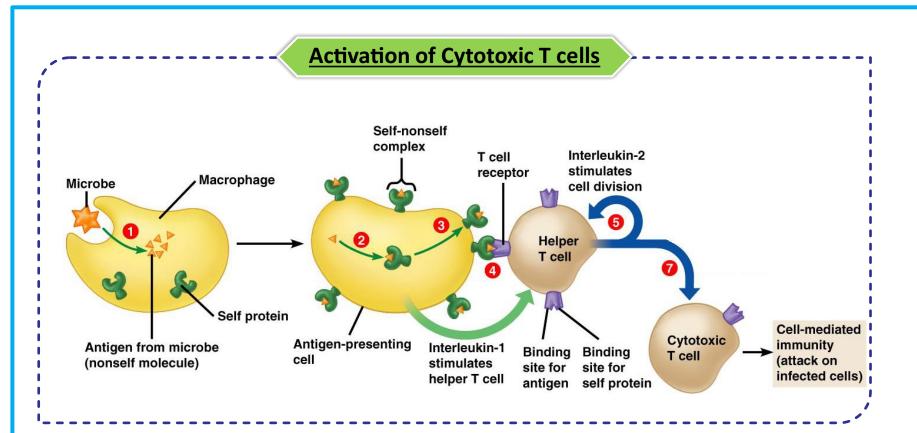
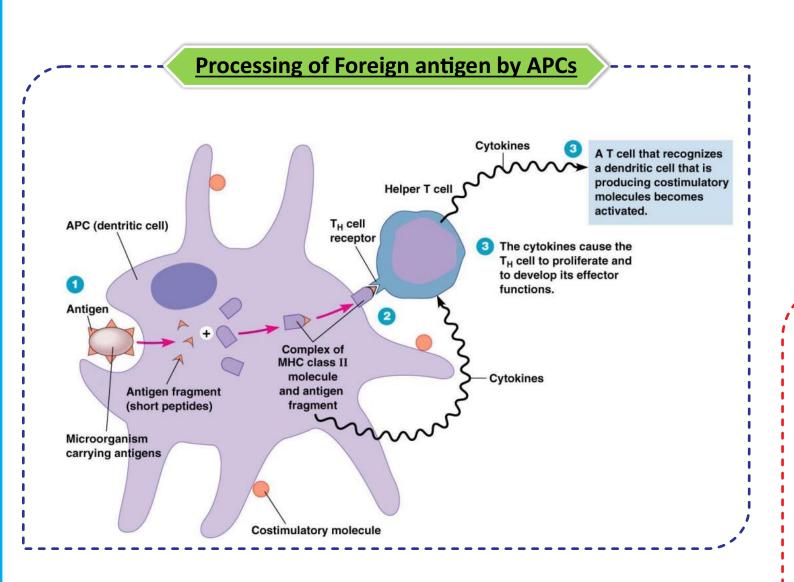


Mind Map on Adaptive Immunity



ADAPTIVE IMMUNITY





Presentation of foreign antigen to CTL Processed antigen presented with T cell MHC Processed MHC class I receptors antigen class I **Target** cell Cytotoxic CTL T lymphocyte (CTL) Virus-infected Virus-infected cell cell (example of endogenous antigen) 3 The CTL induces A normal cell will The abnormal antigen is produce endogenous destruction of the presented on the cell antigens that will not virus-infected cell surface in association with trigger a response by a by apoptosis. MHC class I molecules. cytotoxic T lymphocyte CD8 cells with receptors for the antigen are (CTL), but a virusinfected cell or a cancer transformed into CTLs. cell produces abnormal endogenous antigens.

Cell-mediated **Humoral** immunity immunity Immune response mediated by Immune response mediated by cells antibodies Protects against extracellular bacterial Protects against fungi, viruses, and facultative pathogens and viruses infecting respiratory or intestinal tract; and intracellular bacterial prevents recurrence of viral infections pathogens Mediates delayed (type IV) Mediates immediate (types I, II, and hypersensitivity III) hypersensitivity Only T-cell-dependent B cells directly bind soluble antigens resulting in production of antibodies antigens lead to cellmediated immunity Only T_H cells are involved Both CD4+ and CD8+ T cells are involved No major role in immunological Provides immunological surveillance and surveillance

