

TOPIC 5: GENETICS

TERMINOLOGY

Genetics – study of heredity and variations that occur in the transmission of hereditary characteristics i.e. the study of similarities and differences between related individuals.

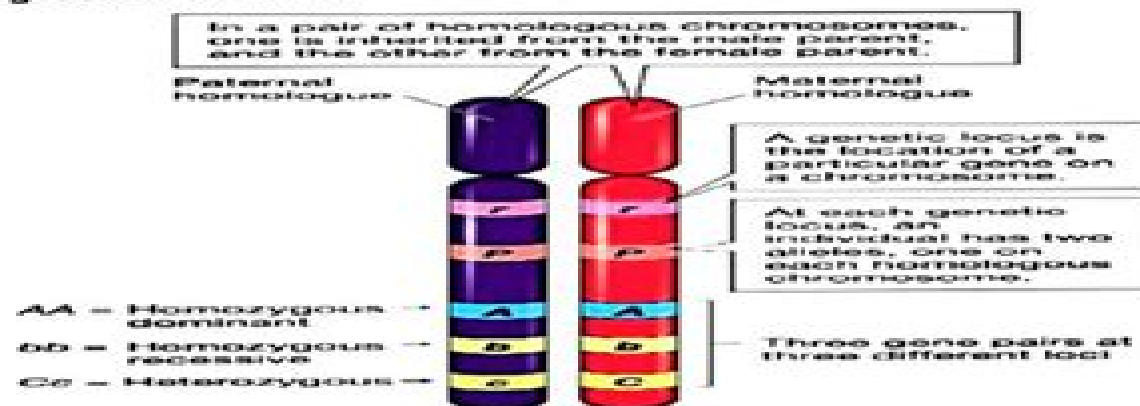
Inheritance – set of characteristics that have been passed from parents to offspring.

Heredity – transmission of characteristics from parent to their offspring.

Gene

- A particular length of DNA at a particular location on the chromosome.
- Diploid cells have homologous (two copies) chromosomes, there will be two copies of the gene.
- Some genes control morphological characteristics (e.g. eye colour, hair colour), other genes control physiological characteristics (e.g. whether certain diseases and disorders are likely to develop)
- Characteristics controlled by a single gene – **monogenic inheritance**
- Characteristics controlled by more than one gene – **polygenic inheritance** e.g. skin colour
- **Locus** – a particular position of a gene on a particular chromosome.
- **Phenotype** – external appearance of an organism.
- **Genotype** – genetic composition of the individual or combination of alleles that an individual possesses for a particular characteristic. It determines the phenotype.
- **Genome** – complete set of genes of a particular organism. Human genome = about 25000 different genes.

Homologous chromosome



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