

6 Transmission of genetic information - Genetic Crosses

A **monohybrid Cross** involves the inheritance of a single characteristic determined by one gene

- In genetics a **gene** is a specific length of DNA which occupies a position on a chromosome – the position of the gene on a chromosome is called the **locus**.
- The gene determines the **characteristic** of an organism by coding for a particular polypeptide (remember genetic code – three bases = 1 amino acid)
- Different forms of the same gene are called **alleles** - the upper case (capital) letter represents the dominant allele and lower case letter represents the recessive allele.
- **Homozygous** – the cells in an organism have identical alleles for a gene e.g. HH or hh
- **Heterozygous** – the cells in an organism have different alleles for a gene e.g. Hh
- The **phenotype** is the observable feature of an organism any may be changed depending on which allele is expressed
- The **genotype** is the description of the alleles present e.g. HH, Hh or hh

What are homologous chromosomes?

Copy Fig 1 Page 113

What do the following terms mean?

Mutation _____

Co-dominance _____

Multiple Alleles _____

Modification _____

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A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the PT Brinkman text.

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