May be involved in early graft

rejection due to preformed antibodies

immunity against cancer

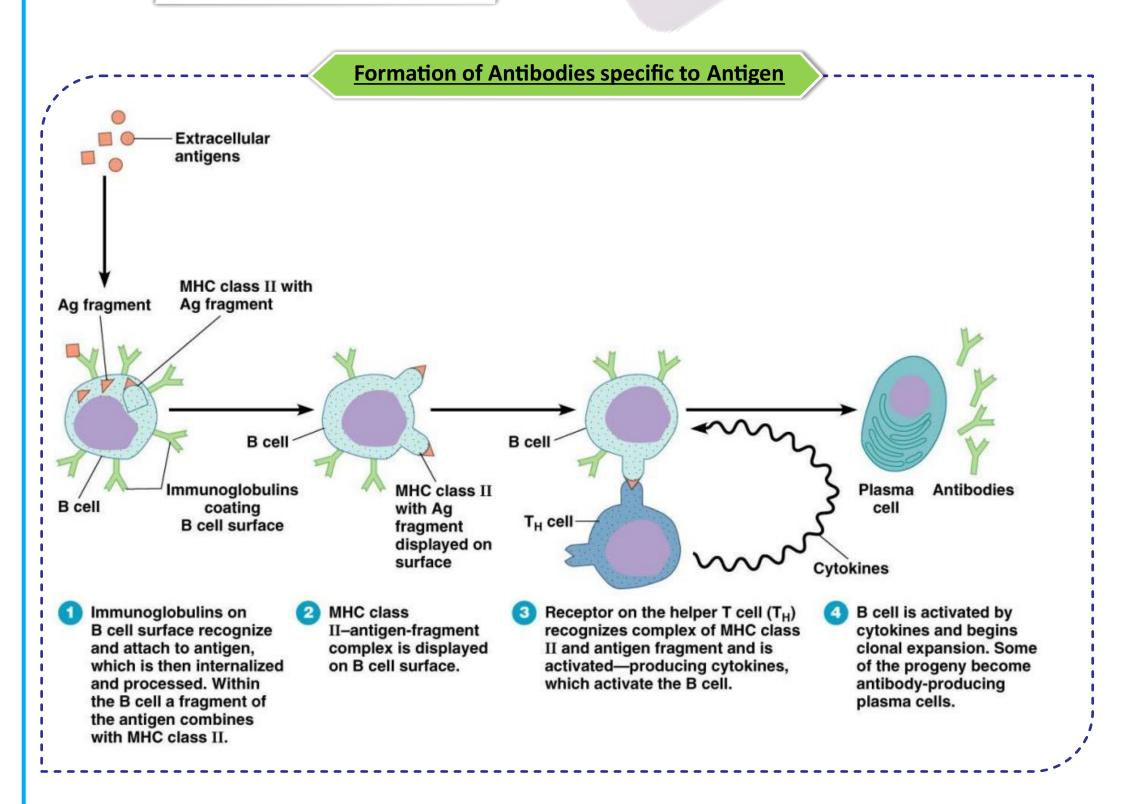
Participates in rejection

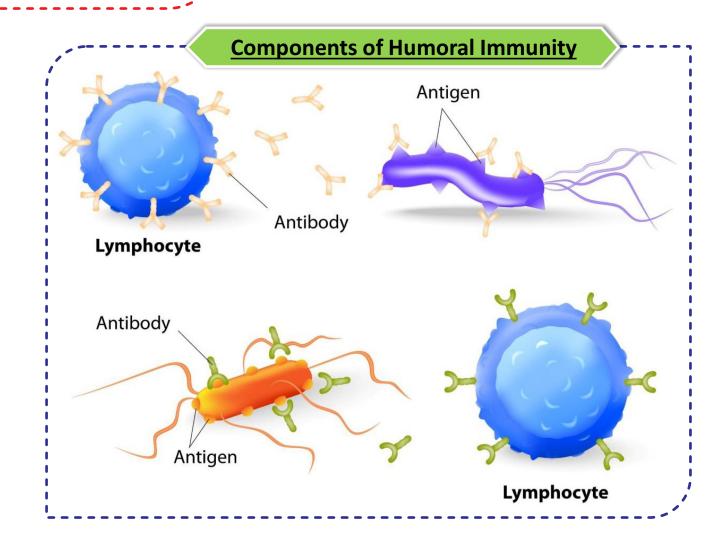
versus-host reaction

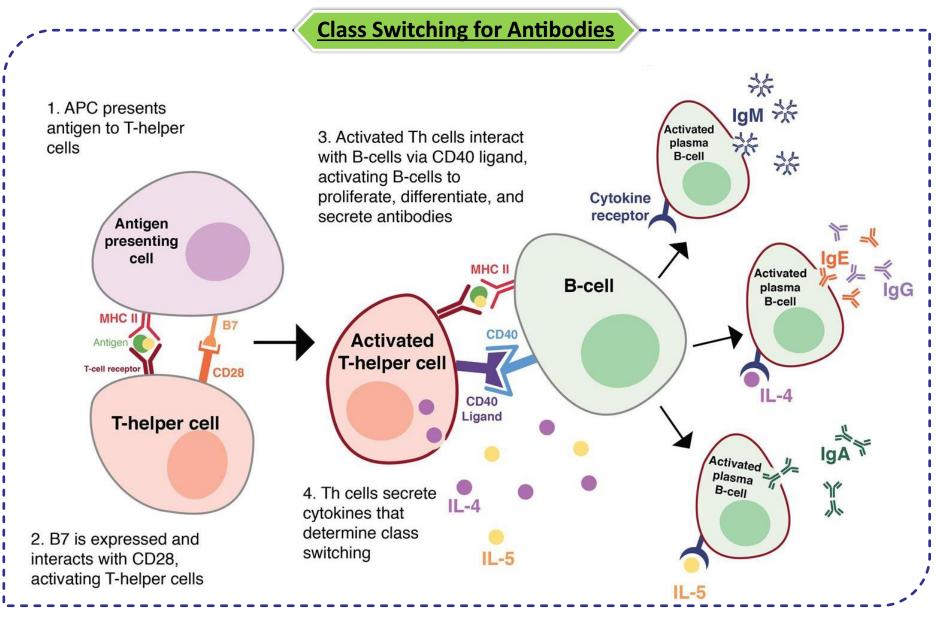
of homografts and graft-

CELL-MEDIATED IMMUNITY

HUMORAL IMMUNITY









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