

AP Bio - Chapter 20 Reading Guide - Viruses, Bacteria, and Archaea

1. What were the first 2 groups of organisms in the Earth's seas?

Bacteria and archaea

2. What did researchers discover about the effect of SIV on chimpanzees?

It reduces fitness and chimpanzees died earlier

3. How is it believed that SIV entered a human being and mutated into HIV?

4. Define pathogen.

Disease causing agent

5. Define virus.

An obligate intracellular parasite

6. Why are viruses considered nonliving?

It does not have ribosomes or metabolic machinery and it cannot make ATP

7. Describe the major structural components all viruses share.

A viral genome enclosed within a protein coat, or capsid

8. What is a bacteriophage?

Viruses that infect bacteria

9. How is a naked virus different from an enveloped virus?

Naked viruses are non enveloped viruses and an enveloped virus are closed within an envelope

10. What is a viroid and how does it harm plants?

Small RNAs that cause disease in many commercially valuable plants. They harm plants by interfering with normal gene expression in plant cells.

11. List and describe the 5 steps in most viral replication cycles.

A.attachment: proteins on viral particle chemically recognize and lock onto specific receptors at the host cell surface

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