#### Chapter 19: Viruses

1. What was some early evidence of the existence of viruses? Why were they difficult to study?

In 1883, Adolf Mayer discovered that he could transmit tobacco messaic disease from plant to plant by rubbing sap extracted from diseased leaves into healthy plants. After an unsuccessful search for an infectious microbe in the sap. Mayer suggested that the disease was caused by unusually small bacteria that were invisible under a microscope. A decade later, Ivanowsky reasoned that such bacteria were small enough to pass through a porcelain filter or made a toxin that could do so. The latter idea was ruled out when Martinus Beijerinck showed that the infectious agent in the filtered sap could replicate, but, unlike bacteria used in the lab at that time, could not be cultivated on nutrient media in text tubes or petri dishes. Beijerinck imagined a replicating particle much smaller and simpler than a bacterium. Because viruses are so small, they are difficult to detect and study.

2. What was Wendell Stanley's contribution to our knowledge of viruses?

In 1935, Stanley crystallized the tobacco mosaic virus (TMV), confirming Beijerinck's concept. Subsequently, many viruses could be seen with an electron microscope.

3. What are the four forms of viral genomes?

Viral genomes may consist of double-stranded DNA, single-stranded DNA, double-stranded RNA, or single-stranded RNA.

4. What is a capsid? What are capsomeres? What different shapes may capsids have?

The protein shell enclosing the viral genome is called a capsid. Depending on the type of virus, the capsid may be rodshaped, polyhedral, or more complex in shape, like T4. Capsids are built from a large number of protein subunits called capsomeres, but the number of different kinds of proteins in a capsid is usually small.

5. What are the components of a viral emvelope?

Viral Component	Derived From	
phospholipids and membrane proteins	host cell	
proteins and glycoproteins	viral origin	

6. What is the role of an envelope in animal viruses?

Viral envelopes contain bost cell phospholipids and membrane proteins, as well as proteins and glycoproteins of viral origin. These accessory structures help viruses infect their hosts.

7. What is a bacterjophage T4? /

"Bacteriophage" means "bacteria eater." T4's bost is E. coli and its genome consists of DNA.

8. What property of a virus determines its attachment to a host cell membrane?

Viruses usually identify bost cells by a "lock-and-key" fit between viral surface proteins and specific receptor molecules on the outside of cells.

9. Viruses are obligate intracellular proteins. What does this mean?

Viruses can only replicate within a host cell, subsisting on "borrowed life."

10. What is meant by host range?

Each particular virus can infect cells of only a limited number of host species, called the host range of the virus. This host specificity results from the evolution of recognition systems by the virus. Some viruses have broad host ranges. For example, West Nile virus can infect mosquitoes, birds, horses, and humans. Other viruses have host ranges so narrow

# **Ap Biology Chapter 19 Viruses Study Guide Answers**

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Mammalogy George A. Feldhamer, Lee C. Drickamer, Stephen H. Vessey, Joseph F. Merritt, Carey Krajewski, 2015-01-15 Reflecting the expertise and perspective of five leading mammalogists the fourth edition of Mammalogy Adaptation Diversity Ecology significantly updates taxonomy includes a new chapter on mammalian molecular phylogenetics and highlights several recently described species There are close to 5 500 species in the class Mammalia including the blue whale the largest animal that has ever lived and the pygmy shrew which weighs little more than a penny The functional diversity of mammals has allowed them to play critical roles in every ecosystem whether marine freshwater alpine tundra forest or desert Many mammal species are critically endangered and present complex conservation and management challenges This book touches on those challenges which are often precipitated by overharvesting and habitat loss as well as emerging threats such as the impact of wind turbines and white nose syndrome on bats and chronic wasting disease on deer Among the updates and additions to the fourth edition of Mammalogy are numerous new photos figures and cladograms over 4 200 references as well as A completely new chapter on mammalian phylogeny and genomics Current taxonomy including major changes to orders suborders and superfamilies of bats and rodents An explanation of the recent inclusion of whales with terrestrial even toed ungulates Updates on mammalian structural functional adaptations and fossil history recent advances in our understanding of phylogeny biogeography social behavior and ecology A discussion of two new orders and thirteen newly recognized extant families Reflections on the implications of climate change for mammals Thorough examinations of several recently described species including Durrell's vontsira Salanoia durrelli and the Laotian rock rat Laonastes aenigmamus An explanation of mammalian biomechanics such as that seen in lunge feeding of baleen whales Breakout boxes on unique aspects of mammals including the syntax of bat songs singing mice and why there are no green mammals unless we count algae covered sloths Maintaining the accessible readable style for which Feldhamer and his coauthors are well known this new edition of Mammalogy is the authoritative textbook on this amazingly diverse class of vertebrates Backpacker ,2001-03 Backpacker brings the outdoors straight to the reader's doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world's first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured Monthly List of Russian Accessions, 1955 **Monthly Index of Russian Accessions** ,1955 Monthly List of Russian Accessions Library of Congress. Processing Bulletin of the Atomic Scientists, 1958-01 The Bulletin of the Atomic Scientists is the premier Department, 1955-08 public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin's iconic Doomsday Clock stimulates solutions for a safer world **National Library Service** 

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## **Table of Contents Ap Biology Chapter 19 Viruses Study Guide Answers**

- 1. Understanding the eBook Ap Biology Chapter 19 Viruses Study Guide Answers
  - The Rise of Digital Reading Ap Biology Chapter 19 Viruses Study Guide Answers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Ap Biology Chapter 19 Viruses Study Guide Answers
  - 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 Ap Biology Chapter 19 Viruses Study Guide Answers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ap Biology Chapter 19 Viruses Study Guide Answers
  - Personalized Recommendations
  - Ap Biology Chapter 19 Viruses Study Guide Answers User Reviews and Ratings
  - Ap Biology Chapter 19 Viruses Study Guide Answers and Bestseller Lists

- 5. Accessing Ap Biology Chapter 19 Viruses Study Guide Answers Free and Paid eBooks
  - o Ap Biology Chapter 19 Viruses Study Guide Answers Public Domain eBooks
  - Ap Biology Chapter 19 Viruses Study Guide Answers eBook Subscription Services
  - Ap Biology Chapter 19 Viruses Study Guide Answers Budget-Friendly Options
- 6. Navigating Ap Biology Chapter 19 Viruses Study Guide Answers eBook Formats
  - o ePub, PDF, MOBI, and More
  - Ap Biology Chapter 19 Viruses Study Guide Answers Compatibility with Devices
  - Ap Biology Chapter 19 Viruses Study Guide Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ap Biology Chapter 19 Viruses Study Guide Answers
  - Highlighting and Note-Taking Ap Biology Chapter 19 Viruses Study Guide Answers
  - Interactive Elements Ap Biology Chapter 19 Viruses Study Guide Answers
- 8. Staying Engaged with Ap Biology Chapter 19 Viruses Study Guide Answers
  - o Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - $\circ$  Following Authors and Publishers Ap Biology Chapter 19 Viruses Study Guide Answers
- 9. Balancing eBooks and Physical Books Ap Biology Chapter 19 Viruses Study Guide Answers
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Ap Biology Chapter 19 Viruses Study Guide Answers
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ap Biology Chapter 19 Viruses Study Guide Answers
  - Setting Reading Goals Ap Biology Chapter 19 Viruses Study Guide Answers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ap Biology Chapter 19 Viruses Study Guide Answers
  - Fact-Checking eBook Content of Ap Biology Chapter 19 Viruses Study Guide Answers
  - 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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