

# GENETICS

## MEANING:

- The Father of Genetics – **Gregor Mendel**.
- The term Genetics was introduced by **William Bateson** in **1906**. It was derived from Greek word "Gene" which means 'to become' or 'to grow into'.
- Therefore, genetics is the science of coming into being.
- It deals with the **inheritance**, as well as the **Variation of characters** from parents to offspring.
- Basic Terminologies in Genetics:
  1. Genes
  2. Alleles
  3. Chromosomes

## 1.GENES

- The basic physical and functional unit of heredity.
- Genes are made up of DNA.
- The human genome contains about 30000-40000 genes and each genes varies in size.



## 2.ALLELES

- An allele is one of two, or more ,forms of a given gene variant.
- A pair of genes that occupy a specific location on a particular chromosome and control the same trait.
- Each allele determines a single inherited characteristics in an individual.

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