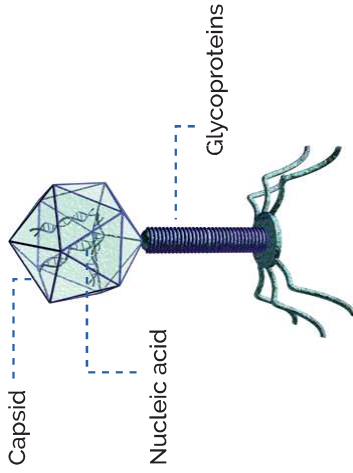




### Viruses



**Viruses are NOT free living – they MUST live inside another living cell/organism**

**Capsid**

Double lipid layer holding the cells genetic material.

**Glycoproteins**

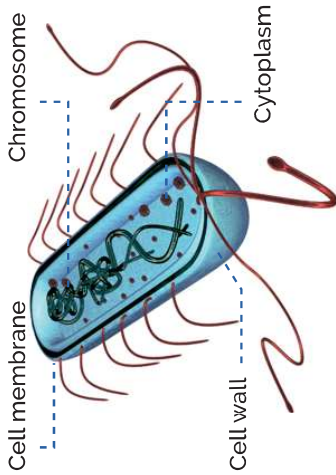
These serve 2 purposes:

- 1 Anchor the virus to the host cell.
- 2 Transport genetic material from the virus to the host cell.

**Nucleic acid**

Either DNA or RNA material, but viruses rarely contain both. Most viruses contain RNA material.

### Bacteria



**Bacteria are free living and are found everywhere**

**Chromosome:**

Genetic material (DNA) of the cell.

**Cell wall:**

The cell wall is made of peptidoglycan and maintains the overall shape of a bacterial cell.

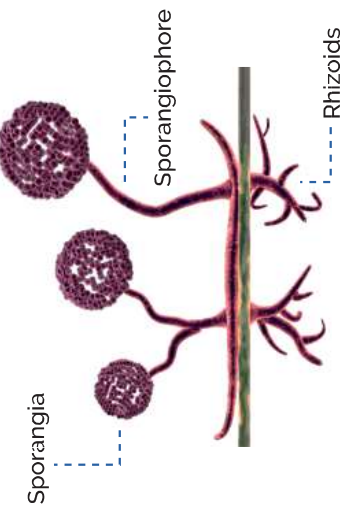
**Cell membrane:**

Lining the inside of the cell wall providing a boundary for the contents of the cell and a barrier to substances entering and leaving.

**Cytoplasm:**

Jelly like substance inside of the cell holding the contents.

### Fungi



**Sporangia:**

Spore producing body.

**Sporangiophore:**

Filamentous stalk on which the sporangium forms.

**Rhizoids:**

The sub-surface hyphae are specialized for food absorption.

## Microbe Size

