

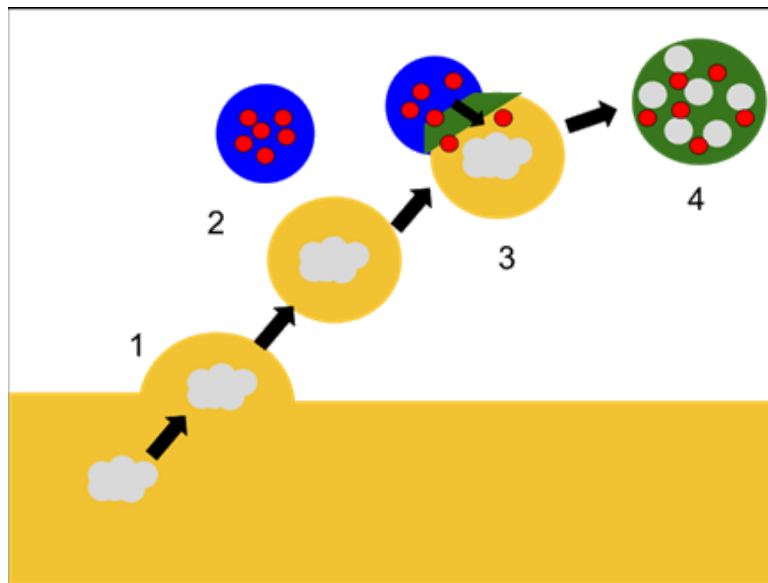
## FlexiPrep

### Cell Organelles: Cell Organelles and Their Functions, Lysosomes (For CBSE, ICSE, IAS, NET, NRA 2022)

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#### Lysosomes

- It is a tiny, single membrane-bound organelles filled with digestive enzymes.
- It is also called the suicidal bag since it helps in digesting dead and damaged cells. Also, it removes wastes.

