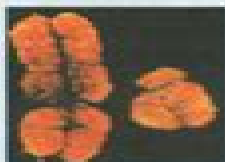


Genetics — Some Basic Fundamentals

Syllabus : *Genetics : Mendel's laws of inheritance and sex-linked inheritance of diseases.*

Scope of Syllabus : Monohybrid cross, dihybrid cross. The following terms to be covered : gene, allele, heterozygous, homozygous, dominant, recessive, mutation, variation, phenotype, genotype. Sex determination in human beings.

Sex-linked inheritance of diseases to include haemophilia and colour blindness (only criss cross inheritance).



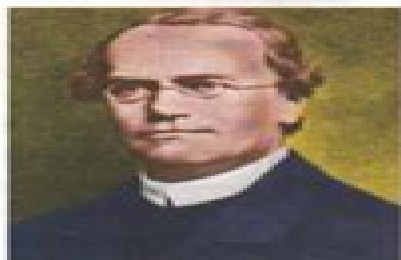
Whenever a child is born the family members usually start comparing his appearance as to whom he/she resembles more. All this, although a matter of chance, is governed by certain laws. This chapter presents some fundamentals of Genetics including Mendel's laws of inheritance as envisaged in the syllabus. In order to properly understand Mendel's laws of inheritance (page 29) and the sex-linked inheritance (page 26), it is essential to know beforehand, some basic aspects of genetics. You will learn about the chromosomes, the genes and some very common hereditary traits in humans. You can do several investigatory projects, if desired.

3.1 WHAT IS GENETICS ?

Genetics is the study of transmission of body features (both similarities and differences) from parents to offspring and the laws relating to such transmission.

GREGOR MENDEL — An Austrian Monk and Father of Genetics

Gregor Mendel (1822 – 84) was born in a peasant family. He had his early education in a monastery and later he studied Science and Mathematics at University of Vienna. *He wanted to be a teacher but luck did not favour him, and he failed in the examination of teaching certificate. But what he discovered later as a craze, has made him a "teacher of teachers".* He had returned to his monastery and spent the rest of his life as an abbot. The monastery had a lovely garden which satisfied his urge to understand some secrets



Mendel — "Father of Genetics"

of life regarding the inheritance of certain features in garden pea. His findings are now called Mendel's laws of inheritance.

Two modern applications of genetics

Genetic engineering is the technique in which the *genetic constitution of an organism (bacterium) is altered by introducing new genes into its chromosomes.* The genetically modified organism (GMO) thus produced is grown to multiply fast and the gene product is obtained in large quantities. The hormone *insulin* was the first such product. The insulin producing gene of mammals has been successfully introduced in certain bacteria which have been made to produce it.

Genetic counselling is yet another practical aspect. Newly married couples are advised to consult a specialist regarding the possibilities of any undesirable trait which their children might inherit. Diseases like *haemophilia* (bleeder's disease with a tendency to bleed freely from even a slight wound), *thalassaemia* and *sickle cell anaemia* with defective haemoglobin are examples of genetic diseases which can be prevented to some extent by proper genetic matching of the prospective parents.

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