Essential Human Virology

Description: Essential Human Virology is written for the undergraduate level with case studies integrated into each chapter. The structure and classification of viruses will be covered, as well as virus transmission and virus replication strategies based upon type of viral nucleic acid. Several chapters will focus on notable and recognizable viruses and the diseases caused by them, including influenza, HIV, hepatitis viruses, poliovirus, herpesviruses, and emerging and dangerous viruses.

Additionally, how viruses cause disease, or pathogenesis, will be highlighted during the discussion of each virus family, and a chapter on the immune response to viruses will be included. Further, research laboratory assays and viral diagnosis assays will be discussed, as will vaccines, anti-viral drugs, gene therapy, and the beneficial uses of viruses. By focusing on general virology principles, current and future technologies, familiar human viruses, and the effects of these viruses on humans, this textbook will provide a solid foundation in virology while keeping the interest of undergraduate students.

- Focuses on the human diseases and cellular pathology that viruses cause
- Highlights current and cutting-edge technology and associated issues
- Presents real case studies and current news highlights in each chapter
- Features dynamic illustrations, chapter assessment questions, key terms, and summary of concepts, as well as an instructor website with lecture slides, test bank, and recommended activities

Contents:

1. Introduction
2. Viral Structure and Classification
3. Virus Replication, Part 1: Attachment, Penetration, and Uncoating
4. Virus Replication, Part 2: Genome Replication
5. Virus Replication, Part 3: Assembly, Maturation, and Release
6. Diagnosis of Viral Infections
7. Virus Transmission, Entry, and Spread
8. The Immune Response to Viruses
9. Vaccines, Antivirals, and the Beneficial Uses of Viruses
10. Viruses and Cancer
11. Influenza
12. Human Immunodeficiency Virus (HIV)
13. Hepatitis Viruses
14. Herpesviruses
15. Poliovirus
16. Rabies
17. Gastroenteritis viruses
18. Poxviruses
19. Emerging and dangerous viruses

20. Subviral agents (entities) and the evolution of viruses

Appendixes:

1. Features of Host Cells: Molecular and Cellular Biology Review A cell and molecular biology review that discusses the characteristics of DNA, RNA, and protein the Central Dogma of molecular biology and cellular features that are important in understanding virus replication strategies

2. Abbreviations and Glossary

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