

4.1.1 Cell structure, Prokaryotic cells



Studying cells, Microscopy

Light microscopes use light and lenses to magnify. Individual cells can be seen, as well as large organelles e.g. Nucleus.

Electron microscopes (transmission, scanning electron microscope) use electrons, have a higher magnification and higher resolution.

Magnification calculation

Magnification = $\frac{\text{Image size}}{\text{Actual size}}$

10 μm with a 100x magnification = 1000 μm or 1 mm = 1000 μm

Before Resolution: the ability to distinguish between two points which are close together (resolution)

Before Magnification: increasing the size of an object.

Viewing a specimen: use a slide to provide contrast.

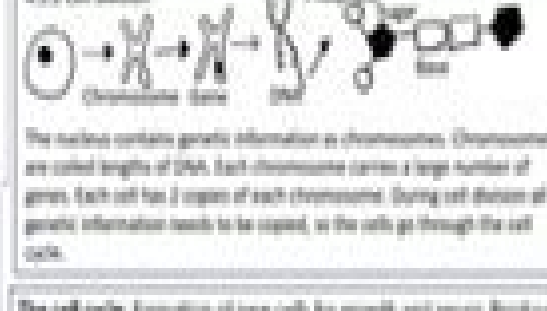
Staining a specimen: Stains provide, both of the above, by absorbing or reflecting all from direct illumination, include magnification.

Blue (Methylene blue) stains, Green (Gram stain), Brown (Gram stain), Purple (Gram stain).

Cell differentiation: Cells specialise at an early stage of embryo development, by turning genes off and on.

Cells which are not specialised are called stem cells and they are found in early stage embryos and some fully developed organs.

4.1.2 Cell division

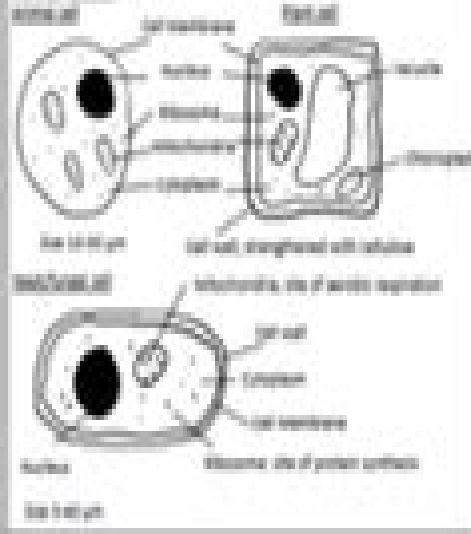


The cell cycle



The cell cycle: formation of new cells for growth and repair. Produces identical daughter cells with the same number of chromosomes. There are 3 stages: Growth and replication of organelles, Mitosis and cell division.

4.1.3 Cells, the nucleus



Specialised cells Biology Trilogy paper 1 Higher page 1

| Cells | Name | Function | Adaptation |
|-------|---|--|---|
| | Sperm cell | fertilise the egg | tail for genetic info, lots of mitochondria to release energy |
| | Neuron | carry electrical impulses | long strand of cytoplasm, branched to connect to other neurones |
| | Root hair cell (epidermal cell in a plant cell) | take up water and mineral ions (osmosis, diffusion and active transport) | large surface area |
| | Muscle cell | Contract | Contains lots of mitochondria to release energy |
| | Xylem | transport water and minerals up the plant | dead, hollow tube, transpiration stream |
| | Phloem | transport sugars around the plant | long, living tubes joined end to end |



4.1.2 Transport in and out of cells

Three methods of transport:

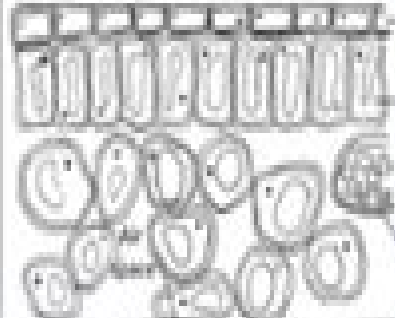
Diffusion: substances move from an area of high concentration to an area of low concentration. It is random and passive (does not require energy).

Osmosis is the water vapour moving from the large to the small and carbon dioxide moving from the small to the large, and in the movement of water moving from the small to the large.

Active transport: The movement of a substance against a concentration gradient, from high to low. Requires energy and a carrier protein.

Features of a good exchange surface:

- Good blood supply
- Short diffusion pathways (cells close together)
- Large surface area to volume ratio
- Good ventilation (air flow)
- Good temperature control
- Good pH control
- Good oxygen control
- Good carbon dioxide control
- Good water control
- Good mineral ion control
- Good vitamin control
- Good hormone control
- Good enzyme control
- Good protein control
- Good lipid control
- Good carbohydrate control
- Good nucleic acid control
- Good cell wall control
- Good cell membrane control
- Good cell organelle control
- Good cell division control
- Good cell death control
- Good cell communication control
- Good cell signalling control
- Good cell adhesion control
- Good cell junction control
- Good cell polarity control
- Good cell motility control
- Good cell growth control
- Good cell differentiation control
- Good cell specialization control
- Good cell adaptation control
- Good cell survival control
- Good cell reproduction control
- Good cell development control
- Good cell maturation control
- Good cell aging control
- Good cell death control



Leaf tissues and organs

- Water uptake (xylem)
- Upper epidermis (transparent)
- Palisade mesophyll (layer contains chloroplasts for photosynthesis)
- Spongy mesophyll (contains air spaces for gas exchange)
- Vascular bundle (contains xylem (top) and phloem (bottom))
- Lower epidermis (contains guard cells)

Stem cells in plants

Stem cells in plants are found just below the tip of the shoot and roots. They are undifferentiated cells which can become any type of cell. Adult stem cells are found in most tissues. They can only differentiate into a few different types of cell.

Stem cells in animals

Stem cells in animals are found in the embryo and in a very early stage. They can become any type of cell. Adult stem cells are found in most tissues. They can only differentiate into a few different types of cell.

Uses of stem cells and problems

Uses: Cure diseases, treat paralysis, muscle regeneration in the heart, diabetes.

Problems: Transgenic cloning, use stem cells to clone humans, live, rejection at some stages.

Regulation: Ethical potential, human life, companies working with stem cells have to follow strict rules.

4.1.3 Leaf organisation

Epidermis: group of cells, building tissue. Specialise to give a particular function. Muscle cells contract and generate force.

Palisade mesophyll: group of cells, building tissue. Specialise to give a particular function. Muscle cells contract and generate force.

Spongy mesophyll: group of cells, building tissue. Specialise to give a particular function. Muscle cells contract and generate force.

Vascular bundle: group of cells, building tissue. Specialise to give a particular function. Muscle cells contract and generate force.

Lower epidermis: group of cells, building tissue. Specialise to give a particular function. Muscle cells contract and generate force.

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c hypothesis d law answer hypothesis 3 pollution of our surroundings in the recent past has resulted