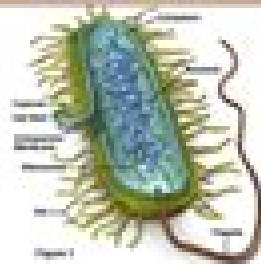


- All living things are made up of cells.
- Cell is a basic unit of life in which all metabolic processes take place.
- New cells are produced from pre existing cell through cell division.
- Each cell carries heritable genetic information that can be passed to the daughter cells during the cell division.

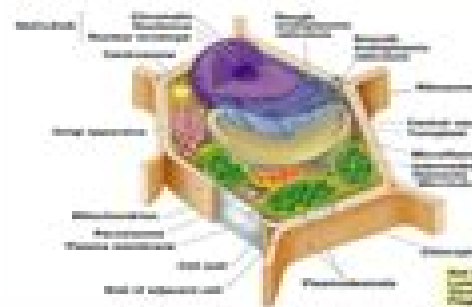


## PROKARYOTES

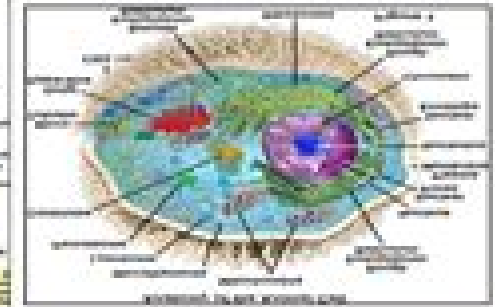


## EUKARYOTES

## PLANT CELL



## ANIMAL CELL

**SIMILARITIES:**

Both are surrounded by a plasma membrane

Both contain chromosomes / DNA

Both have (free)ribosomes- synthesize proteins according to instructions from the gene/DNA

**DIFFERENCE BETWEEN PROKARYOTES AND EUKARYOTES**

## PROKARYOTES

1. The size of cell is small (0.5-10  $\mu\text{m}$  in diameter)
2. Cell division is mostly by binary fission
3. DNA lies free in the cytoplasm
4. DNA is circular
5. DNA associated protein is not histone
6. Membrane bound organelles are absent
7. Cell wall is made up of peptidoglycan
8. Flagella is simple, lacking microtubules arrangement
9. Ribosomes are smaller (70S)

## EUKARYOTES

- The size of cell is large (10-100  $\mu\text{m}$  in diameter)
- Cell division is by Mitosis and meiosis
- DNA is contained in the nucleus
- DNA is linear
- DNA associated protein is histone
- Membrane bound organelles are present
- Cell wall is made up of cellulose (plant) or chitin (fungi)
- Flagella is complex, with "9+2" arrangement of microtubules
- Ribosomes are larger (80S)

**SIMILARITIES AND DIFFERENCE BETWEEN PLANT CELL AND ANIMAL CELL**

## PLANT CELL

## ANIMAL CELL

**Both have :** Membrane bound organelles: mitochondria, rough endoplasmic reticulum, smooth endoplasmic reticulum, Golgi Body

- Have chloroplast
- Have Central vacuole and tonoplast
- Have plasmodesmata
- Have Food stored as starch

- Have lysosome
- Have centriole
- Have flagella
- Have Food stored as glycogen

# Biology Chapter2 Understanding Concepts

**Lei Shi**



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