Gene Therapy for Viral Infections

Description: Gene Therapy for Viral Infections provides a comprehensive review of the broader field of nucleic acid and its use in treating viral infections. The text bridges the gap between basic science and important clinical applications of the technology, providing a systematic, integrated review of the advances in nucleic acid-based antiviral drugs and the potential advantages of new technologies over current treatment options.

Coverage begins with the fundamentals, exploring varying topics, including harnessing RNAi to silence viral gene expression, antiviral gene editing, viral gene therapy vectors, and non-viral vectors.

Subsequent sections include detailed coverage of the developing use of gene therapy for the treatment of specific infections, the principles of rational design of antivirals, and the hurdles that currently face the further advancement of gene therapy technology.

- Provides coverage of gene therapy for a variety of infections, including HBV, HCV, HIV, hemorrhagic fever viruses, and respiratory and other viral infections
- Bridges the gap between the basic science and the important medical applications of this technology
- Features a broad approach to the topic, including an essential overview and the applications of gene therapy, synthetic RNA, and other antiviral strategies that involve nucleic acid engineering
- Presents perspectives on the future use of nucleic acids as a novel class of antiviral drugs
- Arms the reader with the cutting-edge information needed to stay abreast of this developing field

Contents:
1. Essentials of Gene Therapy for Viral infections
2. Harnessing RNAi to silence Viral Gene Expression
3. Antiviral sequence-specific DNA binding proteins
4. Viral Gene Therapy Vectors
5. Nonviral vectors
6. Gene therapy for HBV infection
7. Gene therapy for HCV infection
8. Gene therapy for HIV infection
9. Gene therapy for respiratory and other viral infections
10. Gene therapy for hemorrhagic fever viruses
11. Gene transfer for vaccination against viral infection
12. Conclusion


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