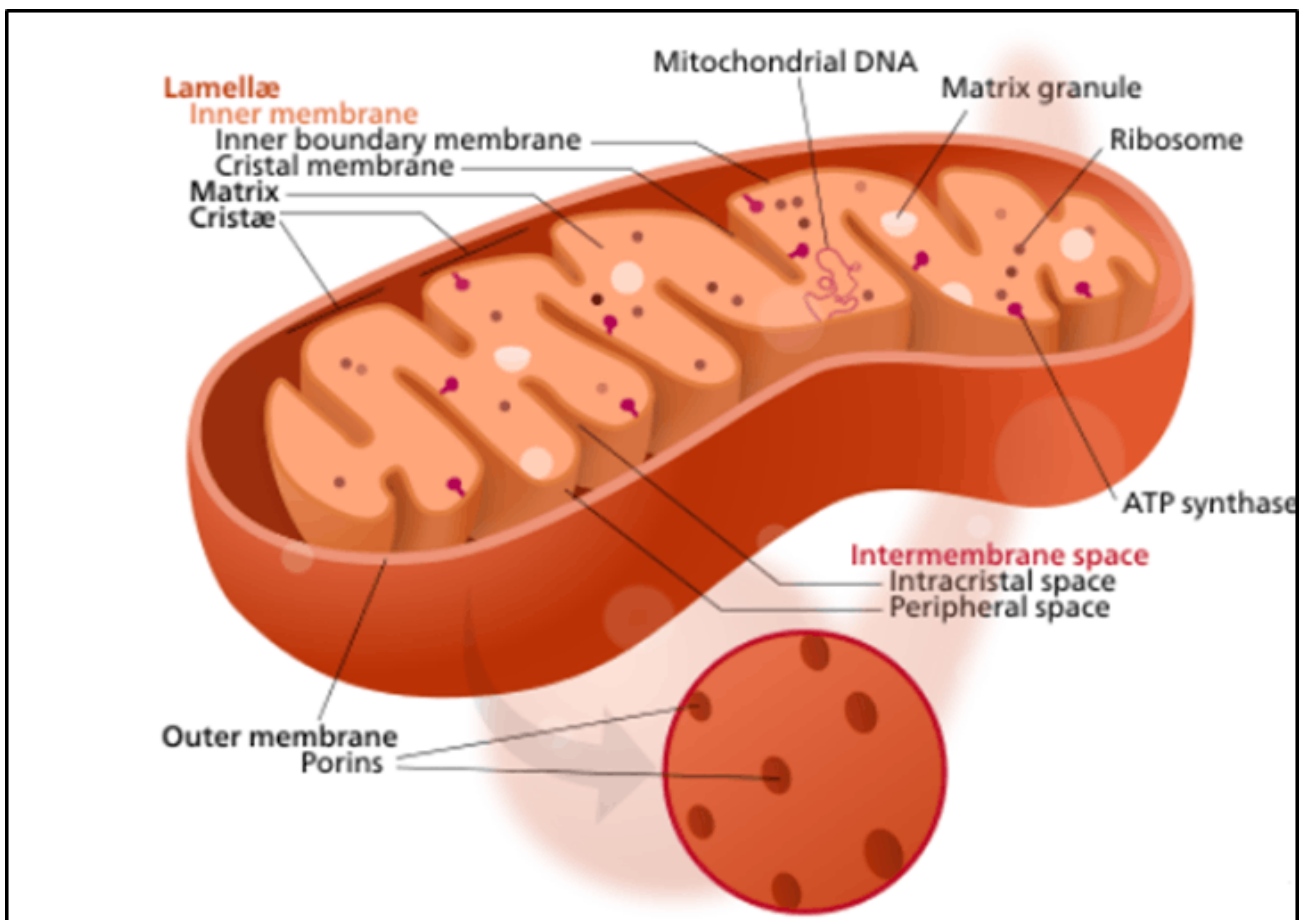


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#### Mitochondria

- It is an oval shaped membrane-bound organelle.
- Also known as the “Powerhouse of The Cell.”

- It plays a vital role in the conversion of energy from food into energy for biological processes.



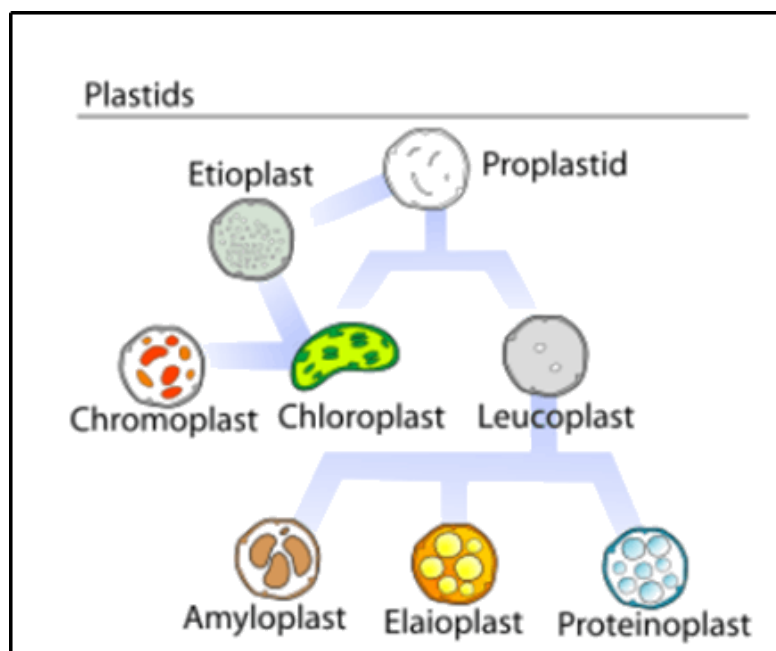
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## Nucleus

- It is the largest double membrane-bound organelles containing all the genetic information of the cell.
- Some of the important functions performed are controlling activity of the cell, helps in cell division and controls the hereditary characters.

## Plastids

- These are Double membrane-bound organelles.
- The three types existing are namely Leucoplast (Colorless plastids) , Chromoplast (Blue, Red and Yellow colour plastids) and Chloroplast (Green colour plastids) .
- Plastids help in the process of photosynthesis and pollination.

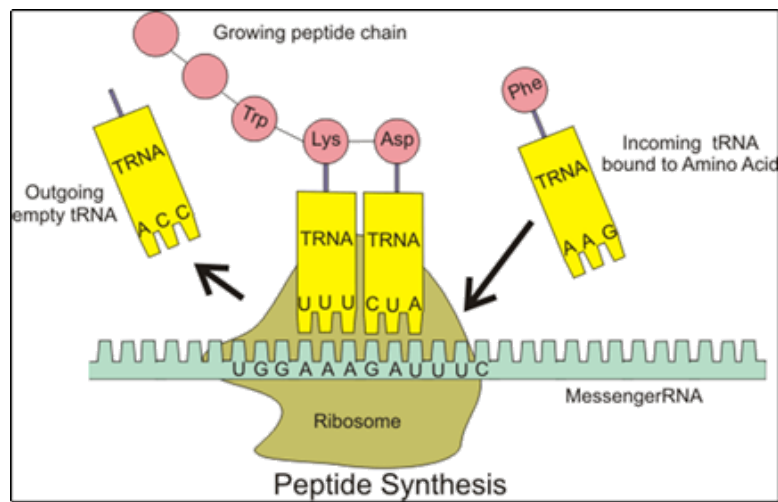


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## Ribosomes

- These are the minute particles consisting of RNA and associated proteins found in large numbers in the cytoplasm of living cells.

