

Unit 2:- Genetics

Introduction to Genetics and DNA

Genetics:- The branch of biology dealing with **hereditary** and the variation of inherited characteristics. It also involves examining the processes of hereditary through the transfer of genetic material from one parent to offspring. Genetic material is passed in the form of **Deoxyribonucleic Acid (DNA)** which is packaged in the form of **chromosomes**.

- **Genetic Material** is a term used to describe all the material inside the organism that stores genetic information.

Chromosome:- They are long thread-like strand, composed mostly of DNA. Chromosomes are usually found in the nucleus of all eukaryotic cells, but they vary widely between organisms of different species in their number, shape and size.

- The DNA is wrapped and coiled around proteins known as **histones**. Each wrap is called a **nucleosome**.
- Within the nucleus, the chromosomes form a mass of thread-like structures known as chromatin.
- Humans have 46 chromosomes, which makes 2 sets of 23. One set from the paternal side and one set from the maternal side
- **Somatic cells (general body cells)** are diploid and contain 46 chromosomes (one set). **Gametes (sex cells)** are haploid and contain 23 sets of chromosomes (one set)
- A **Karyotype** is a visual display of condensed chromosomes during mitosis which have been arranged in pairs according to chromosome number.
- Due to the consistent appearance of stained chromosomes, large abnormalities can be seen through a karyotype of an individual's chromosomes.

Deoxyribonucleic Acid (DNA):-

- **DNA or Deoxyribonucleic Acid** is a molecule/part of chromosomes they at carries genetic information in the nucleus which is necessary for cell structures and functions.

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