
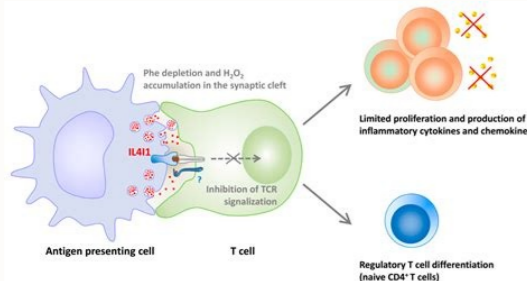
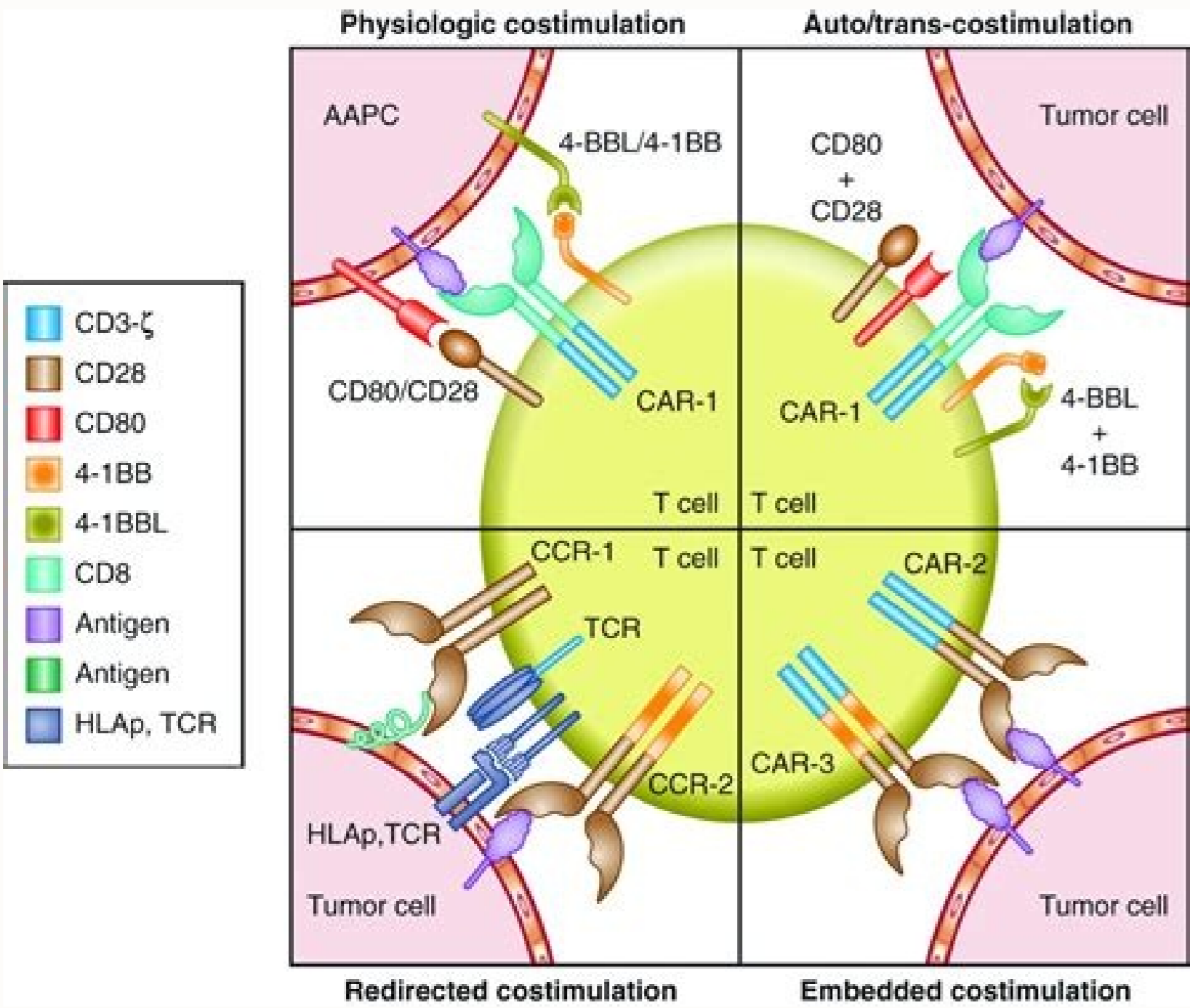
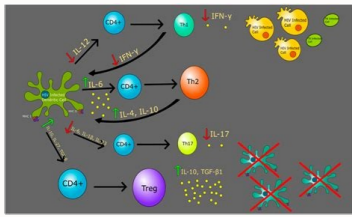
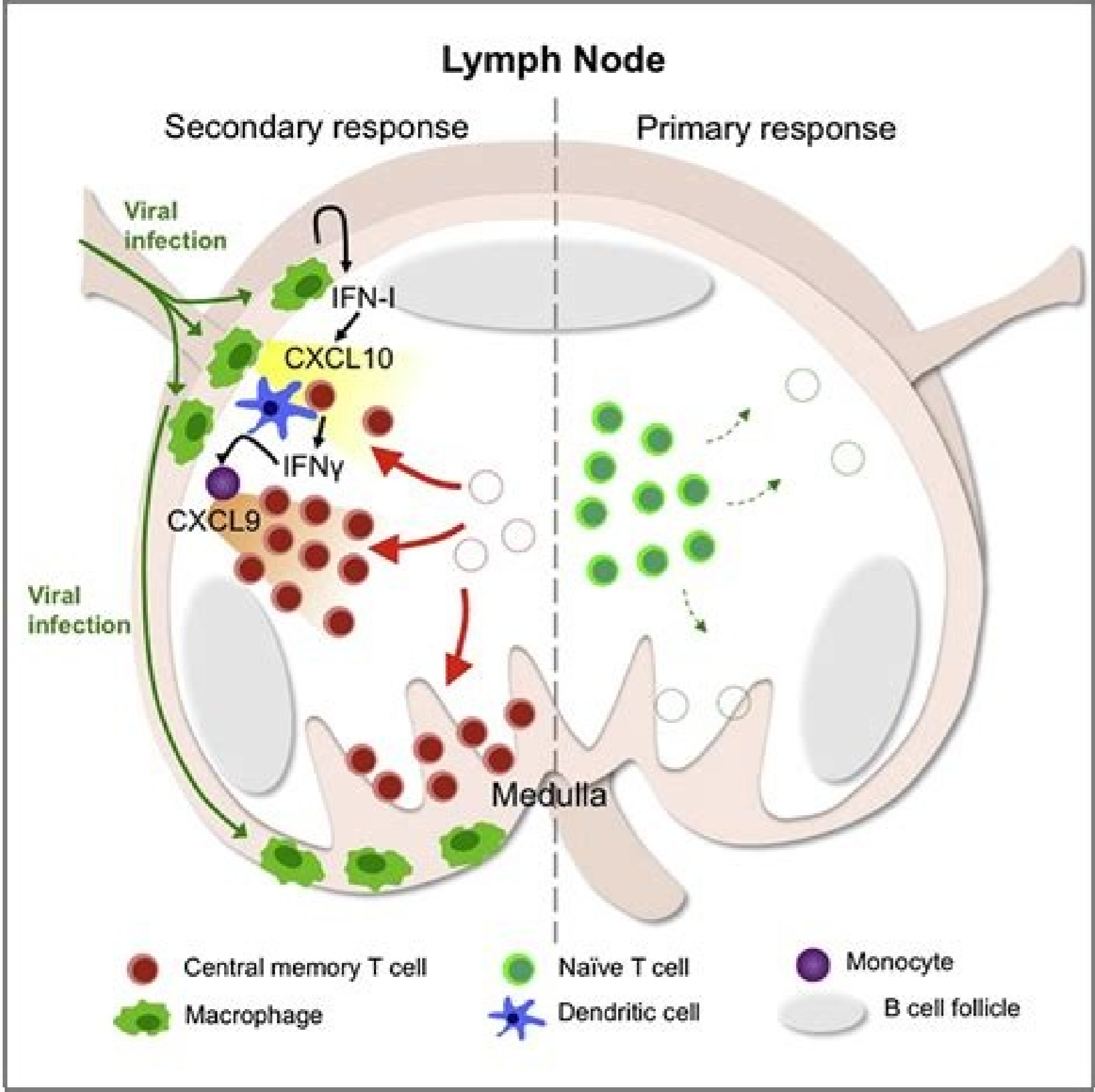
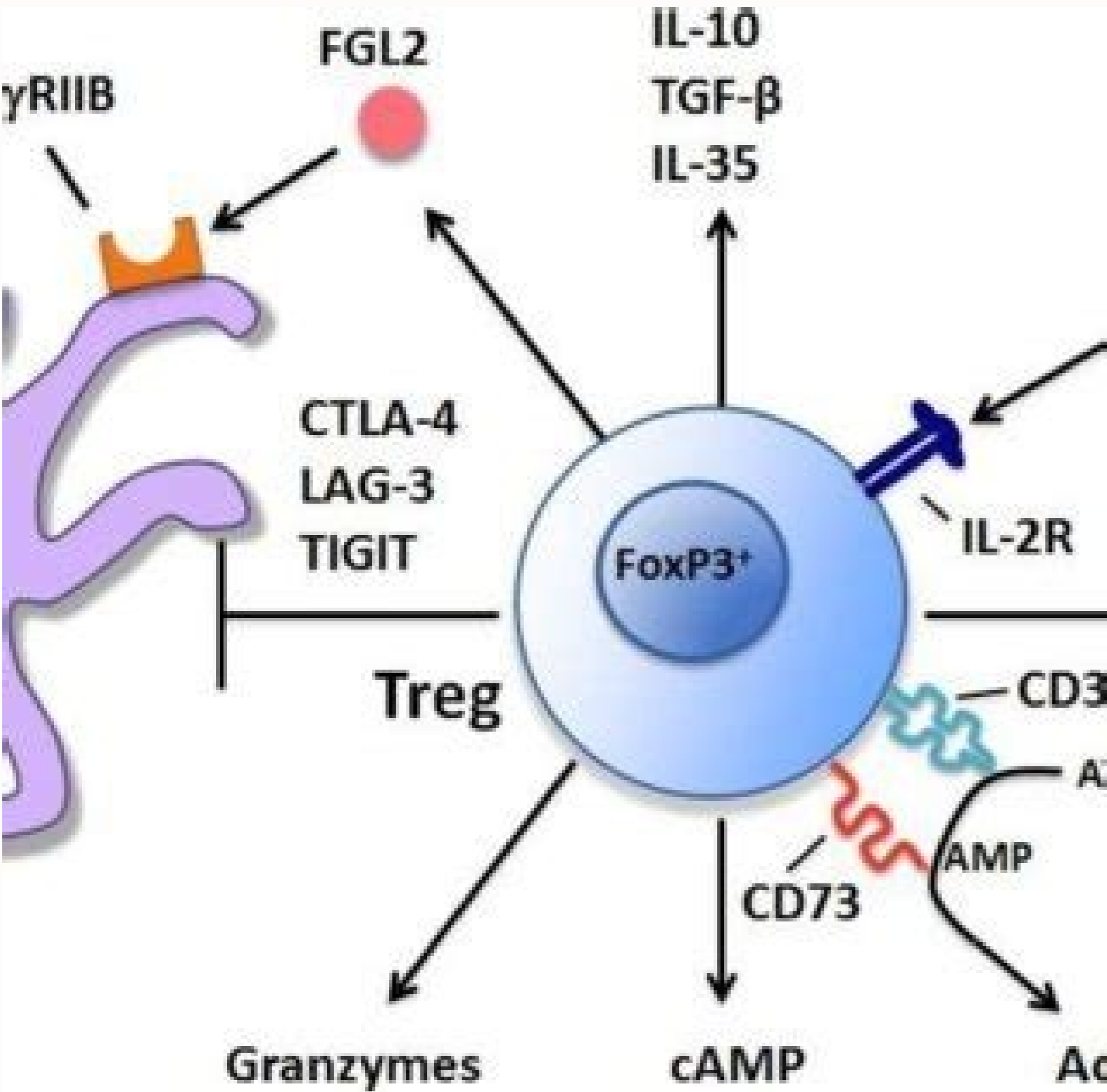


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Volume 39, Emission 12, 13 December 2021, Page 1623-1642. e20 Rights and contentThe membership number for the sequence data of the individual raw and processed cells listed in this document is GEO: GSE178245. Ovarian gene expression profiles with patient survival data were obtained from: E-MTAB-386, GSE113876, GSE17260, GSE8520, GSE26193, GSE30161, GSE32062, GSE49997, GSE9891, TCGA-RNASeqV2. Public cancers associated with both genetic profiling and clinical response to 177; PD-1 treatment was obtained from: GSE93157, GSE78220, GSE9070, GSE79691 (Roh 160aL, 2017; Chen al., 2016). Displays complete text cell that displays MHC-bound antigens on its surface presentation Antigen stimulates immature T cells to become mature "cytotoxic" CD8+ cells or mature CD4+ helper cells. A cell that has antigens (APC) or an accessory cell is a cell that has antigens linked to important histological compatibility proteins (MHC) on its surface; This process is known as the presentation of the antigen. T cells can recognize these complexes using their T cell (TCR) receptors. APCs process antigens and present them to T cells. Almost all types of cells may have antigens in some way. They are found in a variety of fabric types. Cells that have professional antigens, including macrophages, B cells and dendritic cells, have antigens that are foreign to auxiliary T cells, while virus infected cells (or tumour cells) may have antigens that originate from the cytotoxic T cell. In addition to the protein MHC family, the antigen presentation is based on other specialised surface reporting molecules cells both APC and T. Cells that have antigens are vital for an effective adaptive immune response, as © The function of both cytotoxic and helper T cells depends on APC. The presentation of the antigens allows the specificity of the adaptive immunity and can To immune responses against