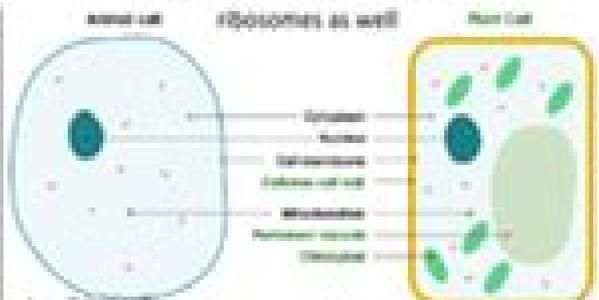


- All living things are made of cells
- These cells can be either prokaryotic or eukaryotic
- Eukaryotic cells are complex and include animal and plant cells
- Prokaryotic cells are smaller and simpler

Both plant and animal cells contain



Start
 G1 - when cell division starts, the cell gets bigger
 S - more DNA is made in preparation for cell division
 G2 - Preparation for mitosis
 M - Mitosis

- Animal cells
- from human animals
 - can make most types of human cells
 - multicellular
 - more cells on top - more cells including blood

Cell differentiation

Animals
 Most cells die during embryonic development, or later life this is repair and replacement

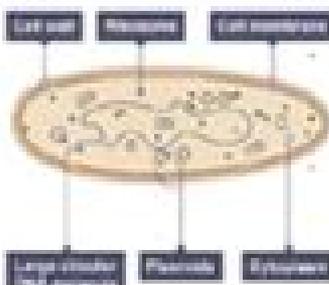
Plants
 Can continue to differentiate throughout a plant life

Key words

Eukaryotes - have organisms that are made up of eukaryotic cells

Prokaryotes - are prokaryotic cells

Differentiation - is the process by which a cell changes to become specialised for its job



Bacteria cells

They are simple so they can divide easily and quickly

They don't have a nucleus they have large circular and plasmid DNA

Xylem - lots of protein synthesis

Phloem - site of respiration

Provides energy for the cell



G1 - Growth
 S - DNA synthesis
 G2 - Growth and preparation for mitosis
 M - Mitosis (cell division)

Stem cells

This is an undifferentiated cell of an organism that is capable of differentiating into any type of specialised cell

- Transcription
- Gene cells may help to read status, making more embryonic cells, and analysis, making more cells
- Transcription cloning
- Cloning can be made to have the same genes as the patient
 - This means to replicate

- Meiosis
- Acrotene is a potential hazard the should be tested on!
 - Have better than curing suffering a more treatment than the rights of an embryo
 - People feel uncertain about consent or developing what that don't include embryo
 - It is more common the use of embryo is banned

81 Cell Biology

- Sperm cell
- fertilises an egg cell
 - It has a flagellum and streamline head to help it swim
 - It has a lot of mitochondria for energy
 - It has enzymes in head to cut the egg membrane

Specialised cells

- Root hair cell - Absorbs water and minerals. They have long 'hairs' which gives them a larger surface area
- Palisade cell - Carries food around the plant they have very few subcellular structures so stuff can flow through them
- Sieve tube cell - Carries electrical impulses around the body. Long and have branched connections at each end meaning they can form a network around the body
- Contractile vacuole - They are long so they have space to contract. They have a lot of mitochondria to generate lots of energy

Target - vesicle cell

Fluid - dissolved cell



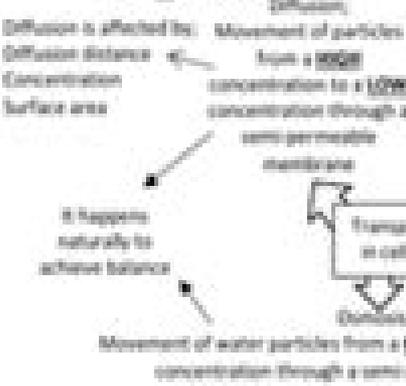
Chromosomes

Each cell has 23 chromosomes

They are in the cell's nucleus

Different genes control different characteristics

Sperm cells have 23 chromosomes and so do egg cells



Active transport

Root hair cell

- Absorbs minerals against the concentration gradient when necessary

Leaf

- Absorbs nutrients into the blood against the concentration gradient when necessary

Diffusion, Lung, Alveol

- The flow a massive surface area
 - 2 cell thick diffusion distance
 - The blood flow means the concentration of oxygen in the blood is always lower than in the lung
- Small intestine, Villi
- The surface area is massive, also has more villi on the villi making it even bigger
 - 2 cell thick diffusion distance
 - The blood flow means there is always a lower concentration of sugars in the blood than the intestine
- Leaf
- Short diffusion distance, there are little holes on the bottom of the leaf that CO₂ can diffuse out of
- Gills
- Oxygen diffuses from the water in to the blood on the gills
 - Big surface area, gill filaments
 - Thin diffusion distance
 - The blood flow means there is always a lower concentration of oxygen in the blood than the water

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Ocean Drilling Program



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