

# OVERVIEW OF VIRAL INFECTIONS

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## INTRODUCTION

- Viruses are smallest (unicellular) obligate intracellular infective agent. They have no metabolic activity outside the host cells.
- Viruses comprises of -
  - (i) Envelope
  - (ii) Protein coat (capsid)
  - (iii) Nucleic acid (DNA or RNA)

### ENVELOPE

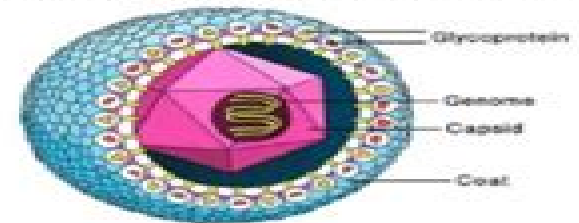
- It surrounds nucleocapsid and is lipoprotein in nature.
- Lipid part is from host cell and protein part is bacterial coded, subunit called **Peplomere**.
- This peplomere are antigenic and bind to specific receptors on host cell.

### PROTEIN COAT - CAPSID

It is composed of number of repeated subunits called as **Capsomere**.

#### Functions of capsid:-

- Protects the nucleic acid core.
- In non enveloped virus, role in viral replication by attaching to specific receptor of host cell
- It is antigenic and specific for each virus.



## Nucleic acid classification of viruses



# Study Guide Viral Infections

**Anna P. Ciulla, Georganne K. Buescher**



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