

- **Palisade mesophyll cells:** special cells found in a leaf that absorb light for photosynthesis.
- **Nerve cells:** special cells in the nervous system of animals that transmit impulses.
- **Red blood cells:** special cells in the blood of vertebrates that transport oxygen.
- **Sperm and egg cells:** reproductive sex cells in organisms used in sexual reproduction of organisms.

## THE PARTS OF A CELL:

### Cell membrane:

- outermost structure of a cell.
- protects the cell against injuries of substances that may harm or kill it.
- controls the passage of substances going out or into the cell.
- separates the cell from its environment.

**Protoplasm:** all materials included by the cell membrane. It is divided into two parts:

1. **Nucleoplasm** (the nucleus).
2. **Cytoplasm** (the material found between the cell and nuclear membranes).

### Nucleus:

- Structure: contains DNA (genes, chromosomes). It is surrounded by the nuclear membrane (with large pores).

- Function: controls everything that occurs inside the cell.

### Cytoplasm:

- yellowish material in which all life processes occur.
- found between the cell and nuclear membrane.

## CYTOPLASMIC INCLUSIONS (ORGANELLES):

### Endoplasmic reticulum (ER):

- Structure: a network of interconnected membranes.
- Function: transports substances all over the cell.

### Ribosomes:

- Structure: tiny granules (spheres) found in the cytoplasm.
- Function: make proteins for the cell.

### Golgi apparatus (Golgi body):

- Structure: set of flat sacs, one on top of another.
- Function: absorbs and packages substances for being exported out of the cell.

### Lysosome:

- Structure: tiny spherical body filled with fluids.
- Function: digests food particles.

### Mitochondrion:

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**Yicheng Fang**



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