

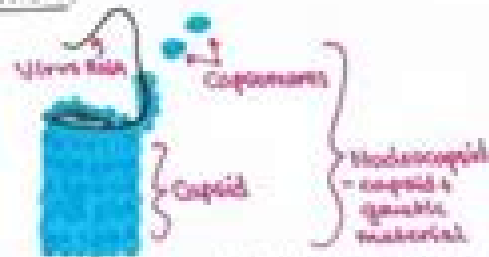
CHARACTERISTICS OF VIRUSES

Genome



Structure

Helical



- Forms a hollow rigid rod w/ capsomeres on the outside and nucleic acid genome on the inside
- longer genome = longer rod

Icosahedral



- Overall shape of icosahedral virus depends on the orientation of the capsomeres
- most efficient arrangement of capsomeres is in a closed shell

Complex

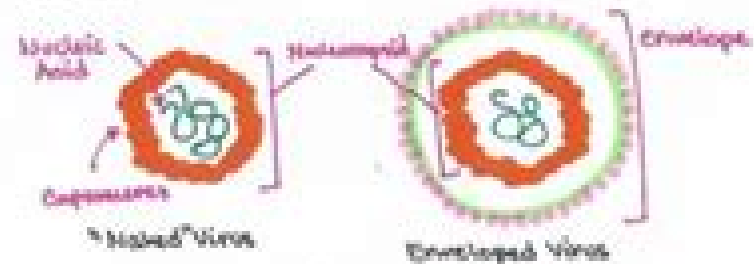
Ex. T4



- Can contain several parts w/ separate shapes and symmetries
- Bacterial viruses can often contain complicated structures
 - Icosahedral heads and helical tails

Envelope

- is not always present but virus can have it on its surface
- Viruses w/o envelope (just nucleocapsid) are called "naked" viruses



- Envelope contains membrane proteins surrounding nucleocapsid
 - Lipid bilayer w/ embedded proteins
 - Proteins are often useful for host membrane recognition and attachment
 - Usually the envelope proteins are inserted into the plasma membrane during virus biosynthesis
 - Virus picks up envelope as it leaves the cell

Viral Proteins

Ligases - makes hole in cell wall for virus entry and for cell lysis

Nucleic acid polymerases - make viral pro genetic material after entry into host cell
Ex. reverse transcriptase

Neuraminidases - enzymes that cleave glycosidic bonds and allow liberation of viruses from cell
Ex. all influenza viruses

Microbiology Viruses Study Guide

Brigitte Niedzwiecki, Julie Pepper



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Table of Contents Microbiology Viruses Study Guide

1. Understanding the eBook Microbiology Viruses Study Guide
 - The Rise of Digital Reading Microbiology Viruses Study Guide
 - Advantages of eBooks Over Traditional Books
2. Identifying Microbiology Viruses Study Guide
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microbiology Viruses Study Guide
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microbiology Viruses Study Guide
 - Personalized Recommendations
 - Microbiology Viruses Study Guide User Reviews and Ratings
 - Microbiology Viruses Study Guide and Bestseller Lists

5. Accessing Microbiology Viruses Study Guide Free and Paid eBooks
 - Microbiology Viruses Study Guide Public Domain eBooks
 - Microbiology Viruses Study Guide eBook Subscription Services
 - Microbiology Viruses Study Guide Budget-Friendly Options
6. Navigating Microbiology Viruses Study Guide eBook Formats
 - ePub, PDF, MOBI, and More
 - Microbiology Viruses Study Guide Compatibility with Devices
 - Microbiology Viruses Study Guide Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microbiology Viruses Study Guide
 - Highlighting and Note-Taking Microbiology Viruses Study Guide
 - Interactive Elements Microbiology Viruses Study Guide
8. Staying Engaged with Microbiology Viruses Study Guide
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microbiology Viruses Study Guide
9. Balancing eBooks and Physical Books Microbiology Viruses Study Guide
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microbiology Viruses Study Guide
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Microbiology Viruses Study Guide
 - Setting Reading Goals Microbiology Viruses Study Guide
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Microbiology Viruses Study Guide
 - Fact-Checking eBook Content of Microbiology Viruses Study Guide
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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