

Genetics Discussion Questions:

1. Explain the difference between genotype and phenotype.
2. Explain the difference between gene, locus, and allele.
3. What does the word antithetical mean?
4. What is an amorph?
5. Explain the difference between heterozygous and homozygous.
6. What does codominant mean?
7. Are most blood group systems dominant, recessive, or codominant?
8. What is the dosage effect?
9. What is a Single Nucleotide Polymorphism (SNP)?

10. What is a missense mutation?

11. What is a nonsense mutation?

12. What is the purpose of the Hardy-Weinberg equation?

13. What are the 2 equations used in Hardy-Weinberg calculations?

14. What is a gene or allele frequency?

15. What values would you be solving for if you are trying to find the allele frequencies in a population?

16. What is a genotype frequency?

17. What value would represent the homozygous dominant genotype frequency in the Hardy-Weinberg equations?

18. What value would represent the homozygous recessive genotype frequency in the Hardy-Weinberg equations?

19. What value would represent the heterozygous genotype frequency in the Hardy-Weinberg equations?

20. What is a phenotype frequency?

