

# Eukaryotes, Prokaryotes and Viruses

Every living organism falls into one of two groups: eukaryotes or prokaryotes. Cellular structure determines which group an organism belongs to.

## I- Prokaryote definition

Prokaryotes are unicellular organisms that lack membrane-bound structures, the most noteworthy of which is the nucleus. Prokaryotic cells tend to be small, simple cells, measuring around 0.1-5  $\mu\text{m}$  in diameter.

### Some Prokaryotic cell features

- **Nucleoid:** A central region of the cell that contains its DNA.
- **Ribosome:** Ribosomes are responsible for protein synthesis.
- **Cell wall:** The cell wall provides structure and protection from the outside environment. Most bacteria have a rigid cell wall made from carbohydrates and proteins.
- **Cell membrane:** Every prokaryote has a cell membrane, also known as the plasma membrane, which separates the cell from the outside environment.
- **Capsule:** Some bacteria have a layer of carbohydrates that surrounds the cell wall called the capsule. The capsule helps the bacterium attach to surfaces.
- **Flagella:** Flagella are thin, tail-like structures that assist in movement.

# **Study Guide Viruses And Prokaryotes Answers**

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