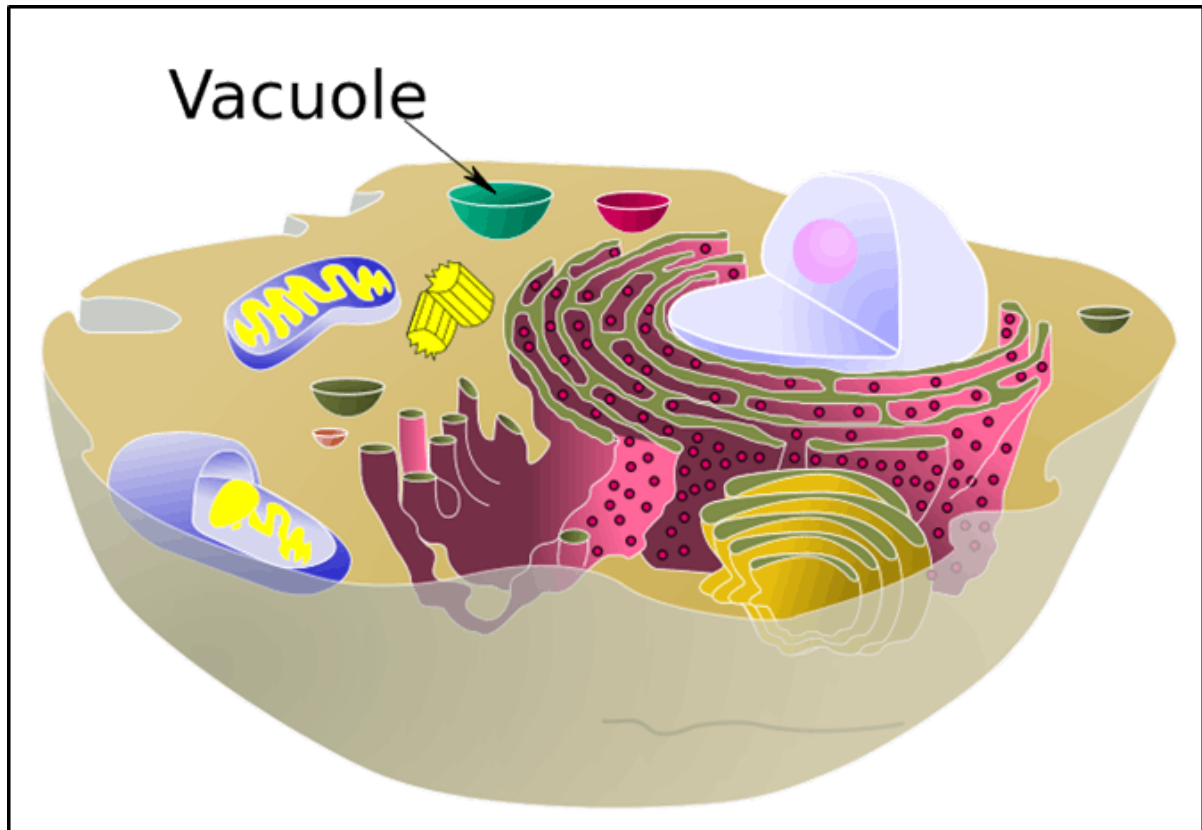
- One of the important functions performed are binding messenger RNA along with the transfer RNA to synthesize polypeptides and proteins.



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## Vacuoles

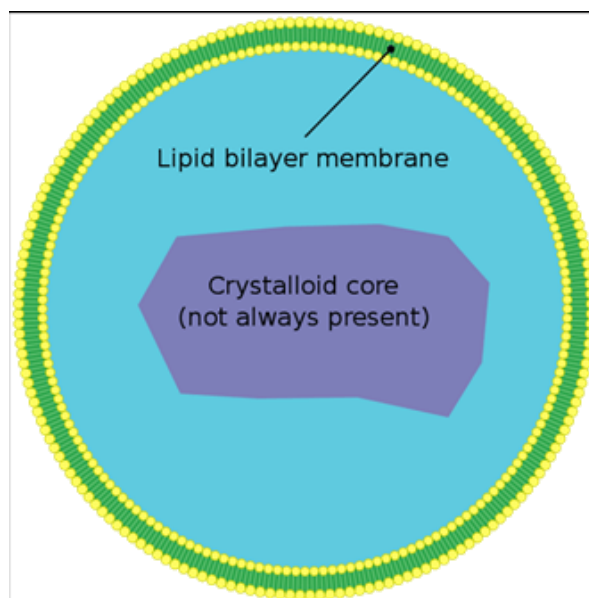
- These are the membrane-bound, fluid-filled organelle found within the cytoplasm.
- One of the important functions performed are providing shape and rigidity to the plant cell.



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### **Peroxisome**

- It is a membrane-bound cellular organelle present in the cytoplasm which contains the reducing enzyme.
- Important functions include metabolism of lipids and catabolism of long-chain fatty acids.



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## FAQs

Q. Why Lysosomes are called the suicidal bags?

Answer: Lysosomes are called the suicidal bags due to their ability of breaking down or digesting all the wastes, dead and damaged cells.

Q. Which cell organelle is also known as the powerhouse of the cell?

Answer: Due to its ability of carrying out the cellular respiration and generate the energy molecules called ATP or Adenosine Triphosphate, Mitochondria is called the powerhouse of the cell.

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