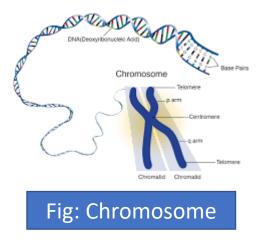
CONTINUITY OF LIFE

1. What is Chromosome?

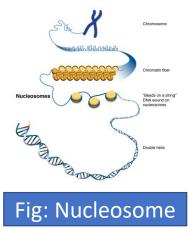
 A threadlike structure of nucleic acids and protein found in the nucleus of most living cells, carrying genetic information in the form of genes



 Heinrich Wilhelm Gottfried von Waldeyer coined in 1888 the term "Chromosome".

2. How the Chromosomes are formed?

- Chromosomes are formed from chromatin. Chromatin is a complex of DNA and protein (nucleosome) found in Eukaryotic cell nucleus. In the time of cell division these chromatin fibers are coiled and condensed to form chromosome.
- Nucleosome: DNA wrapped around a set of eight proteins called histone octamer. Each histone octamer is composed of two copies each of the histone proteins H2A, H2B, H3, and H4.



3. Types of Chromosome:

- Types of chromosome according to Sex Determination Properties:
- 1. Autosome takes part in body composition except sex determination . In human body 22 pairs of autosome present.
- 2. Allosome takes part in sex determination. Allosome or sex chromosomes are 1 pair, in human.
- According to Centromere: Its four type. *Telocentric* (centromere is located at the terminal end of the chromosome), *Acrocentric* (centromere is located quite near one end of the chromosome), *Metacentic* (centromere is located in the middle), *Submetacentric* (centromere is near middle location).

