

問答題 (每題 10 分)

1. Please describe the immune functions of Th1, Th2, and Tc (cytotoxic T) cells.
2. How do macrophages and neutrophils kill microorganisms?
3. Please describe the characteristics, anatomic structure, and significant roles of the thymus in developing the immune system.
4. Please list five molecules that belong to the Ig superfamily in the immune system and narrate their functions.
5. Please define and list the pros and cons of live-attenuated, inactivated, and DNA/RNA vaccines.
6. Take one disease for example to explain the pathogenesis of autoimmune disorders.
7. Please give the general descriptions of four types of hypersensitivity.
8. What are the roles of host antibodies in fighting cancers?
9. Please characterize the continuous and discontinuous epitopes.
10. What kinds of cytokines are needed in Th17 differentiation? (5 points) Please also describe their roles in supporting Th17 development (5 points).