

GENETIC ENGINEERING

Genetic Engineering

- is a process of making changes on the genetic code of an organism. Its goal is to add one or more new traits that are not normally found in that organism. Through advanced studies in the structure of DNA and its chemical properties, scientists have been able to employ different techniques to extract, cut, and make unlimited copies of DNA.

The Importance And The Essence Of Genetic Engineering

DNA recombination - is a process of modifying the genes of organisms for practical purposes. It is done when a piece of DNA is combined with another DNA from another source. The resulting genetic product is called **recombinant DNA**. With this process, organisms get to have traits that are not normally found in their species.

- **Genetic engineering:** Changing the DNA in living organisms to create something new.
- These organisms are called **Genetically Modified Organism (GMO)**
- **Genetically Modified Organisms** are called **transgenic organism**, since genes are transferred from one organism to another.

Genetic Engineering Techniques

- I. **Artificial Selection:** breeders choose which organism to mate to produce offspring with desired traits.
 - They cannot control what genes are passed.
 - When they get offspring with the desired traits, they maintain them.

Three types of Artificial Selection:

- A. **Selective breeding:** when animals with desired characteristics are mated to produce offspring with those desired traits.
 - Passing important genes to the next generation.
 - Selective breeding occurs when you choose the best male and female to breed.
 - This allows you to fine tune and control the traits
 - The offspring or babies will then have the best traits.
 - Then you continue to breed those organisms with the best traits, those traits will be maintained.
- B. **Hybridizations:** two individuals with unlike characteristics are crossed to produce the best in both organisms.
- C. **Inbreeding:** breeding of organisms that are genetically similar to maintain desired traits.

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