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Mutagenesis is defined as the change in the genetic information of an organism in a stable manner by the physical and chemical mutagens.

 Types of Mutagenes

Directed mutagenesis: is defined as the change in amino acid coding at the DNA level.

Insertional Mutagenesis: is produced by the insertion of one or more bases.

Cassettle Mutagenesis: is used to introduce multiple mutations into the DNA sequence using blunt ended DNA at the state of mutation a 3 base pair direct terminal repeat is created.

MUTATION: is the permanent alteration of the nucleotide sequence of the genome of an organism or extra chromosomal DNA

 Types of Mutation

 Insertion: are mutations in which extra base pairs are inserted into a new place in the DNA.

Deletion: are mutations in which a section of DNA is lost or deleted.

Substitution: is a mutation that exchange one base for another.