

4.1.1 Cell structure, Prokaryotic cells

Labels: Cell wall, Cell membrane, Cytoplasm, Central vacuole, Nucleus, Ribosomes, No chloroplasts.

Size: 10-100 µm

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 (trans electron, for a higher magnification and higher resolution).

Magnification calculation

$$\text{Magnification} = \frac{\text{Image size (micrometres)}}{\text{Actual size}}$$

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

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 stain to provide contrast.

Staining a specimen: Stains provide, bits of the same, for staining or clearing, all from brown, continuous, include magnification.

Size (µm): 100 (Bacteria), 1000 (Liver), 10000 (Sperm), 100000 (Human Egg)

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 nucleus contains genetic information as chromosomes. Chromosomes are coiled lengths of DNA. Each chromosome carries a large number of genes. Each cell has 2 copies of each chromosome. During cell division all genetic information needs to be copied, as the cells go through 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.

4.1.2.1 Eukaryotic cells, two nuclei

Labels: Nucleus, Nucleolus, Rough endoplasmic reticulum, Smooth endoplasmic reticulum, Golgi apparatus, Mitochondria, Cell wall, Cell membrane, Cytoplasm.

Size: 10-100 µm

Cell wall, strengthened with cellulose.

Mitochondria, site of aerobic respiration.

Golgi apparatus.

Cell membrane.

Nucleus.

Mitochondria, site of protein synthesis.

Size: 10-100 µm

Specialised cells

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Cells	Name	Function	Adaptation
	Sperm cell	Fertilise the egg	Half the 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 (remember this is 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	Living, tubes joined end to end, translocation

Labels: Bacterial dividing, Binary fission, DNA replication, Cell wall, Cell membrane, Cytoplasm, Daughter cells.

Bacterial cells divide using binary fission, they copy genetic information and split cytoplasm.

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 blood to the lungs, and in the movement of glucose moving from the blood to the muscle tissue.

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)
- Thin barrier (e.g. one cell thick)
- Good temperature control

Examples of exchange surfaces:

- Lungs: fish gills
- Small intestine (for increased by villi and microvilli)
- Leaf

Labels: Upper epidermis, Palisade mesophyll, Spongy mesophyll, Guard cells, Stoma, Lower epidermis, Xylem, Phloem.

Stem cells in plants

Found just behind the tip of the shoots and roots. Undifferentiated cells which can become any type of cell.

Stem cells in animals

Found in embryos and a very early stage. Can become any type of cell. Adult stem cells found in most tissues. Can only differentiate into a few different types of cell.

Uses of stem cells and problems

Uses: Cure diseases, treat paralysis, neurone degeneration in the eye, diabetes. Transplants cloning use stem cells to clone tissues, live organs or even organs.

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

4.1.2.2 Tissues

Cells join, building tissue.

Specialise to give a particular function. Muscle cells contract and generate force.

Epithelial tissue: group of cells working together. Muscle tissue.

Connective tissue: group of cells working together to perform a support function. Connective tissue.

Epithelial tissue: group of cells working together to perform a support function. Epithelial tissue.

4.1.2.3 Gas exchange

Upper epidermis: contains guard cells. Guard cells control the opening and closing of the stomata. The stomata are holes which control the movement of gases into and out of the leaf.

Spongy mesophyll: contains air spaces for gas exchange.

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Scott C. Dulebohn



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