discusses diseases beyond Toxic Shock Syndrome, such as autoimmune and inflammatory skin conditions, as well as the role of superantigens in other infectious diseases.

## **Superantigens: Molecular Biology: Immunology, and ...**

Staphylococcal protein A (SpA) is representative of a new class of antigens, the B-cell superantigens (SAGs). These antigens bind to the Fab regions of immunoglobulin molecules outside their complementarity-determining regions. SpA, the best-studied B-cell SAG, reacts with the Fabs of most VH3+ immu ...

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## **Pathogenesis of B-cell superantigen-induced immune complex ...**

This up-to-date sourcebook covers viral and bacterial superantigens (SAGs) from molecular structure and immunological processes to pathology and treatment of superantigen-mediated human diseases. ... atopic dermatitis, scalded skin syndrome, scarlatiniform rash...presents data supporting the existence of B cell superantigens, highlighting ...

## **Superantigens: Molecular Biology: Immunology, and ...**

B-cell superantigens (SAGs), unlike conventional antigens, bind to the Fab regions of immunoglobulin (Ig) molecules outside their complementarity-determining regions (CDRs) (reviewed in references 20 and 38).

## **Pathogenesis of B-Cell Superantigen-Induced Immune Complex ...**

1857 eur gebundenes buch 1857 eur 1 gebraucht human b cell superantigens superantigens are a rapidly growing class of ligands for human b cells study of their interaction with lymphocytes provides insights into important mechanisms of the immune system this text surveys progress made in

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set of human individuals encode two protein "superantigens" expressed on the surface of commensal bacteria of the family Lachnospiraceae such as Ruminococcus gnavus that bind IgA variable regions...

## **MICROBIOTA Copyright © 2019 B cell superantigens in the ...**

Superantigens: Molecular Biology, Immunology, and Relevance to Human Disease Leung DYM This up-to-date sourcebook covers viral and bacterial superantigens (SAGs) from molecular structure and immunological processes to pathology and treatment of superantigen-mediated human diseases.

## **Superantigens: Molecular Biology, Immunology, and ...**

SEB, a typical bacterial superantigen (PDB:3SEB). The  $\beta$ -grasp

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domain is shown in red, the  $\beta$ -barrel in green, the " disulfide loop" in yellow. SEC3 (yellow) complexed with an MHC class II molecule (green & cyan). The SAGs binds adjacent to the antigen presentation cleft (purple) in the MHC-II.

## **Superantigen - Wikipedia**

B cell activation occurs in the secondary lymphoid organs (SLOs), such as the spleen and lymph nodes. After B cells mature in the bone marrow, they migrate through the blood to SLOs, which receive a constant supply of antigen through circulating lymph. At the SLO, B cell activation begins when the B cell binds to an antigen via its BCR.

## **B cell - Wikipedia**

This up-to-date sourcebook covers viral and bacterial superantigens (SAGs) from molecular structure and immunological processes to pathology and treatment of superantigen-mediated human diseases. Discusses diseases beyond Toxic Shock Syndrome, such as autoimmune and inflammatory skin conditions, as well as the role of superantigens in other ...

## **Superantigens : Molecular Biology, Immunology, and ...**

Cytokines elicited by superantigens are primarily of the Th1 type, some of which have been implicated in the pathogenesis of autoimmunity. The ability of superantigens to activate cells that express class II molecules on their surfaces has led to the suggestion that this may lead to polyclonal activation of B cells and the generation of autoantibodies.

## **ASMscience | Role of Superantigens in**

Pathogenicity can arise from either a monoclonal or a polyclonal B-cell response, and the molecular interaction between the autoantibodies and the target antigen has now been mapped by mutagenesis and crystallography (106, 107). In many cases, CAs are monoclonal IgM proteins and are produced by a B-cell tumor, often benign in character (101).

## **Polyclonal B Cell Response - an overview | ScienceDirect**

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Superantigens are powerful microbial toxins that activate the immune system by binding to class II major histocompatibility complex and T-cell receptor molecules.

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