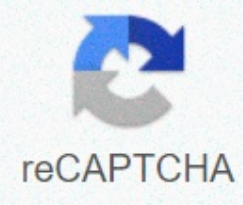




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## Recessive gene example sentence

Recessive trait is a trait that is expressed when the body has two recessive alleles, or forms of a gene. Features are the characteristics of organisms that can be observed; this includes physical characteristics such as hair and eye color, as well as characteristics that may not be readily visible, e.g. Each organism that organizes its DNA into chromosomes has two alleles for traits, one from the mother and one from the father. Alleles can be dominant or recessive. Dominant alleles mask the action of recessive alleles, so recessive trait is expressed only if the body has two recessive alleles for the gene. Gregor Mendel was an Austrian monk who researched pea plants in the 19th century. He discovered that when he crossed the purple-flowering pea plants with white pea plants, all their offspring were purple. When they then crossed this new purple generation with each other, 75% of the offspring were purple and 25% were white. Where did the white color come from and why did he skip the generation? In this case, white is a recessive feature. The allele for white color was in the first generation of offspring, but was masked by the dominant purple allele. Then, when this generation bred, some offspring received both recessive alleles and were white. When a trait is controlled by a single gene that has dominant and recessive alleles, it is called simple Mendelian inheritance. Feature alleles are represented by any pair of uppercase or lowercase letters, with the dominant allele being uppercase and the recessive alem being lowercase. For example, we could designate P as representing a purple allele in pea plants and a p representing a white allele. Individual pea plants are either PP, Pp, or pp for flower color characteristics. PP and Pp individuals are purple, while pp people are white. The body alleles has its genotype, while the physical organism resulting from alleles is called its phenotype. Only pea plants pp will show a white phenotype, for example. PP and pp individuals are called homozygotes because both of their alleles are in the same form, with PP people having two dominant alleles and pp people having two recessive alleles. Pp individuals, like the first generation of purple pea plants grown from purple and white pea plants, are called heterozygos because they have two different forms of alleles for one gene. These individuals exhibit a dominant characteristic because the dominant allele masks the recessive allele. This diagram, called Punnett Square, shows what happened when Mendel crossed his purple pea plants. Because parents had alleles for dominant and recessive traits, about a quarter of their offspring exhibited a recessive white flower trait. Many of the traits we see in the people around us are examples of dominant and Features. For example, a straight hairline is recessive, while about a widow's top (v-shaped hairline near the forehead) is dominant. Cleft chin, wells, and freckles are similar examples; individuals with recessive alleles for cleft chin, wells, or freckles do not have these characteristics. Once round (unlike almond-shaped) eyes is recessive, along with the inability to roll the tongue. The attached ear petals (as opposed to free ones) is also a recessive feature. Having blue eyes is recessive to brown eyes, but eye color is an example of a polygenic trait, a trait that is influenced by more than one gene, so this cannot be explained by a simple Mendelian inheritance. (The color of the eyes is polygenic, which is why there are green and hazel; a person with green or hazel eyes has some genes for brown eyes, and some for blue eyes.) Some disorders are autosomal recessive, such as cystic fibrosis, Tay-Sachs disease, and sickle cell anemia. Autosomal means that they are caused by a recessive gene found in one of the chromosomes that is not a sex chromosome (i.e. not found on X or Y chromosomes). Some other disorders are X-linked recessive. They are located on the X chromosome and are more common in men because men have only one X chromosome. In dogs, features such as yellow fur, white spots and smooth hair are recessive. In cats, white fur, brown (as opposed to black) fur and long hair are recessive features. In sheep, black wool and blue eyes are recessive. In pigs, drooping ears and cloven hooves are recessive features. In order to breed animals with certain characteristics, people raising animals need to understand the dominant and recessive characteristics and use selective breeding to select the traits they want in these animals. They also need to be careful to avoid in person, which occurs when closely related people connect with a colleague. Insecents can cause harmful effects because it is more likely that closely related individuals will have the same recessive alleles. Gene – The part of the body's DNA that is transmitted from parents and codes for a specific function. Allele – Form of the gene; can be dominant or recessive. Dominant feature – A characteristic caused by having two dominant alleles or one dominant and one recessive allele. Chromosome – A structure that consists of heavily rolled DNA and is located in the nuclei. 