

Viruses

Size:

0.015-0.2 μm

Important Characteristics:

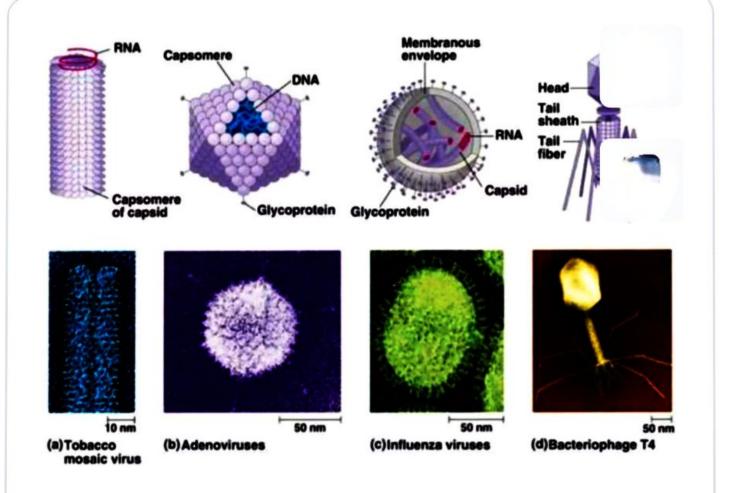
- Do not grow on artificial media
- Obligate intracellular parasites
- Electron microscopy required to observe

Practical significance:

- Cause diseases in humans animals & plants
- Also infect microorganisms like bacteria

Examples:

Rabies virus, Polio virus, Influenza virus, HIV, Corona virus, T-even bacteriophage, etc.



Fungi (Yeasts)

Size:

5.0-10.0 μm

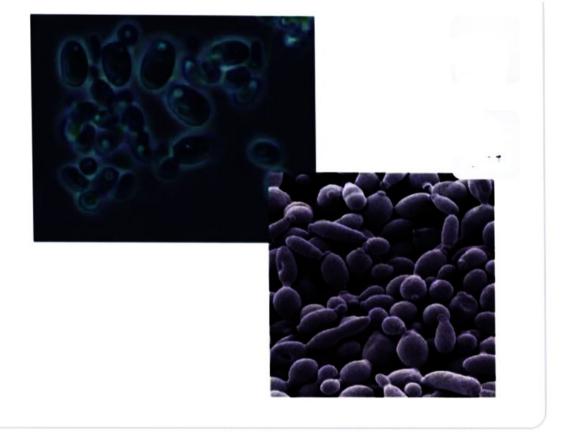
Important Characteristics:

- Eukaryotic & Non-motile
- Unicellular
- · Grow on artificial laboratory media
- Reproduction asexual (cell division/ budding) or sexual
- Have Rigid Cell wall Made up of Chitin, Cellulose

Practical significance:

- Some cause diseases like Athlet's foot, thrush
- some are used as food supplements
- Manufacture of alcoholic beverages

Examples: Saccharomyces Cerevisae, etc



Fungi (Molds)

Size:

2.0-10.0 µm by several mm some are visible with naked

Important Characteristics:

- Eukaryotic & Non-motile
- Multicellular
- • Many distinctive structural features (Filamentous str showing Vegetative mycellium & Aerial mycellium
- · Cultivated on artificial laboratory media
- · Have Rigid Cell wall Made up of Chitin, Cellulose
- Reproduction asexual or sexual

Practical significance:

- Decomposition of many materials
- Industrial production of many chemicals like antibiotics
- Can cause diseases, penicilliosis, otomycosis.

Examples:Penicillium notatum, Aspergillus niger, etc.

