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Observing Human Traits Lab



Background: Physical traits are observable characteristics that are determined by genes. Genes are specific segments of DNA located on chromosomes that code for a particular trait. Most genes have two or more variations called alleles. Some alleles are dominant over others and dominant alleles will be expressed (an organism's phenotype or physical appearance) over recessive alleles. Recessive alleles may be present in an organism but expression is masked in the presence of a dominant allele for the same gene. Recessive traits are only expressed when there are two recessive alleles present in the genotype (DNA code).

Keep in mind that it's not always quite this simple. There are other factors that influence trait expression, and most traits have several genes that influence them. This is an introduction to dominant and recessive traits. Let's get started!

Directions: Circle the phenotype you have for each of the following traits.

Personal Traits		
Trait	Phenotype	Phenotype
Handedness	Right-handed	Left-handed
Earlobes	Attached	Unattached
Tongue rolling	Yes	No
Widow's peak	Yes	No
Chin	Pointed chin	Smooth chin
Hairline	Widow's peak	Straight hairline
Bent little finger	Yes	No
Mid-digital hair	Yes	No
Eye dominance	Right-eye dominant	Left-eye dominant
Double jointed fingers	Yes	No
Hitchhiker's thumb	Yes	No
Hand clasping	Right thumb on top	Left thumb on top
Arm folding	Right arm on top	Left arm on top
Long second toe	Yes	No

Observing Human Traits Lab

Michael Hoelscher



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