

Winnall, Bryan L. 2014. *Classification*. In Biology. Pearson. 10-11.

1. **DPN** is the hereditary material in cells. It is a chain of nucleotides.

2. An **allele** is a gene and **DPN** does a specific gene trait. The it has a gene and **DPN**. What is other information the organism uses provides that property.

3. A **chromosome** is a long strand of **DPN**, composed of many genes. It contains the information the traits.

4. **Allele** is a form of the gene. For example, the allele for purple flowers and the allele for white flowers are two different forms of the same gene in pea plants.

5. **Heterozygous** is an organism that has traits different alleles than it traits.
Example: Pp- is purple allele and a white allele.

6. **Homozygous** is an organism that has traits off the same alleles. See a trait.

Example: PP- homozygous dominant (2 purple alleles).
pp- homozygous recessive (2 white alleles)

7. **Genotype** is the two alleles for a gene found in an organism. Example: PP-, Pp-, or pp-

8. **Phenotype** is the expression of a gene in an organism. appearance, resistance to a particular disease etc. Examples: Brown eyes, blood, fingerprints.

9. **Phenotype** = **Genotype** + environment + heredity + other genes.

10. **Phenotype** is a tool to determine what genotypes heterozygous and possible offspring of two parents, and what the probabilities of each genotype (phenotype) are.
Each side represents the possible alleles (in each of the gamete) of parents.

Example: If a mother is heterozygous for blue eyes (heterozygous trait) her eggs have either a B allele or a b allele.

If the father is homozygous recessive for colored eye (blue), his sperm always have the b allele.

Eggs from mother:

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