both intracellular and extracellular pathogens. It is also involved in defense against tumors. Some cancer therapies involve the creation of artificial APCs to optimize the adaptive immune system to hit malignant cells. Types and functions The cells presenting antigens fall into two categories: professional and non-professional. Those expressing MHC II class molecules together with co-stimulating molecules and models recognition receptors are often called professional cells that have antigens. [1] Non-professional APCs express MHC I class molecules. I cells must be activated before you can divide and perform their function. This is achieved by interacting with a professional APC that has an antigen recognized by their T cell receptor. The APC involved in the activation of T cells is usually a dendritic cell. T cells cannot recognize (and therefore cannot respond to) "free antigens" or soluble. They can only recognize and respond to the antigen that was processed and presented by cells through carrier molecules such as MHC molecules. Helper t cells can recognize the exogenous antigen presented on the MHC II class; Cytotoxic cells T can recognize the endogenous antigen presented on the MHC I class. Most organism cells can present antigen to CD8+ cytotoxic cells via MHC I class; However, the term "cell which features antigens" is often used specifically to describe professional APCs. These cells express the MHC I and MHC class II molecules and can stimulate T Helper CD4+ cells and cytotoxic T cells. [2] [3] The APCs can also present are external lipids and self to T and NK cells using the CD1 family of structurally similar to the MHC I family. [4] Professional APCs specialized in the presentation of antigens to T cells. [5] They are very effective in the internalisation of antigens, either by phagocytes (e.g. macrophages) or by means of endocytosis (B cells), turn the antigen into peptide fragments and then show those peptides (linked to a Class II MHC molecule) on their membranes. [1] Cell T recognises and interacts with the antigen class II MHC complex on the membrane of the antigen cell. A further