生技系 免疫學期末考考古題

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Terminology

- 1. Peyer's patch
- 2. IEL cell
- 3. Immunoevasins
- 4. Cytokine storm
- 5. Antigenic shift
- 6. Central memory T cells
- 7. AIDS
- 8. HAART
- 9. NK cell
- 10. GVHD

Single choice

- 1. Which immunoglobulin subtype is predominant in the secretions at the mucosa epithelia: (A) IgM (B) dimeric IgA (C) IgG (D) IgE.
- 2. Which immunoglobulin subtype is associated mostly with mast cells: (A) IgM (B) dimeric IgA (C) IgG (D) IgE.
- 3. Which chemokine receptor is a marker for naïve T cells? (A) CCR9 (B) CCR7 (C) C5aR (D) C3aR.
- 4. The molecule used by influenza virus to bind to cells is: (A) neuraminidase (B) nucleocapsid (C) hemagglutinin (D) matrix protein.
- 5. Trypanosomes use gene rearrangement to change which molecule to escape from adaptive immunity: (A) hemagglutinin (B) variant surface glycoprotein (C) Capsular polysaccharides (D) toxin.
- 6. The genetic defect of the following gene will lead to severe combined immunodeficiency (SCID) (A) C1INH (B) TAP1 (C) adenosine deaminase (D) β2 integrin.
- 7. The HIV co-receptor expressed on lymphocytes is (A) CXCR4 (B) CCR5 (C) CXCR3 (D) CCR1.
- 8. Which mechanism is used by *Mycobacterium tuberculosis* to escape immune response? (A) inhibit phagocytosis (B) escape from phagosome (C) inhibit phagosome-lysosome fusion (D) inhibit opsonization.
- 9. IgA1 and IgA2 subclasses are different in the (A) Fab region (B) variable region (C) hinge region (D) Fc region.
- 10. Which of the following is an example of acquired immunodeficiency? (A) x-linked agammaglobulinemia (B) Bare lymphocyte syndrome (C) AIDS (D) Chronic granulomatous disease.

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True or false

- 1. During a primary immune response, effector T cells outnumber memory T cells.
- 2. Live-attenuated virus vaccines usually elicit a poor protective immunity than killed virus vaccines.
- 3. Cancer cells form when a single mutation arises that abolishes the normal controls of cell proliferation and apoptosis.
- 4. Hematopoietic cell transplantation is a treatment for genetic diseases of blood cells.
- 5. Anti-HLA antibodies can arise from pregnancy, blood transfusion, or previous transplants.

- 1. _____ are universal recipients who can receive blood from any donor, but can donate only to individuals with their blood type. (A) AB RhD+ (B) AB RhD- (C) O RhD+ (D) O RhD-
- 2. Monoclonal antibodies are used in cancer treatment because of their ability to ______(A) enhance the DNA mutation (B) enhance the expression of tumor-specific antigens (C) target tumor cells for immune responses such as ADCC (D) activate regulatory cells
- 3. All of the following are examples of how tumors or the microenvironment in which they develop suppress immune responses expect_____ (A) induction of T-cell anergy (B) peptide splicing of self proteins (C) cleavage of MIC proteins form tumor-cell surfaces (D) release of TGF-beta and IL-10
- 4. The monoclonal antibody (Trastuzumab) used for treating breast cancer can inhibit the _____signaling. (A) EGFR (B) VEGF (C) ERBB2 (D) CTLA4
- 5. Which cell surface marker is specific expression in memory T cells (A) CD45RA (B) CD45RO (C) CD25 (D) CD69

Short assays

- 1. Name two ways in which memory T cells differ from naïve T cells that enable them to mount a more rapid immune response
- 2. Describe two different strategies for cancer treatment.