

## 6. Water splitting

The most important function of the photosynthesis process is breaking down water into hydrogen and oxygen. However water is a very stable molecule and very difficult to split. At present we are able to split water using electrolysis and steam reformation. But these processes consume more energy than could be produced by burning hydrogen.

The splitting of water is a very difficult process and needs the help of a catalyst which is a part of the water splitting complex containing 3 special proteins. At the center of the catalyst are four manganese and one calcium atom which are connected to five oxygen atoms and are linked to different amino acids of these three proteins.

The catalyst is a very mysterious molecule whose structure has only recently been discovered. The process of splitting water is so complex that it is still not fully understood in spite of the fact that the structures of all its components are now well known. If this process was discovered it would open up for mankind an unlimited source of energy using just the Sun's energy and water. Cheap hydrogen would make the oil industry and nuclear power stations redundant. So there is no doubt that we want to discover it, but so far we have not.

It is interesting to look at how evolutionists explain the arising of this catalyst. Because a similar manganese compound is present in the oceans, it was therefore proposed that the water splitting complex absorbed this compound. It decided to pick this compound out of millions of other compounds present in water. How did it know that this is the right compound which would help to split water?

The cell not only knew that it needed manganese and calcium atoms. The cell also prepared in advance 3 proteins to link with these atoms. Without these proteins the water splitting process would not work. Therefore its DNA had to develop 3 proteins not knowing what these proteins were for.

Now can you believe that such complex processes, which existed right from the beginning of life on Earth, could be developed by evolution?