co-stimulating signal is then produced by the antigen-producing cell, which leads to the activation of the T cell. The expression of the co-stimulating molecules and the MHC II class are distinctive features of professional APC. [1] All professional APCs also express class MHC I molecules. [2] The main types of cells that have professional antigens are dendritic cells, Macrophages and B cells. [1] Dendritic dendritic cells (DC) have the broadest range of antigenic presentation and are necessary for the activation of naive T cells. [1] DC has antigens for both T helper cells and cytotoxic cells. They may also perform a cross-presentation, a process by which they present exogenous antigens on class MHC I molecules to cytotoxic T cells. Cross presentation allows the activation of these T cells, dendritic cells also play a role in peripheral

tolerance, which contributes to the prevention of autoimmune diseases. [6]h Before encountering foreign antigens, dendritic cells express very low levels of MHC class II and co-stimulating molecules on their cell surface. Once the pattern recognition receptors of a dendritic cell recognize a molecular model associated with the pathogen, the antigen is phagocytated and the dendritic cell activates, increasing the expression of class MHC II. In addition, it increases several co-stimulating molecules needed for T cell activation, including CD40 and B7. The latter can interact with CD28 on the surface of a CD4+ T cell. [2][7][8] The Dendritic Cell a A⁺ then a Professional APC. It moves from tissue to lymph nodes, where it meets and activates T cells. [1] Macrophagic macrophages can be stimulated by interferon T cell secretion. [9] After this activation, macrophages are able to express MHC Class II and co-stimulating molecules, including the B7 complex, and may present phagocytic peptides to T heper T cells. [7] [8]. Activation can help pathogenic macrophages to erase the infection. [10] Based on a monocyte, a type of white blood cell, they will circulate the blood and insert the sites concerned and differentiate from monocytes to macrophages. At the site concerned, the macrophage