

## Genetic engineering Lec Notes

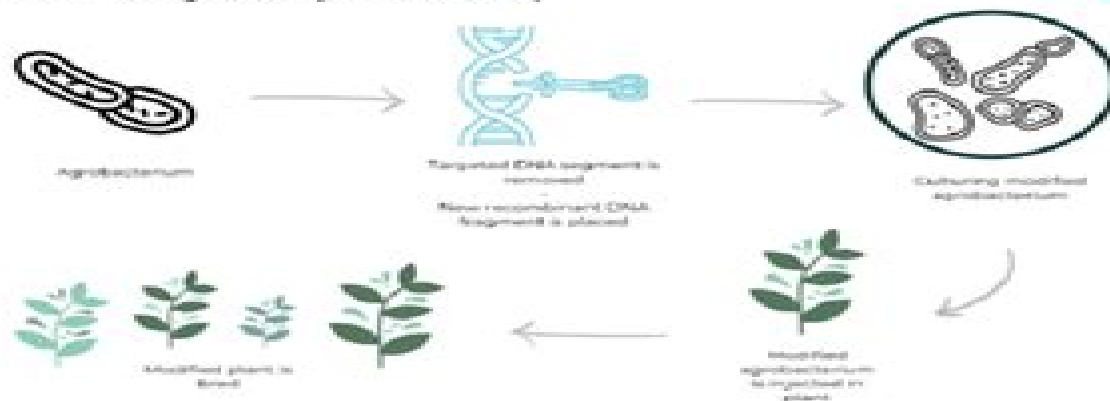
### Genetic Engineering

We are now able to isolate **DNA molecules** and determine their base sequence using a variety of biological and chemical techniques.

- The **study** of the human genome's complete base sequence as well as the genomes of numerous other organisms, including pathogenic bacteria, has the potential to transform **both** biology and medicine.

### Genetic engineering

(in the case of agricultural plant modification)



This section depicts a portion of the significant methods involved in **recombinant DNA innovation** at the core of which is **DNA cloning**.

### DNA CLONING

Since DNA atoms are made out of just four nucleotides, their physical and compound **properties** are practically the same. A clone is a population of cells that came from a single **original** cell and will all have the same genetic make-up if there is no mutation.

In the examples we will present, the fundamental method for cloning a gene is to introduce DNA into **bacterial** cells using the genetic material from the cell of interest.

# Lecture Notes On Genetic Engineering

**Thomas Griffiths**



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