

The Human Cell

Cells: The smallest functional units of the body, grouped together to form tissues.
Tissues: Have specialised function (e.g. blood, muscle and bone), tissues group to form organs.
Organs: Are grouped together to form systems.
Systems: Perform functions that maintain homeostasis.

Simple Cell

A cell consists of a plasma/cell membrane inside which there are a number of organelles floating in a watery fluid called cytoplasm. Organelles are small structures with highly specialized functions.

Nucleus

- Every cell has one apart from mature erythrocytes (red blood cells).
- The largest organelle.
- It contains the information genes which determines cellular structure and function.

Plasma/Cell Membrane

- Semi permeable membrane that surrounds the cell.
- 2 layers of phospholipids (fatty substance)
- Only small particles such as water and oxygen can pass in and out of the cell.

Endoplasmic Reticulum

- Interconnecting membranous canals in the cytoplasm.
- 2 types: Rough and Smooth.
- They provide a site for synthesis of proteins that are exported from the cells to be used in other cells within the body.

Mitochondria

- Sausage shaped structures, POWERHOUSE of the cell, they produce energy.
- Involved in aerobic respiration, the process in which chemical energy is available within the cell.

Cytoplasm

- Fluid within the plasma/cell membrane.
- It surrounds and supports the other structures of the cells interior.

Ribosomes

- Tiny granules, help with the production of proteins to be used within the cell.

Golgi Apparatus

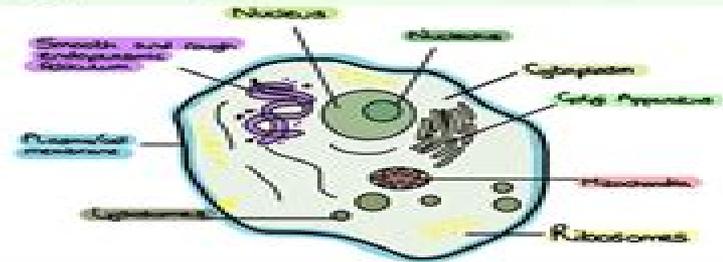
- Stacks of folded and flattened membranous sacs.
- Responsible for exporting proteins across the plasma/cell membrane.

Lysosomes

- One type of secretory vesicles formed from the Golgi Apparatus.
- They break down food into particles for the rest of the cell can use, as well as breaking down old cells.
- "CLEAN UP CREWS"

Proteasomes

- Found in the nucleus.
- Produces and assembles ribosomes.



Cell Function

For a cell to successfully carry out its function, every cell in the body must be supplied with:

- **Oxygen:** Essential for life! Chemical activity within the cells require oxygen.
- **Nutrition:** Cells require food or nutrition! This is in the form of sugar, fats, proteins, vitamins and minerals.
- **Water:** The medium for all chemical activity within the body.



The transfer of substances into and out of the cell is required for its survival. The methods used to transport substances across the cell membrane are

Diffusion and Osmosis

This is influenced by certain physical processes and properties of the semi-permeable membrane.

Diffusion

This is the movement of dissolved substances from an area of high concentration to an area of low concentration, down the concentration gradient until equilibrium is reached on both sides of the membrane.



Osmosis

This is the net movement of water across a semi-permeable membrane from an area of low solute concentration to an area of high solute concentration, until equilibrium is reached on both sides of the membrane.



Cell Anatomy Study Guide Answers

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