Genotype vs. Phenotype

Genotype and phenotype are two concepts used frequently in genetics. Genotype refers to an organisms genetic makeup, or genes. It is coded in DNA, and is often represented by two alleles (two letters, like AA or Aa). The combination of alleles (whether two dominant, two recessive, or one of each) is the genotype of an individual in reference to a particular characteristic. That genotype provides the code for phenotype, which is the actual physical appearance of an organism. So a genotype might be "AA", and the phenotype might be "brown hair."

PLAY PICMONIC

Genotype is the genetic makeup

Genie-Type coming from DNA of Baby

Genotype is the genetic makeup of an organism. it is often used to refer to a person's genes for any specific trait.

Genotype is coded in DNA

Genie-Type Typing on DNA-Paper

Genotype is coded in DNA and expressed, meaning that it is inherited from parents.

Genotype is shown as 2 letters that represent 2 alleles

Genie-type with 2 letters on 2 A-Eels

Genotype is typically represented by 2 alleles, indicated by the presence of two letters. A capital letter, "A" indicates a dominant allele, while a lowercase letter, "a", indicates a recessive allele.

Genotype is the code for phenotype

Genie-Type Providing Code for Phoenix-Type

Genotype provides the code for phenotype through alleles. Each allele codes for a different characteristic, whether dominant or recessive. The combination of alleles a person has determines their overall characteristics.

Phenotype is physical appearance of organism

Phoenix-Type Typing out Physical Appearance

The phenotype is the physical appearance of an organism. It is the endproduct of the genetic system. Genotype may have the alleles "AA", but phenotype will refer to the actual characteristic, like brown hair.