

# OVERVIEW OF VIRAL INFECTIONS

- Anurag Kumar
- Anushka Gupta
- Ashi Tripathi
- Chaturvedi Aastha
- Deepak Raj

- Diksha Jha
- Fahad Khan
- Fatima Bushra
- Ganesh Dutta
- Gauri Middha

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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**.

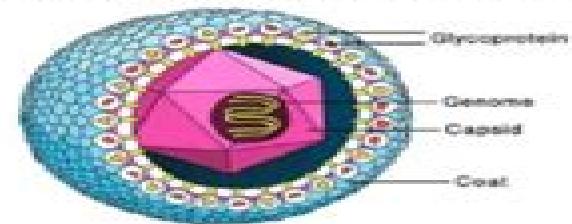
- This peplomere are antigenic and bind to specific receptors on host cell.

### 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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