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Answers to Jeremy's Super Duper 7.012 Immunology Quiz

Nomenclature

antigens antibodies epitope or antigenic determinant

Overview of the Immune System

Humoral immune system involves Abs, B cells (also helper T cells and macrophages). Cellular or Cell-Mediated

A Few Words about Antibodies (Abs)

B, Bone Marrow 4, heavy, light disulfide bonds VDJ VJ 2

Humoral Immunity

vacuole or phagolysosome
MHC II
B
MHC II, TH, Thymus, T cell receptor
T cell receptor
Il-2
clone, TCR (T cell receptor)
endocytosed, oligopeptides, vacuole or phagolysosome, MHC II
Antigen Presenting Cells
cytokines, clonally expand or proliferate, differentiate

Plasma Cells

ribosomes?, endoplasmic reticulum?, machines or factories! Memory Cells directed somatic mutation faster and stronger (higher antibody titers)

Cellular Immunity

MHC I, cytoplasm the virus, or viral peptides killer T or Cytotoxic T clone (or expansion) kills, perforin, membrane