

Study guide for Topic 5: Viruses, prions (& other infectious particles)

A. Viruses/infectious particles – basics

B. Viruses (as well as viroids, prions) are microbes that aren't considered truly living.

C. Virus requires host to replicate (including host ribosomes, etc.).

D. Viruses contain DNA or RNA (not both).

E. Not all viruses are necessarily harmful (though all considered to be parasitic with host).

Don't produce their own energy, rely on host cell for protein and nucleic acid production.

1. Describe the characteristics used to classify/categorize viruses, and key differences between different groups of viruses.

- General morphology (structure): (based on capsid architecture)
- Enveloped or not
- Host specificity

2. Compare and contrast viruses and bacteria (structure, replication, characteristics). [Comprehension]

	Typical Bacteria	Viruses
Intracellular parasite	No	Yes
Plasma membrane	Yes	no
Binary fission	Yes	No
Pass through bacteriological filters	No	Yes
Possess DNA and RNA	Yes	No
ATP generating mechanism	Yes	No
Ribosomes	Yes	No
Sensitive to antibiotics	Yes	No
Sensitive to interferon	No	Yes

1.

3. List and describe the components of all viruses.

- Some sort of nucleic acid DNA or RNA
- Contain a protein coat surrounding nucleic acid

Viruses And Prions Study Guide

Michael Hoelscher



Viruses And Prions Study Guide:

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