

AP Biology Study Guide
Chapter 24: Immune System

Opening Essay

1. Describe the causes, symptoms, and treatments for mononucleosis. Explain why antibiotics are not effective against this disease.

Innate Defenses Against Infection

2. Describe the nature of innate defenses in invertebrates and vertebrates.
3. Describe the steps of the inflammatory response and explain how they help prevent the spread of disease.
4. Describe the structure and functions of the lymphatic system.

Acquired Immunity

5. Describe the specific nature of immune system responses. Define the terms antigen, antibody, passive immunity, and active immunity.
6. Describe the development and functions of B lymphocytes and T lymphocytes. Define and distinguish between the humoral immune response and the cell-mediated immune response.
7. Describe the nature of antigens. Explain how an antigen and an antibody interact.
8. Describe the process of clonal selection and compare a primary immune response to a secondary immune response.
9. Describe the specific structure of an antibody and relate its shape to its functions.
10. Describe four effector mechanisms. Explain how antibodies work with innate defenses to form a complete defense system.
11. Describe the production and functions of monoclonal antibodies.
12. Describe the specific functions of helper T cells and how they interact with other cells.
13. Explain how cytotoxic T cells destroy infected body cells.
14. Explain how HIV infects cells, multiplies, and causes disease.
15. Explain why it has been difficult to develop a successful treatment for AIDS.
16. Explain how the immune system identifies the body's own molecules and how this system complicates organ transplantations.

Disorders of the Immune System

17. Describe how the malfunction or failure of the immune system can cause disease.
18. Explain why allergies occur and what causes anaphylactic shock.

Immune System Ap Biology Study Guide Answers

Daniel F McAuley



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