TYPES OF MUTATION

ON THE BASIS OF HEREDITARY CHANGES IN THE GENOME

- Chromosomal mutation: Such mutation occur due to changes in chromosome number or structure.
- Point or Gene mutation: Such mutation involve changes in the sequence of the DNA of a gene

ON THE BASIS OF NATURE OF MUTATION OR ITS ORIGIN

- 1. Spontaneous mutation: Such mutations occur spontaneously in nature.
- Induced mutation: These mutation are induced artificially through chemical or physical mutagens.

ON THE BASIS OF TYPE OF CELLS AFFECTED BY MUTATION

- Germinal mutation: These mutation occur in generative cells either in gametes or gamete producing cells.
- 2. Somatic mutation: Such mutation occur in somatic cells and produce localised phenotypic changes in the body.

ON THE BASIS OF DIRECTION OF MUTATION

- 1. Forward mutation: Such mutaions give rise to mutant alleles from wild type alleles.
- Reverse or Backward mutation: These mutation occur in mutant alleles and give rise to wild type alleles.