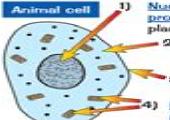
Cell Structure and Function

Every living thing, from your teacher to your pet pooch, is made up of the same basic <u>building blocks</u> — <u>cells</u>. Lots of important chemical reactions happen in cells — you need to know about the different parts involved.

Plant and Animal Cells Have Similarities and Differences

Most animal and plant cells have the following parts — make sure you know them all:



Nucleus — contains <u>DNA</u> (see page 49). DNA contains the instructions for making <u>proteins</u>, e.g. the <u>enzymes</u> used in the chemical reactions of <u>respiration</u> (in animal and plant cells, see pages 42-43) and <u>photosunthesis</u> (in plant cells only, see page 44).

- Cytoplasm gel-like substance where proteins like enzymes (see page 41) are made. Some enzyme-controlled reactions take place in the cytoplasm, e.g. the reactions of enserobic respiration (see page 43).
- Cell membrane holds the cell together and controls what goes in and out. It lets
 gases and water pass through freely while acting as a barrier to other chemicals.

Mitochandria — these are where the enzymes needed for the reactions of serobic respiration (see page 42) are found, and where the reactions take place.

Plant cells also have a few extra things that animal cells don't have:

- Rigid cell wall made of cellulose. It supports the cell and strengthens it.
- Vecuole contains cell sap, a weak solution of sugar and salts.
- Chloroplasts these are where the reactions for photosynthesis take place. They contain a green substance called chlorophyll and the enzumes needed for photosynthesis.

Plant cell

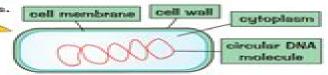
Yeast are Single Celled Microorganisms

- Yeast are used to make bread and wine (see page 43).
- 2) You need to learn the different parts of a yeast cell:



Bacteria Have a Simple Cell Structure

- Bacterial cells are a bit different to plant, animal and yeast cells.
 You need to know the different parts of a bacterial cell:
- They don't have a nucleus. They have a circular molecule of DNA which floats around in the cytoplasm.
- They don't have mitochondria either, but they can still respire aerobically.



At yeast it's an easy page...

It might look like there's lots on the page but don't let that put you off — it's not as mind boggling as it seems and there's a <u>dead simple</u> way of learning it all. Just draw a <u>table</u> showing the <u>different parts</u> of <u>plant</u>, <u>animal</u>, <u>yeast</u> and <u>bacterial</u> cells. Then learn the table and before you know it you'll be an <u>expert</u> on cells just like me.

Biology Cells And Their Functions Study Guide

Kathleen Armour

Biology Cells And Their Functions Study Guide:

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