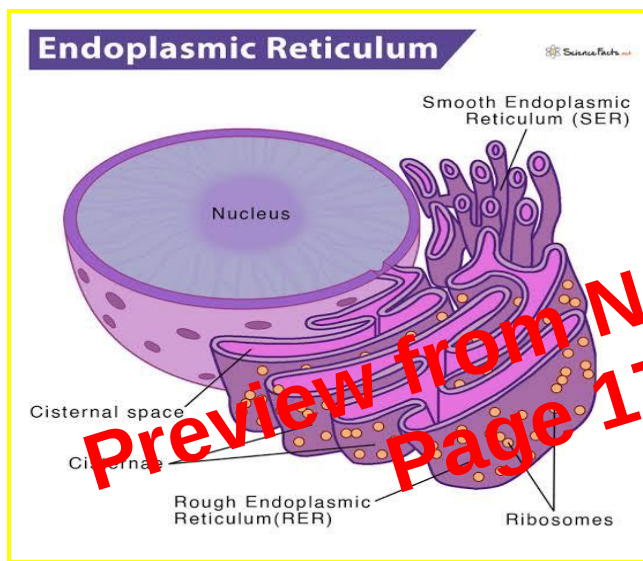


>> It plays crucial role in detoxifying many poisons and drugs from our liver cells.

Since both lipids and Protein helps in building of Cell membrane. So Endoplasmic reticulum helps in building the cell membrane. This process is known as **membrane biogenesis**.



2.Golgi Apparatus~

>> It was discovered by Camillo Golgi.

>> It is system of membrane bound vesicles(flattened sacs) arranged approximately parallel to each other in stacks called cisternae

>> These membranes have connections with the membranes of ER(Endoplasmic reticulum) and

- >> They are kind of waste disposal from cell.
- >> These help to keep cells clean by digesting any foreign material as well as worn out cell organelles.
- >> Foreign materials entering the cell, such as bacteria or food, as well as old organelles end up in Lysosomes, which break complex cell into simple substances.
- >> Lysosomes are able to do this because they contain powerful digestive enzymes capable of breaking down all organic material
- >> When cell gets damaged, lysosomes may burst and the enzymes digest their own cell. So they are known as suicide bags of cells.

4. Mitochondria~

- >> Mitochondria is known as powerhouse of Cell.
- >> It had two membrane coverings
- >> The outer membrane is porous while the inner membrane is deeply folded.
- >> These folds increase the surface area for ATP(adenosine triphosphate) -generating chemical reactions.
- >> The energy required for various chemical activities needed for life is released by mitochondria in the form of ATP.

>> In leucoplast many materials such as starch, oils and granules are stored.

>> The internal organisation of chloroplast consists of numerous membrane layers embedded in material called the stroma. These are similar to mitochondria in external structure.

>> Like the mitochondria plastid also have their own DNA and Protein.

6. Vacuoles~

>> These are storage sacs for solid and liquid cells.

>> Animals have small vacuoles as compared to plants.

>> The central vacuole of some plant cells may occupy 50% to 90% cell volume.

>> Vacuoles provide rigidity and turgidity to plant cell.

>> Substances like amino acids, sugars, various organic acids and some proteins which are importance in the life of plant cells are stored in vacuole.

>> In Amoeba the food vacuoles contains the food items that amoeba had consumed.

>> Specialised vacuoles alps play important roles in excessive excess water and some waste from the cell of unicellular organisms.

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