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Section 4: Hardy-Weinberg Equilibrium

Study Guide B

KEY CONCEPT

Hardy-Weinberg equilibrium provides a framework for understanding how populations evolve.

VOCABULARY

Hardy-Weinberg equilibrium

MAIN IDEA: Hardy-Weinberg equilibrium describes populations that are not evolving.

- 1. What variable remains constant, or in equilibrium, in the Hardy-Weinberg model?
- Name the five conditions required for a population to be in Hardy-Weinberg equilibrium.
- Name two ways that population biologists can use Hardy-Weinberg equilibrium.

MAIN IDEA: The Hardy-Weinberg equation is used to predict genotype frequencies for a population.

- 4. Write the Hardy-Weinberg equation:
- Fill in the missing information about the variables involved in the Hardy-Weinberg equation.

Variable	What It Represents
	frequency of dominant homozygous genotype
2pq	
	frequency of recessive homozygous genotype
Р	
	frequency of recessive allele

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