surrounds the site of infection or tissue damage with its membrane in a mechanism called phagocytosis. B cells B cells can internalise the antigen that binds to their B cell receptor and present it to T helper T cells. [1] Unlike T cells, B cells can recognise the soluble antigen for which their B cell receptor is specific. They can then process the antigen and peptides present using Class II MHC II molecules. When a T-cell helper with a specific TCR for that peptide binds, the B-cell marker CD40 binds to CD40L on the T-cell surface. When activated by a T-cell, a B-cell may undergo the switch of the antibody isotype, the maturation of affinity, as well as © the formation of memory cells. [2] Non-professional APC antigen presentation cells include all nucleated cells in the body. They use an MHC I class molecule coupled with the beta-2 microglobulin to display endogenous peptides on the cell membrane. These peptides come from within the cell itself, in contrast to exogenous from professional APCs using Class II MHC molecules. Cytotoxic T cells are able to interact with endogenous antigen presented using a class MHC I molecule. [2] Non-professional APCs do not generally express class II MHC molecules. However, it was that the presentation of antigen to CD4+ cells via the MHC II class is not limited to professional classical APCs. Other leukocytes, including granulocytes, such as masts and neutrophils, may be induced to do so, as well as endothelial and epithelial cells under certain circumstances. However, there is little evidence that these atypical APCs are capable of activating naive CD4+ T cells. [1] Interaction with T cells After dendritic cells have phagocytic pathogens, they usually migrate into the vast network of lymphatic vessels and are transported from lymphatic flow to draining lymph nodes. Each A⁺ lymph node is a collection point where APCs can interact with T cells. [1] During migration, DCs undergo a maturation process: lose most of their capacity absorb other pathogens and mature by changing the surface expression of the MHC and co-stimulant molecules, as well as increasing the production of