

- **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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Table of Contents X Biology Chapter Notes

1. Understanding the eBook X Biology Chapter Notes
 - The Rise of Digital Reading X Biology Chapter Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying X Biology Chapter Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an X Biology Chapter Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from X Biology Chapter Notes
 - Personalized Recommendations
 - X Biology Chapter Notes User Reviews and Ratings
 - X Biology Chapter Notes and Bestseller Lists
5. Accessing X Biology Chapter Notes Free and Paid eBooks
 - X Biology Chapter Notes Public Domain eBooks
 - X Biology Chapter Notes eBook Subscription Services
 - X Biology Chapter Notes Budget-Friendly Options

6. Navigating X Biology Chapter Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - X Biology Chapter Notes Compatibility with Devices
 - X Biology Chapter Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of X Biology Chapter Notes
 - Highlighting and Note-Taking X Biology Chapter Notes
 - Interactive Elements X Biology Chapter Notes
8. Staying Engaged with X Biology Chapter Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers X Biology Chapter Notes
9. Balancing eBooks and Physical Books X Biology Chapter Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection X Biology Chapter Notes
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine X Biology Chapter Notes
 - Setting Reading Goals X Biology Chapter Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of X Biology Chapter Notes
 - Fact-Checking eBook Content of X Biology Chapter Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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