

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. For it traits.

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. Example: Brown eyes, blood, fingerprints.

9. **Phenotype** - resistance - genotype -> environment -> heterozygous -> the same 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.

11. **Allele** represents the possible alleles in each of the gamete (egg/perm) and parents.

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

12. **Offspring** is heterozygous because her mother has two alleles for blue eyes, her two alleles.

Eggs from mother:

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