

• They also have the surface layer of cells to maintain the shape that the germ takes for division.

- Large surface area
- Thin walls
- Good blood supply

increase surface area so that digested food is absorbed much more quickly into the blood. Very good blood supply to avoid quick absorption.

Osmosis is the movement of water molecules across a partially permeable membrane from a area of high water concentration to an area of low water concentration.

likewise substances from a dilute to a concentrated solution (against a concentration gradient).

- Next, four cells absorb mineral ions from dilute solutions in the soil by active transport.
- Glucose can be absorbed out of the gut and kidney tubules against a concentration gradient by active transport.
- Cells throughout their, sticky mucus because active transport system in their mucus cells did not work properly.

- 1) Water moves into the cell by osmosis.
- 2) The vacuole swells.
- 3) The cytoplasm is pressed against the cell wall.
- 4) The cell becomes rigid.
- 5) The leaves and stems become rigid.

Hypertonic solution: (cell will swell and possibly burst).

Hypotonic solution: (water moves out of the cell and shrinks).

Hypertonic solution (loses water and becomes flaccid), as the plant wilts, if kept in a hypertonic solution in a laboratory a lot of water leaves the cell. The vacuole and cytoplasm shrink, and the membrane pulls away from the cell wall. This is referred to as **plasmolysis**.

Light Microscope	Electron Microscope
Uses a beam of light to focus on image	Uses a beam of electrons to focus on image
Can magnify up to 2000 times (about 400 times)	Can magnify object 200,000 times
Can be used to view living objects	Cannot be used for living objects
Are relatively cheap and easy to transport	Are expensive and have to be kept in special conditions

- (4) Cut up pencils into identical cylinders and get some beakers with different sugar solutions. One should be pure water, another should be concentrated (saturated). Then a few others with concentrations in between (0.5%, 2%, 4%, 6%, 8%, 10%).
- (5) Measure mass of cylinders, then put one in each beaker for 10 hours.
- (6) Take them out and dry with paper towels and measure mass again.
- (7) If cylinders increase in mass, then water has been drawn in by osmosis. If water has been drawn out, then they will have decreased in mass.

Independent variable: concentration of sugar solutions.
Dependent variable: change mass.

- 1) Add a drop of water to a clean slide.
- 2) Cut up onion and separate into layers. Use tweezers to peel off epidermal tissue.
- 3) Using tweezers place tissue into the water on the slide.
- 4) Add a drop of iodine solution. (Stains are used to highlight objects in a cell by adding colour to them).
- 5) Place cover slip on top.



- 1) Clip the slide onto stage.
- 2) Select lowest-powered objective lens.
- 3) Use coarse adjustment knob to move stage up to just below the objective lens.
- 4) Look down the eyepiece.
- 5) Adjust focus with fine adjustment knob, until a clear image is formed.
- 6) To see the slide with greater magnification, swap to a higher-powered objective lens, and refocus.



Biology-T1
Cell Biology

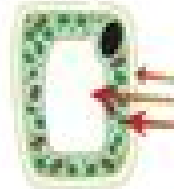
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- Long tail/dreadnail head to swim.
- Many mitochondria for energy
- Digestive enzymes to break down the egg

- Carries electrical signals from one part of the body to another
- Long cells and branched connections to connect nerve cells throughout the body

Prokaryotic: animals/plants.
Prokaryotic: single-celled organisms (bacteria).

- Nucleus-contains genetic material/controls activities in a cell.
- Cytoplasm-chemical reactions occur (contains enzymes that controls these reactions)
- Cell membrane-controls what goes in and out of the cell.
- Mitochondria-reactions of aerobic respiration take place.
- Ribosomes-where protein synthesis takes place.



- Chloroplasts contain chlorophyll, absorbing light for photosynthesis
- Permanent vacuole contains cell sap
- Cell wall supports the cell



Rate of diffusion is affected by:

- Concentration
- Temperature
- Surface area

- Diffusion of oxygen and glucose into cells of the body from the bloodstream for respiration.
- Diffusion of oxygen and carbon dioxide in opposite directions in the lungs (gas exchange).
- Diffusion of simple sugars and amino acids from the gut through cell membranes.
- Diffusion of carbon dioxide into actively photosynthesising plant cells.

- Long hair to provide a large surface area to absorb mineral ions and water from the soil.
- Many mitochondria to transfer energy needed for active transport of mineral ions into the cell.

- Cells are long so they have space to contract.
- Contains lots of mitochondria - energy for contraction.

Readynotes For Biology

JE Gale



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