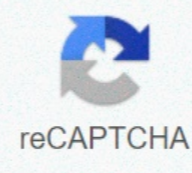




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Meaning of monohybrid

Definition: Biology Glossary search by EverythingBio.com Offspring of parents that differ in only one genetic characteristic. Usually implies heterozygosity at a single locus under study. Princeton's WordNet(0.00 / 0 votes)monohybrid crossnounhybridization using a single trait with two alleles (as in Mendel's experiments with garden peas)Freebase(0.00 / 0 votes)Monohybrid crossA monohybrid cross is a mating between individuals who have different alleles at one genetic locus of interest. The character being studied in a monohybrid cross are governed by two alleles for a single locus. To carry out such a cross, each parent is chosen to be homozygous or true breeding for a given trait. When a cross satisfies the conditions for a monohybrid cross, it is usually detected by a characteristic distribution of second-generation offspring that is sometimes called the monohybrid ratio.Matched CategoriesHow to pronounce Monohybrid cross?How to say Monohybrid cross in sign language?NumerologyChaldean NumerologyThe numerical value of Monohybrid cross in Chaldean Numerology is: 2Pythagorean NumerologyThe numerical value of Monohybrid cross in Pythagorean Numerology is: 8Images & Illustrations of Monohybrid cross - Select 简体中文 (Chinese - Simplified) 繁體中文 (Chinese - Traditional) Español (Spanish) Esperanto (Esperanto) 日本語 (Japanese) Português (Portuguese) Deutsch (German) العربية (Arabic) Français (French) Русский (Russian) ಕನ್ನಡ (Kannada) 한국어 (Korean) עברית (Hebrew) Gaeilge (Irish) Українська (Ukrainian) اردو (Urdu) Magyar (Hungarian) বাংলা (Bengali) हिन्दी (Hindi) Indonesia (Indonesian) Italiano (Italian) தமிழ் (Tamil) Türkçe (Turkish) తెలుగు (Telugu) ไทย (Thai) Tiếng Việt (Vietnamese) Čeština (Czech) Polski (Polish) Български (Bulgarian) Română (Romanian) Nederlands (Dutch) Ελληνικά (Greek) Latinum (Latin) Svenska (Swedish) Dansk (Danish) Suomi (Finnish) فارسی (Persian) հայերեն (Yiddish) հայերեն (Armenian) Norsk (Norwegian) English (English) [mon-uh-hahy-brid / ,mɒn əˈhaɪ brɪd /Genetics.the offspring of individuals that differ with respect to a particular gene p called monohybrid cross . a genetic cross made to examine the distribution of one specific set of alleles in the resulting offspring.of or relating to such an offspring.TEST YOUR MERIT ON THESE NEW WORDS IN 2021The Dictionary added new words and definition to our vast collection, and we want to see how well-versed you are in the formally recognized new lingo. Take the quiz!What does JEDI stand for?Meet Grammar CoachImprove Your Writing Meet Grammar CoachImprove Your Writing First recorded in 1900-05; mono- + hybridmonograph, monographic series, monogynoeical, monogyny, monohull, monohybrid, monohydrate, monohydric, monohydric alcohol, monohydroxy, monoicousDictionary.com Unabridged Based on the Random House Unabridged Dictionary, © Random House, Inc. 2021genetics the offspring of two individuals that differ in respect of a single geneCollins English Dictionary - Complete & Unabridged 2012 Digital Edition © William Collins Sons & Co. Ltd. 1979, 1986 © HarperCollins Publishers 1998, 2000, 2003, 2005, 2006, 2007, 2009. 2012WORD OF THE DAYloftyadjective | (top-lawf-tee, -lof- |SEE DEFINITIONFEEDBACK© 2021 Dictionary.com, LLC monohybrid cross A genetic cross between parents that differ in the alleles they possess for one particular gene, one parent having two dominant alleles and the other two recessives. All the offspring (called monohybrids) have one dominant and one recessive allele for that gene (i.e. they are hybrid at that one locus). Crossing between these offspring yields a characteristic 3:1 (monohybrid) ratio in the following generation of dominant:recessive phenotypes (see illustration). Compare dihybrid cross. A monohybrid cross is a breeding experiment between P generation (parental generation) organisms that differ in a single given trait. The P generation organisms are homozygous for the given trait. However, each parent possesses different alleles for that particular trait. A Punnett square may be used to predict the possible genetic outcomes of a monohybrid cross based on probability. This type of genetic analysis can also be performed in a dihybrid cross, a genetic cross between parental generations that differ in two traits. Traits are characteristics that are determined by discrete segments of DNA called genes. Individuals typically inherit two alleles for each gene. An allele is an alternate version of a gene that is inherited (one from each parent) during sexual reproduction. Male and female gametes, produced by meiosis, have a single allele for each trait. These alleles are randomly united at fertilization. In the image above, the single trait being observed is pod color. The organisms in this monohybrid cross are true-breeding for pod color. True-breeding organisms have homozygous alleles for specific traits. In this cross, the allele for green pod color (G) is completely dominant over the recessive allele for yellow pod color (g). The genotype for the green pod plant is (GG), and the genotype for the yellow pod plant is (gg). Cross-pollination between the true-breeding homozygous dominant green pod plant and the true-breeding homozygous recessive yellow pod plant results in offspring with phenotypes of green pod color. All genotypes are (Gg). The offspring or F1 generation are all green because the dominant green pod color obscures the recessive yellow pod color in the heterozygous genotype. Should the F1 generation be allowed to self-pollinate, the potential allele combinations will be different in the next generation (F2 generation). The F2 generation would have genotypes of (GG, Gg, and gg) and a genotypic ratio of 1:2:1. One-fourth of the F2 generation would be homozygous dominant (GG), one-half would be heterozygous (Gg), and one-fourth would be homozygous recessive (gg). The phenotypic ratio would be 3:1, with three-fourths having green pod color (GG and Gg) and one-fourth having yellow pod color (gg). F2 Generation How can the genotype of an individual expressing a dominant trait be determined to be either heterozygous or homozygous if it is unknown? The answer is by performing a test cross. In this type of cross, an individual of unknown genotype is crossed with an individual that is homozygous recessive for a specific trait. The unknown genotype can be identified by analyzing the resulting phenotypes in the offspring. The predicted ratios observed in the offspring can be determined by using a Punnett square. If the unknown genotype is heterozygous, performing a cross with a homozygous recessive individual would result in a 1:1 ratio of the phenotypes in the offspring. Test Cross 1 Using pod color from the earlier example, a genetic cross between a plant with recessive yellow pod color (gg) and a plant heterozygous for green pod color (Gg) produces both green and yellow offspring. Half are yellow (gg), and half are green (Gg). (Test Cross 1) Test Cross 2 A genetic cross between a plant with recessive yellow pod color (gg) and a plant that is homozygous dominant for green pod color (GG) produces all green offspring with heterozygous genotype (Gg). (Test Cross 2) LEARNDICTIONARYVOCABULARY LISTS Definitions of monohybrid noun a hybrid produced by crossing parents that are homozygous except for a single gene locus that has two alleles (as in Mendel's experiments with garden peas) For Everyone For Educators Help Leaderboards Vocabulary Bowl Bowl Leaders Today's Leaders Weekly Leaders Monthly Leaders Connect Vocabulary.com Blog News & Events Tell us what you think Our Story Our Mission Team / Jobs Partnerships Copyright © 2021 Vocabulary.com, Inc, a division of IXL Learning • All Rights Reserved.

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