cytokines. The internalized antigen is digested into small peptides containing epitopes, which are then presented to T cells by MHC. [2][12] B cells reside in the lymph node. Once their B receptor binds to an antigen, they can interact with activated auxiliary T cells, as described above. A dendritic cell that interacts with a helper T giA cell activated may become authorized. [13] CiA² occurs through the interaction of co-stimulating molecules including B7 and CD40 on the dendritic cell, with CD28 and CD40 binding on the T cell. Only authorized dendritic cells are able to activate cytotoxic T cells. T-cell licenses for dendritic cells are critical for the activation of cytotoxic T-cells for many pathogens, although the extent to which T cells need help may vary. [14] In MHC molecules of I and Class II, only some epitopes of an internalized peptide may be presented. These epitopes are called immunodominants. [15] In oncology therapy, APCs naturally play a role in the fight against cancer, through of cytotoxic T cells and B cells to produce antibodies against cancer-related antigen and kill malignant cells, respectively. Dendritic cells, which present T-cell specific tumor antigen, are critical to this process. Cancer therapies have included treating the patient with an increase in the number of dendritic cells or cancer-specific T cells. However, the most recent therapies' have turned into genetically modified antigen cells designed to prepare the immune system to attack malignant cells. Some artificial APCs are derived from human cells; others are acellular, containing MHC proteins, co-stimulating molecules and the necessary peptides.[16][17] APC activator IMP321 A⁺ being clinical trials to accelerate the immune reaction to eliminate metastatic breast cancer or melanoma.[18][19] References to b c d e f h i Kambayashi T, Laufer TM (November 2014). can you? anything replace a dendritic cell?" Nature reviews. Immunology. 14 (11) 719Å Å30. doi:10.1038/nri3754. PMIDÅ 25324123. S2CIDÅ 22184639. a b c d e f g den Haan JM, Arens R, van Zelm MC (December 2014). 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