

### 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, for 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

### 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.

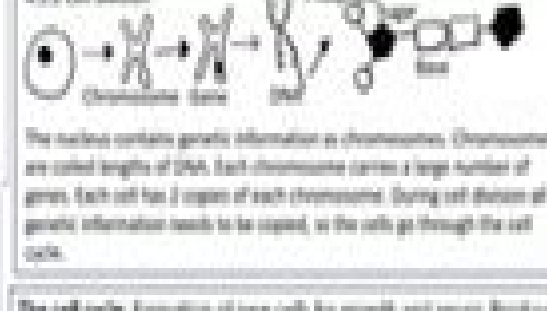
**Staining a specimen:** Stains provide, bits of the same, for coloring or clearing, all from brown, continuous, include magnification.

Use (H&E) (Jan 1850s, Jan 1850s, Jan 1850s, Jan 1850s)

**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

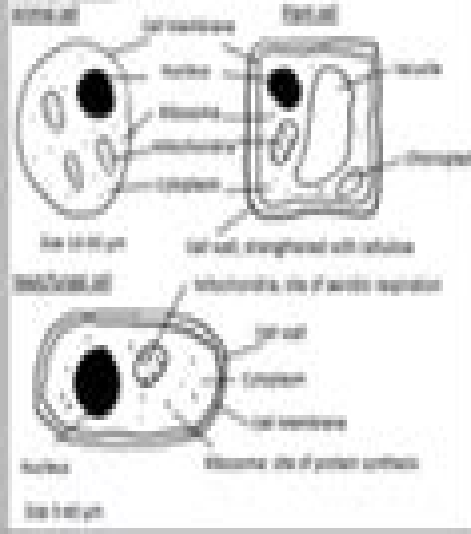


### The cell cycle



**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 basic



### 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, translocation             |



### Fast tissues and organs

**Stem cells in plants:** found just below the tip of the shoots and roots. (undifferentiated cells which can become any type of cell). Adult stem cells, found in most tissues. (can only differentiate into a few different types of cell).

**Stem cells in animals:** found in the embryo 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).

### 4.2.1 Transport in and out of cells

**Three methods of transport:**

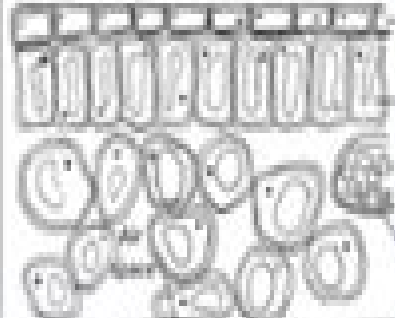
**Diffusion:** substances move from an area of high concentration to an area of low concentration. It is random and passive (does not require energy).

**Osmosis:** the water (solute) moving from the large to the small and water moves from the large to the small, and in the direction of water moving towards the small.

**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 blood supply (e.g. one cell thick)
- Good ventilation (e.g. one cell thick)



### Water uptake in a root

Upper epidermis, transparent

Palisade mesophyll layer contains chloroplasts for photosynthesis

Spongy mesophyll, contains air spaces for gas exchange

Guard cells, control the opening and closing of the stomata

**Uses of stem cells and problems:**

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

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

**Problems:** Ethical potential, human life, companies making with stem cells, but it's not ethical.

### 4.2.2 Cell specialization

**Cells have building blocks:**

**Specialize to give a particular function:** Muscle cells contract and generate force.

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

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

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

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

**Spongy mesophyll:** contains air spaces for gas exchange

**Lower 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.

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