

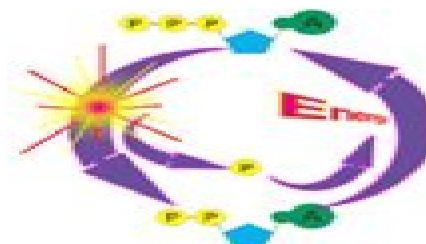
Chapter 5

The vital role of ATP

This is the energy-rich compound that is the source of energy for all living things. It is a **nucleotide**, comprising a 5C sugar (**ribose**); an organic base (**adenosine**); and 3 phosphate groups. (2 in ADP). This is continually recycled thus:



The amount of energy released from the hydrolysis of one molecule of ATP is small and can thus be used to energise a single reaction, whilst, being a single reaction, it is also very fast. These are significant advantages over using glucose directly.



Photosynthesis ($\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2$)

(Nearly) all life on Earth depends on this process, yet it is very inefficient. Half of all energy from the Sun is used to evaporate water; 15% is reflected and 32% passes through the leaf untouched. That leaves (sorry!) only 2% of the incident radiation to be trapped and used in photosynthesis.

There are two parts to this process:

1. The **light-dependent reactions** (which take place in the **thylakoid membranes**, or **grana**, of the **chloroplasts**), in which light energy, trapped by chlorophyll, is used:
 - to split water into O_2 and H^+ ions, stored as **reduced NADPH** and
 - to be stored as chemical energy by converting **ADP + P_i** to **ATP**.
2. The **light-independent reactions**, (take place in the **stroma** of the chloroplasts) in which:
 - the **ATP and reduced NADP** (from the light-dependent reactions) are used to reduce CO_2 to glucose.

The **thylakoid membranes provide a large surface area** (to trap light), and contain molecules of chlorophyll arranged in clusters called **photosystems**. Each photosystem contains several hundred molecules of chlorophyll and acts as a single light-harvesting system.



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R Barnett



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