Chapter 2.2

Cell Organelles

Compartmentalisation of Eukaryotic Cells

* As well as having an external membrane Eukaryotic cells also have internal membranes which form compartments for organelles
* This is known as cell compartmentalisation
* Due to each compartment carrying out different function the contents of the compartments can differ so that the organelle can perform its specific functions.
* For example, high concentrations of enzymes and reactants
* These membranes control what enters and leaves the compartment and into or from the cytosol

Benefits

* Allows for the optimal conditions for the organelles to function
* Allows for process that require different environments to take place at the same time
* Makes cells less vulnerable to outside environmental changes as these effect only the cytosol and not the organelles

Organelle Structure and role

