

- **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:

X Biology Chapter Notes

Jessica J Manson



X Biology Chapter Notes:

X Biology Chapter Notes Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**X Biology Chapter Notes**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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