

4. The variable domain V of the mature immunoglobulin light chain protein is encoded by  
-V and J gene segments forming one exons

26. The process used to produce either surface or secreted forms on the immunoglobulin heavy chain is called  
-Alternative RNA processing

36. What are the main antigen presenting cells (APC's) in the human body? How are they distributed in the secondary lymphoid tissues ie at what specific site in the lymphoid tissues do you find APCs?

- macrophages, B cells, and dendritic cells are the main antigen presenting cells or APC's of the human body. These APC's are distributed in secondary lymphoid tissue via bone marrow, they also collaborate with the thymus derived lymphocytes. Antigens are processed by APC's that get reformed so the T cell(s) can recognize them to protect against further/ later alterations with the same virus. This process makes it so the antigen is transported to the plasma membrane. CD4 membrane markers are on the cells that recognize.

37. List the major processes with potentials on increasing BCR or antibody diversity  
-somatic recombination  
-isotype switching  
- affinity maturity  
-generation of junctional diversity during the gene rearrangement

38. Explain how a vast number of immunoglobulins of different antigen specifics can be produced from the relatively small number of immunoglobulin genes present in the genome. Include the following terms in your explanation: somatic recombination, germline configuration, V, D, and J segments

- The way a vast number of immunoglobulins
- 1 different antigen specificities can be
- produced from the relatively small number of immunoglobulin genes present in the genome is by multiple V genes, V,D, and J recombination, V J recombination. Both domains are separately coded by the V-gene segments and C-gene segments respectively. In the light chain Variable region it is coded by two separate gene segment which contain the variable segment and a V and a small joining segment J. The Heavy chain variable region are coded by three gene segments which contain V-gene segment, D gene segment, and J gene segment, and C (constant) region exons regions of Ig. Thy He recombination or the V D) recombination is one of the processes th contributes to the diversity in immunoglobulins. The V D J recombination process til place in the bone marrow and thymus for B-cells and T-celly respectively. The V region germline DNA is highly susceptible to a high rate of somatic mutation during B cell development in response to antigen challenge. These mutations allow B cell clones fo produce antibodies with different polypeptide sequences. During the B-cell mutation: DNA sollicing occurs and one of the genes from

# Essay Questions In Immunology

**Marcel A. Müller**



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