

in the human body ranges from diameter of $1 \mu\text{m}$ to $100 \mu\text{m}$. Mycoplasma is the smallest cell having size of about $0.1 \mu\text{m}$.

Number

Organism is classified into two types -

- i) Unicellular - One cell.
- ii) Multicellular - Many cells.

• Classification of the cell -

i) Prokaryotic cells - The cell don't have nucleus and other cell organelles. They are primitive and incomplete form of cell. eg. Bacterial cell.

ii) Eukaryotic cells - These are more developed cells. They have well defined nuclei with nuclear membrane and nucleolus.

* They have nucleus, well defined membrane bound organelles such as mitochondria, lysosome, endoplasmic reticulum, etc. These cells are found in animals, plants and fungi etc.

* Difference between Prokaryotic and Eukaryotic cell.

S.No.	Features	Eukaryotic cell	Prokaryotic cell
i)	Size	Generally large ($5-100 \mu\text{m}$)	Generally small ($1-10 \mu\text{m}$)
ii)	Nucleus	They have well defined nucleus	Well defined nucleus absent
iii)	Ribosomes	70S and 80S type	70S type
iv)	Cell wall	Present in plant and fungal cell	It is made up of peptidoglycan
v)	Cell organelle	Membrane bound cell organelles are present	Membrane bound cells are absent
vi)	Chromosomes	True chromosomes are present in which histone protein is associated with DNA.	Naked chromosomes the lack histone protein

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Edwin Garrigues Boring



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