

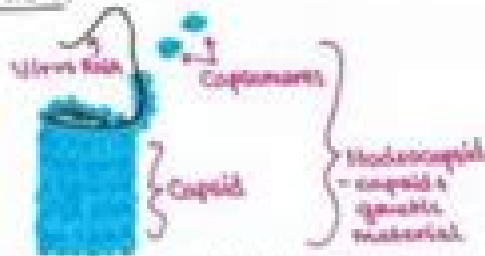
# CHARACTERISTICS OF VIRUSES

## Genome



## Structure

### Helical



- Forms a hollow rigid rod w/ capsomeres on the outside and nucleic acid genome on the inside
- longer genome = longer rod

### Icosahedral



- Overall shape of icosahedral virus depends on the orientation of the capsomeres
- Most efficient arrangement of capsomeres is in a closed shell

### Complex

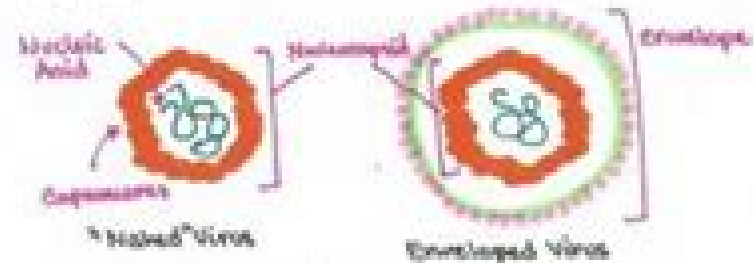
Ex. T4



- Can contain several parts w/ separate shapes and symmetries
- Bacterial viruses can often contain complicated structures
- Icosahedral heads and helical tails

## Envelope

- is not always present but virus can have it on its surface
- Viruses w/o envelope (just nucleocapsid) are called "naked" viruses



- Envelope contains membrane proteins surrounding nucleocapsid
- Lipid bilayer w/ embedded proteins
  - Proteins are often useful for host membrane recognition and attachment
  - Usually the envelope proteins are inserted into the plasma membrane during virus biosynthesis
  - Virus picks up envelope as it leaves the cell

## Viral Proteins

**Ligases** - makes hole in cell wall for virus entry and for cell lysis

**Nucleic acid polymerases** - make viral pro genetic material after entry into host cell  
Ex. reverse transcriptase

**Neuraminidases** - enzymes that cleave glycosidic bonds and allow liberation of viruses from cell  
Ex. all influenza viruses

# Viruses Biology Study Guide

**Peter A. Rosenbaum**



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