

## Study Operations for Cartesian and Hardy-Weinberg Equilibria

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This week's guide provides a summary of the derivation of equilibrium frequencies and genotype frequencies for the scenarios discussed above. It is intended to be used as a reference tool and not a substitute for your own understanding of the concepts. It is recommended that you read the text carefully and work through the problems yourself to ensure you understand the concepts and can apply them to new situations.

- a. In a population with two alleles (A and a) and two genotypes (AA and aa), what are the equilibrium genotype frequencies and the frequencies of the alleles (p and q) if the population is in Hardy-Weinberg equilibrium?**

**Equilibrium genotype frequencies:**  $p^2$ ,  $2pq$ ,  $q^2$  (where  $p$  is the frequency of allele A and  $q$  is the frequency of allele a)

**Equilibrium allele frequencies:**  $p$  and  $q$  (where  $p + q = 1$ )
- b. In a population with two alleles (A and a) and two genotypes (AA and aa), what are the equilibrium genotype frequencies and the frequencies of the alleles (p and q) if the population is in Hardy-Weinberg equilibrium and the frequency of allele A is 0.7?**

**Equilibrium genotype frequencies:**  $0.49$ ,  $0.42$ ,  $0.09$  (where  $p = 0.7$  and  $q = 0.3$ )

**Equilibrium allele frequencies:**  $0.7$  and  $0.3$  (where  $p = 0.7$  and  $q = 0.3$ )
- c. In a population with two alleles (A and a) and two genotypes (AA and aa), what are the equilibrium genotype frequencies and the frequencies of the alleles (p and q) if the population is in Hardy-Weinberg equilibrium and the frequency of allele A is 0.3?**

**Equilibrium genotype frequencies:**  $0.09$ ,  $0.42$ ,  $0.49$  (where  $p = 0.3$  and  $q = 0.7$ )

**Equilibrium allele frequencies:**  $0.3$  and  $0.7$  (where  $p = 0.3$  and  $q = 0.7$ )
- d. In a population with two alleles (A and a) and two genotypes (AA and aa), what are the equilibrium genotype frequencies and the frequencies of the alleles (p and q) if the population is in Hardy-Weinberg equilibrium and the frequency of allele A is 0.5?**

**Equilibrium genotype frequencies:**  $0.25$ ,  $0.50$ ,  $0.25$  (where  $p = 0.5$  and  $q = 0.5$ )

**Equilibrium allele frequencies:**  $0.5$  and  $0.5$  (where  $p = 0.5$  and  $q = 0.5$ )
- e. In a population with two alleles (A and a) and two genotypes (AA and aa), what are the equilibrium genotype frequencies and the frequencies of the alleles (p and q) if the population is in Hardy-Weinberg equilibrium and the frequency of allele A is 0.2?**

**Equilibrium genotype frequencies:**  $0.04$ ,  $0.32$ ,  $0.64$  (where  $p = 0.2$  and  $q = 0.8$ )

**Equilibrium allele frequencies:**  $0.2$  and  $0.8$  (where  $p = 0.2$  and  $q = 0.8$ )
- f. In a population with two alleles (A and a) and two genotypes (AA and aa), what are the equilibrium genotype frequencies and the frequencies of the alleles (p and q) if the population is in Hardy-Weinberg equilibrium and the frequency of allele A is 0.8?**

**Equilibrium genotype frequencies:**  $0.64$ ,  $0.32$ ,  $0.04$  (where  $p = 0.8$  and  $q = 0.2$ )

**Equilibrium allele frequencies:**  $0.8$  and  $0.2$  (where  $p = 0.8$  and  $q = 0.2$ )
- g. In a population with two alleles (A and a) and two genotypes (AA and aa), what are the equilibrium genotype frequencies and the frequencies of the alleles (p and q) if the population is in Hardy-Weinberg equilibrium and the frequency of allele A is 0.1?**

**Equilibrium genotype frequencies:**  $0.01$ ,  $0.18$ ,  $0.81$  (where  $p = 0.1$  and  $q = 0.9$ )

**Equilibrium allele frequencies:**  $0.1$  and  $0.9$  (where  $p = 0.1$  and  $q = 0.9$ )
- h. In a population with two alleles (A and a) and two genotypes (AA and aa), what are the equilibrium genotype frequencies and the frequencies of the alleles (p and q) if the population is in Hardy-Weinberg equilibrium and the frequency of allele A is 0.9?**

**Equilibrium genotype frequencies:**  $0.81$ ,  $0.18$ ,  $0.01$  (where  $p = 0.9$  and  $q = 0.1$ )

**Equilibrium allele frequencies:**  $0.9$  and  $0.1$  (where  $p = 0.9$  and  $q = 0.1$ )

# Equilibrium Study Guide Key

**G Psacharopoulos**



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