2009年 解答

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問題2．以下の質問に答えよ。

Q1. Give the names of the following processes. Choose an appropriate from the Key below.

a. Programmed cell death that is seen when cytotoxic T cells kill the targets.

b. Instruction (指示) to T cells of what to respond by macrophages or dendritic cells (樹状細胞), taking place mainly in lymph nodes.

c. Massive (大量の) proliferation (増殖)/multiplication (繁殖) of particular lymphocytes that have antigen receptors specific to given antigens.

d. Immune responses against "self".

e. Immediate allergic response that occurs when allergens enter into the blood stream, e.g. upon bee sting (ハチの刺し傷) and penicillin shots.

Key:
Acquired immunity (獲得免疫), Anaphylactic shock (アナフィラキーショック), Antibody-mediated immunity, Antigen presentation, Antigen processing (抗原プロセシング), Apoptosis, Autoimmunity, Cell-mediated immunity, Endocytosis, Clonal expansion, Contact dermatitis (接触皮膚炎), Delayed allergic response, Immunization (免疫法), Memory response, Necrosis (壊死(エシ)), Tissue rejection, Vaccination (予防接種)

a(Apoptosis) b(Antigen presentation) c(Clonal expansion)
d(Autoimmunity) e(Anaphylactic shock)

Q2. Indicate whether each of the following statements is true (T) or false (F).

a. Bacteria are eukaryotic (真核細胞) cells that live independently of host cells. (prokaryotic)

b. The major function of spleen is to filtrate blood to clear pathogens and debris.

c. Interferons are a cytokine that prevents virus from replicating in host cells.

d. A monoclonal antibody produced by a hybridoma cell can bind to a variety of bacteria, viruses and cancer cells.

e. Neutrophils secrete antibodies that are important for inflammation.

a(F) b(T) c(T) d(F) e(F)

◎抗原プロセシング＝抗原提示細胞が抗原を取り込み、MHC分子上に提示するまでの過程。

☆マクロファージと樹状細胞（＋B細胞）
抗原提示細胞

◎アナフィラキーショック＝特定の物質によって惹起される／IgE抗体を介した／即時型アレルギー反応で生じる／重篤な病態。

◎接触性皮膚炎＝外来性の物質が皮膚に接触して生じる皮膚の炎症。
アレルギー性のものはTリンパ球介在性の遅延型アレルギー反応。