1. Say that W represents the allele for having a widow's peak, while in representing the allele for the lack of a peak widow. About the top of the widow is dominant. What genotype does a person with a widow peak have? A. WW B. Ww C. ww D. Choices A B D is correct. People with peak widow hairlines have at least one dominant allele for this trait. Their for this feature is either WW or Ww, so it can be the choice of A or B. No widow's peak, that is, having a straight hairline, is a recessive feature. These individuals have the genotype of the afored 2. What is not a recessive feature? A. Round shape of the eye B. Inability to rolling tongue C. Attached ear petals D. Freckles D is correct. Having freckles is the dominant feature, while round eyes, the inability to roll the tongue and attached earlings are all recessive features. 3. What is the recessive disorder associated with the X chromosome? A. Color blindness B. Tay-Sachs disease C. Cystic fibrosis D. Sickle cell anemia A is correct. Red-green color blindness is a disorder caused by having two recessive alleles for a certain gene on the X chromosome. These examples come from corpora and from sources on the Internet. Any opinions in the examples do not reflect the opinions of the editors of the Cambridge Dictionary or Cambridge University Press or its licensors. The likelihood that both parents have the same recessive gene increases if they are cousins or other blood relatives. From Cambridge English Corpus this indicates that the chromosomal recessive gene or genes are responsible for parthenogenesis. From Cambridge English Corpus, this suggests that recessive gene exposure is not a probable cause of the observed phenotype. With Cambridge English Corpus in addition, even trying to reduce the frequency of recessive gene in the population by voluntarily not douling all affected people would be almost impossible. From Cambridge English Corpus Both parents are carriers of the recessive gene. From hansard's archive Bird, which has only one recessive gene for a particular trait, is said to be divided for this trait. From Wikipedia This example comes from Wikipedia and can be re-wished under cc by-sa license. Sometimes pecora scimmia (sheep monkey) is born, with partial or complete a baldness of the head and limbs; this is caused by a recessive gene. From Wikipedia This example comes from Wikipedia and can be re-wished under cc by-sa license. The recessive gene causes black coloration in these animals. From Wikipedia This example comes from Wikipedia and can be re-wished under cc by-sa license. The pearl gene or barlink factor is a recessive gene that affects only the red pigment. From Wikipedia This example comes from Wikipedia and can be re-wished under cc by-sa license. The coloration of white deer is the result of a recessive gene. From Wikipedia This example comes from Wikipedia and can be re-wished under cc by-sa license. The exhibition describes a recessive pattern of gene inheritance that causes ginger or red hair - the same inheritance pattern that causes cystic fibrosis. From Wikipedia This example wikipedia and can be reused CC BY-SA license. For more information, see Recessive Gene and Relationship Domination. From Wikipedia This example comes from Wikipedia and can be re-wished under cc by-sa license. It is a recessive gene; Therefore, both the father and the dam must be carriers for each puppy in the litter in order to have this condition. From Wikipedia This example comes from Wikipedia and can be re-wished under cc by-sa license. The double-flowering form is caused by a recessive variant of the gene (allele) in a homozygotic state. From Wikipedia This example comes from Wikipedia and can be re-wished under cc by-sa license. There is no concept of a dominant gene and recessive gene, much less recombinant between loci. From Wikipedia This example comes from Wikipedia and can be re-wished under cc by-sa license. Carriers of the recessive gene usually do not show any signs or symptoms of the disorder. From Wikipedia This example comes from Wikipedia and can be re-wished under cc by-sa license. This condition was due to an autosomal recessive gene designed adw. From Wikipedia This example comes from Wikipedia and can be re-licensed under CC BY-SA license. Another recessive gene creates a golden or golden variety of tabby color, sometimes known as strawberry. 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