Biological Therapy

1. The definition of biological therapy (immunotherapy)
2. The history of immunotherapy
3. Principles of the interaction between the host immune system and the tumor cells
4. Overview of the anticancer immunotherapeutic strategies
5. Immune checkpoint therapy, anti-CTLA-4 therapy
6. Immune checkpoint therapy, anti-PD-1/PD-L1 therapy
7. Immune checkpoint therapy, other inhibitory immune checkpoints
8. Inducible T-cell costimulator, ICOS and its targeting in cancer immunotherapy
9. 4-1BB (CD137) and its targeting in cancer immunotherapy
10. OX40 (CD134) and its targeting in cancer immunotherapy
11. The principles of adoptive cell transfer
12. Adoptive transfer of tumor-specific cytotoxic T cells
13. Adoptive immunotherapy with genetically modified lymphocytes
14. The characteristics of four generations of CAR T Cells
15. Adoptive transfer of viral specific T cells
16. Monoclonal antibodies as therapeutic agents
17. Classification monoclonal antibodies
18. Naked mAbs
19. Conjugated/Tagged/Labeled/Loaded mAbs
20. Bispecific monoclonal antibodies
21. Cytokine therapy
22. Cancer vaccines
23. Oncolytic virus immunotherapy
24. Mechanisms of tumor resistance to immune-mediated therapy