

Name:

Date: 5/17/2021

Student Exploration: Virus Lytic Cycle

Vocabulary: bacteriophage, capsid, host cell, lyse, lytic cycle, virus

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. A computer virus is a program that can copy itself and infect a computer without the permission of the owner. How do you think a computer virus compares to a real virus?

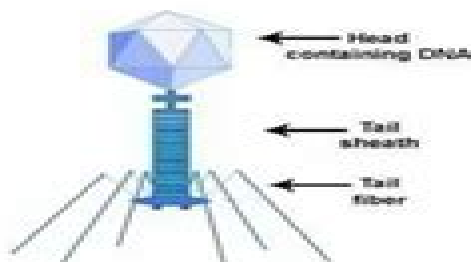
A computer virus infects a computer, and a real virus infects an organism. During an infection, both types of viruses make copies of themselves so that more infections can occur. A computer virus disrupts the functions of a computer, while a real virus destroys its host cells.

2. Have you ever been infected with a virus, such as the cold virus or flu virus? **yes**
3. If so, how did the virus affect you? **The viruses affected me by giving me fevers and congestions.**

Gizmo Warm-up

A **virus** is a microscopic particle that can infect a cell. Viruses are primarily composed of a protein coat, called a **capsid**, and nucleic acid. In the *Virus Lytic Cycle Gizmo™*, you will learn how a virus infects a cell and uses the cell to produce more viruses.

1. Viruses are extremely small. A typical virus is about 100 times smaller than a single cell, such as a bacterium.



Bacteriophages are viruses that infect bacteria.



Student Exploration Virus Lytic Cycle Answers

Hiroomi Tada



Student Exploration Virus Lytic Cycle Answers:

Regulation of the JC Virus Lytic Cycle Hiroomi Tada, 1992 *Molecular and Cellular Biology of Viruses* Phoebe Lostroh, 2019

Viruses interact with host cells in ways that uniquely reveal a great deal about general aspects of molecular and cellular structure and function. *Molecular and Cellular Biology of Viruses* leads students on an exploration of viruses by supporting engaging and interactive learning. All the major classes of viruses are covered with separate chapters for their replication and expression strategies and chapters for mechanisms such as attachment that are independent of the virus genome type. Specific cases drawn from primary literature foster student engagement. End of chapter questions focus on analysis and interpretation with answers being given at the back of the book. Examples come from the most studied and medically important viruses such as HIV, influenza, and poliovirus. Plant viruses and bacteriophages are also included. There are chapters on the overall effect of viral infection on the host cell. Coverage of the immune system is focused on the interplay between host defenses and viruses with a separate chapter on medical applications such as anti-viral drugs and vaccine development. The final chapter is on virus diversity and evolution incorporating contemporary insights from metagenomic research.

Key selling feature: Readable but rigorous coverage of the molecular and cellular biology of viruses. Molecular mechanisms of all major groups including plant viruses and bacteriophages illustrated by example. Host pathogen interactions at the cellular and molecular level emphasized throughout. Medical implications and consequences included. Quality illustrations available to instructors. Extensive questions and answers for each chapter.

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