Teaching unit 04

1. Main characteristics of cellular immunity. The role of T lymphocytes in defense against microorganisms

2. Phases of T-cell response

3. Recognition of antigens as part of molecules of major histocompatibility complex

4. The role of adhesive molecules in the activation of T lymphocytes

5. Costimulators and their physiological importance. Name the most important ligand-receptor pairs that participate in costimulation of T lymphocytes

6. Adjuvants

7. Stimuli for activation of CD8+ T lymphocytes

8. Clonal expansion

9. Basic properties of cytokines. The role of IL-2 and the receptor for IL-2 in the proliferation of T lymphocytes

10. Differentiation of naive into effector T lymphocytes

11. Th lymphocyte subpopulations. Basic functions.

12. Development of effector Th1 lymphocytes

13. Development of effector Th2 lymphocytes

14. Development of effector Th17 lymphocytes

15. Formation of memory T lymphocytes. Weakening of the immune response.

16. Types of cellular immunity and types of intracellular infections

17. Migration of naive T lymphocytes

18. Migration of effector T lymphocytes to the site of infection

19. Effector functions of Th1 lymphocytes

20. Elimination of microorganisms via activated macrophages

21. Effector functions of Th17 lymphocytes

22. Effector functions of Th2 lymphocytes

23. Effector functions of cytotoxic T lymphocytes

24. Cooperation of CD4+ and CD8+ T lymphocytes in the elimination of intracellular infections