

virology

\_ viral Morphology and classification \_part one

**20 Questions**



**TEST BANK**

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# Viral Morphology and classification

**What is the primary function of viral DNA?**

- A) Protein synthesis
- B) Replication
- C) Cell respiration
- D) Energy production

Answer: B) Replication

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**Who first proposed the term "virus"?**

- A) Louis Pasteur
- B) Walter Reed
- C) Ivanovski
- D) Loeffler

Answer: A) Louis Pasteur

Slide 7

**What is the structural protein shell that encases the viral nucleic acid called?**

- A) Envelope
- B) Capsid
- C) Nucleocapsid
- D) Genome

Answer: B) Capsid

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**What does a virus primarily require to replicate?**

- A) Enzymes
- B) Host cell machinery
- C) Ribosomes
- D) Mitochondria

Answer: B) Host cell machinery

Slide 8

**Which type of nucleic acid can a virus contain?**

- A) Only DNA
- B) Only RNA
- C) Both DNA and RNA
- D) Either DNA or RNA, but never both

Answer: D) Either DNA or RNA, but never both

Slide 8

**What was one of the earliest methods of preventing smallpox?**

- A) Vaccination
- B) Antibiotics
- C) Variolation
- D) Quarantine

Answer: C) Variolation

Slide 4

**Which discovery was made by Ivanovski and Beijerinck?**

- A) Yellow fever virus
- B) Foot-and-mouth disease virus
- C) Tobacco Mosaic Virus
- D) SARS virus

Answer: C) Tobacco Mosaic Virus

Slide 7

**What term describes the complete virus particle?**

- A) Genome
- B) Virion
- C) Capsid
- D) Capsomere

Answer: B) Virion

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**Viruses are classified as:**

- A) Cellular microorganisms
- B) Acellular organisms
- C) Prokaryotes
- D) Eukaryotes

Answer: B) Acellular organisms

Slide 5

**What is the typical size range of viruses?**

- A) 1-10 micrometers
- B) 20-450 nanometers
- C) 1000-2000 nanometers
- D) 0.1-1 millimeters

Answer: B) 20-450 nanometers

Slide 8

**What is the main reason viral infections are harder to treat than bacterial infections?**

- A) They are smaller in size
- B) They have complex structures
- C) They live inside host cells
- D) They replicate faster than bacteria

Answer: C) They live inside host cells

Slide 9

**What is a "broad spectrum virus"?**

- A) A virus that infects a single species
- B) A virus that infects multiple species
- C) A virus that has a complex capsid
- D) A virus with multiple envelopes

Answer: B) A virus that infects multiple species

Slide 10

**What is the term for virus-encoded glycoproteins projecting from the envelope?**

- A) Capsids
- B) Peplomers
- C) Nucleocapsids
- D) Ribosomes

Answer: B) Peplomers

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**What is the primary role of the viral envelope?**

- A) Protect the host cell
- B) Produce viral proteins
- C) Aid in viral attachment and entry
- D) Help in the viral replication

Answer: C) Aid in viral attachment and entry

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**How do enveloped viruses typically acquire their envelope?**

- A) Synthesizing it from nucleic acids
- B) Stealing it from the host cell membrane
- C) Creating it from viral proteins
- D) Forming it during replication

Answer: B) Stealing it from the host cell membrane

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**Which of the following viruses causes foot-and-mouth disease in cattle?**

- A) Herpesvirus
- B) Influenza virus
- C) Enterovirus
- D) Tobacco Mosaic Virus

Answer: C) Enterovirus

**(Don't worry, this is extra information )**

**What term refers to the RNA that can function directly as mRNA in a host cell?**

- A) Positive-sense RNA
- B) Negative-sense RNA
- C) Double-stranded RNA
- D) Single-stranded DNA

Answer: A) Positive-sense RNA

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**Which virus was discovered by Walter Reed?**

- A) Smallpox virus
- B) Ebola virus
- C) Yellow fever virus
- D) HIV

Answer: C) Yellow fever virus

Slide 7

**What component does a non-enveloped virus lack compared to an enveloped virus?**

- A) Capsid
- B) Nucleic acid
- C) Lipid-containing membrane
- D) Glycoproteins

Answer: C) Lipid-containing membrane

Slide 16

**How are viral families named?**

- A) Based on host range
- B) Based on replication mechanism
- C) Based on the type of disease they cause
- "D) Using the suffix "-viridae

Answer: D) Using the suffix "-viridae

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