

Biology 5 Genetics Study online at quizlet.com/_lvdxhq

1. alleles	alternative forms of a gene
2. chromosomes	thread-like structures made of DNA, observed in dividing cells
3. dominant allele	the form of a gene which is expressed in the heterozygous (hybrid) condition, masking the other (recessive) form of the same gene
4. gene	the smallest physical unit of heredity
5. genetics	the study of heredity and variation in biological systems
6. genotype	all the genes present in the cells of an organism
7. heterozygous	having two different alleles of a particular gene in a diploid cell for any particular hereditary characteristic
8. homozygous	having identical alleles of a particular gene in a diploid cell for any particular hereditary characteristic
9. hybrid	the offspring from the cross-breeding of two distinct races, breeds, varieties, species or genera
10. Mendel's laws	the set of principles derived by Gregor Mendel relating to the transmission of hereditary characteristics from parent organisms to their children
11. monohybrid	the offspring of individuals that are pure- breeding for different alleles of a particular gene
12. pedigree analysis	the study of a pedigree chart in a group of related individuals to determine the pattern and characteristics of inheritance of a genetic trait
13. pedigree chart	a universally accepted scientific format to represent the inheritance of a particular genetic trait over a number of generations
14. phenotype	the detectable physical, chemical or behavioural characteristics or traits of an organism
15. pure-breeding	homozygous
16. recessive allele	the form of a gene which is only expressed in the homozygous condition, and is masked in the heterozygous condition by another (dominant) form of the same gene
17. segregate	separate (as in individual chromosomes that segregate from each homologous pair during meiosis)

18. variation

physical, or physiological or behavioural difference between individuals in a population which may or may not make them more suited to prevailing environmental conditions