

Biology chapter 11 assessment answers

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What is a situation in which a gene has more than two alleles called? When there are more than two alleles for a gene, this is called multiple alleles. A gene for a particular character may have more than two allelomorphs or alleles occupying the same locus of the chromosome. These allelomorphs make a series of multiple alleles. For eg human blood group ABO is the best example.

What is a physician takes a tissue sample from a patient and studies it under a microscope? A biopsy is a procedure used to take out a sample of a lump, tumor, or other suspicious area to be tested in a lab.

What is a situation in which a gene has more than two alleles called quizlet? multiple alleles. When there are more than two possible alleles that can exist in a particular population, it is said to be that an individual gene has more than two forms. This condition is known as multiple alleles.

What are different forms of a gene called quizlet? The term allele refers to the variant or different form of the same gene that is found on a chromosome.

What if both alleles are dominant? If both alleles are dominant, it's called codominance. The resulting characteristic is due to both alleles being expressed equally. For example, the blood group AB which is the result of codominance of the A and B dominant alleles.

What is more than two alleles per gene? The majority of human genes are thought to have more than two normal versions or alleles. Traits controlled by a single gene with more than two alleles are called multiple allele traits. An example is ABO blood type.

What is it called when a doctor takes a tiny sample of tissue from the body to study under a microscope? A biopsy is a medical procedure that involves taking a small sample of body tissue so it can be examined under a microscope.

What is it called when a doctor takes a sample of cells to look at under a microscope? A needle biopsy is a procedure to obtain a sample of cells from your body for laboratory testing. Common needle biopsy procedures include fine-needle aspiration and core needle biopsy. Needle biopsy may be used to take tissue or fluid samples from muscles, bones, and other organs, such as the liver or lungs.

What is tissue sampling called? A biopsy is a procedure to remove a piece of tissue or a sample of cells from your body so that it can be tested in a laboratory. You may undergo a biopsy if you're experiencing certain signs and symptoms or if your health care provider has identified an area of concern.

What are two different alleles of the gene affecting a given trait? Heterozygous refers to having different alleles for a particular trait. If the two versions are different, you have a heterozygous genotype for that gene. The relationship between the two alleles affects which traits are expressed.

What do you call an allele that can affect multiple traits? The term pleiotropy is derived from the Greek words pleio, which means "many," and tropic, which means "affecting." Genes that affect multiple, apparently unrelated, phenotypes are thus called pleiotropic genes (Figure 1).

What is it called when a gene has two alleles? Listen to pronunciation. (HEH-teh-roh-ZY-gus JEE-noh-tipe) The presence of two different alleles at a particular gene locus. A heterozygous genotype may include one normal allele and one mutated allele or two different mutated alleles (compound heterozygote).

What is a different forms of a gene called? Each variation of a gene is called an allele (pronounced 'AL-eel'). These two copies of the gene contained in your chromosomes influence the way your cells work. The two alleles in a gene pair are inherited, one from each parent.

What do you call the pairs of genes that carry the same traits? Answer and Explanation: The paired chromosomes are called homologous pairs. These

chromosomes look alike and carry genes for the same traits. An organism receives one chromosome from its mother and one from its father to form the homologous pair.

What is having two identical alleles for a particular gene? Homozygous. Homozygous, as related to genetics, refers to having inherited the same versions (alleles) of a genomic marker from each biological parent. Thus, an individual who is homozygous for a genomic marker has two identical versions of that marker.

What is the Punnett square and how is it used in plant genetics? The Punnett square is a square diagram that is used to predict the genotypes of a particular cross or breeding experiment. It is named after Reginald C. Punnett, who devised the approach in 1905. The diagram is used by biologists to determine the probability of an offspring having a particular genotype.

How is the structure of chromosomes related to inheritance? Chromosomes, like Mendel's genes, come in matched (homologous) pairs in an organism. For both genes and chromosomes, one member of the pair comes from the mother and one from the father. The members of a homologous pair separate in meiosis, so each sperm or egg receives just one member.

What are the types of inheritance based on the expression of alleles in the organism? The expression of the mutated allele with respect to the normal allele can be characterized as dominant, co-dominant, or recessive. There are five basic modes of inheritance for single-gene diseases: autosomal dominant, autosomal recessive, X-linked dominant, X-linked recessive, and mitochondrial.

How is codominance different from incomplete dominance? Codominance and Incomplete dominance are two types of genetic inheritance. Codominance essentially means that no allele can block or mask the expression of the other allele. On the other hand, incomplete dominance is a condition in which a dominant allele does not completely mask the effects of a recessive allele.

What type of cell passes on mutations? Germ-line mutations occur in reproductive cells (sperm or eggs) and are passed to an organism's offspring during sexual reproduction. Somatic mutations occur in non-reproductive cells; they are passed to daughter cells during mitosis but not to offspring during sexual

reproduction.

What is incomplete dominance in plants? Incomplete dominance results from a cross in which each parental contribution is genetically unique and gives rise to progeny whose phenotype is intermediate. Incomplete dominance is also referred to as semi-dominance and partial dominance.

What is a case where more than two alleles exist in a gene? An excellent example of multiple allele inheritance is human blood type. Blood type exists as four possible phenotypes: A, B, AB, & O. There are 3 alleles for the gene that determines blood type. (Remember: You have just 2 of the 3 in your genotype --- 1 from mom & 1 from dad).

What is the presence of more than two alleles for a gene called? The correct option is D. Multiple allelism. In human beings, ABO blood groups are controlled by the gene I which has three alleles- I^A , I^B and I^O . This phenomenon is known as multiple allelism.

What is it called when a gene has two alleles? Listen to pronunciation. (HEH-teh-roh-ZY-gus JEE-noh-tipe) The presence of two different alleles at a particular gene locus. A heterozygous genotype may include one normal allele and one mutated allele or two different mutated alleles (compound heterozygote).

What is an example of a pleiotropy? Pleiotropy is a type of genetic expression in which only one gene affects multiple traits. A classic example of pleiotropy is sickle cell anemia. The gene mutation that results in sickle-shaped red blood cells also leads to other affected traits.

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