

GENETIC ENGINEERING AND BIOTECHNOLOGY

INTRODUCTION

Since Man discovered agriculture and farming, he set a way of obtaining bigger harvest and productive herds. Man used selective cross breeding between individuals that had the features he needed (big production of grain, milk or meat, strength to pull, resistance to freeze, bigger size of fruits...). This procedure was slow and not always got best results. Basically, Man manipulated the DNA of living beings without knowing the basis of the process, that is to say, it was an empirical procedure (based on experience and results).

After the discovering of the DNA structure and how the genetic information is expressed, genetic improvement of the species reached a new stage called *genetic engineering*.

WHAT IS GENETIC ENGINEERING?

This discipline includes all techniques of manipulating the genetic material of an individual. These methods are:

- To cleave (cut) the DNA.
- To join DNA.
- To transfer DNA between species (gene transfer)
- To sequence DNA
- To clone DNA (Polymerase Chain reaction or PCR)

In genetic engineering, we usually use microorganisms, specially yeasts and bacteria, because:

- It involves few ethical consequences. Some people is against using mammals in this procedures.
- Results appear faster.
- Procedures are simpler.

In some cases, scientists have used mammals (mice) or plants

TO CLEAVE THE DNA

We can cut the DNA using a tools called *restriction enzymes* (also restriction endonucleases). These are a kind of enzymes isolated from the oldest bacteria we know (archaeobacteria), that live in the mid-ocean ridges, where temperature reaches up to 70 celsius degrees. By this reason, are called *thermophiles* (like high temperature).

Originally, bacteria use these enzymes to cut the viral DNA when a virus infects the bacteria. In this way, the enzyme destroys the viral DNA. So restriction enzymes work as a protection against virus.

There are known five types of restriction enzymes. How do they work? Restriction enzymes are able to cut DNA in specific sequence.

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