

Chapter 12: Evidence for Evolution - Hardy-Weinberg

12.1 The Hardy-Weinberg Equilibrium (HW) is a principle that is used to test for evolution

TYPE 1: YOURS APPROACHES WORKSHEET FOR THE EXERCISES (2021-2022)

12.1 genetic equilibrium: more control for HW genetic model for European Popul.

Equilibrium and random mating HW 12.1 Exercise

Question 10 points

- [1] The HW model is a theoretical principle that predicts the genetic composition of a population under certain conditions. It is based on the following assumptions: random mating, no selection, no migration, no mutation, and a large population size.
- [2] The HW model is used to test for evolution by comparing the observed genetic composition of a population to the expected genetic composition under the HW model. If the observed composition deviates from the expected composition, it suggests that evolution is occurring.
- [3] The HW model is based on the following assumptions: random mating, no selection, no migration, no mutation, and a large population size. If any of these assumptions are violated, the HW model will not accurately predict the genetic composition of a population.
- [4] The HW model is used to test for evolution by comparing the observed genetic composition of a population to the expected genetic composition under the HW model. If the observed composition deviates from the expected composition, it suggests that evolution is occurring.
- [5] The HW model is based on the following assumptions: random mating, no selection, no migration, no mutation, and a large population size. If any of these assumptions are violated, the HW model will not accurately predict the genetic composition of a population.
- [6] The HW model is used to test for evolution by comparing the observed genetic composition of a population to the expected genetic composition under the HW model. If the observed composition deviates from the expected composition, it suggests that evolution is occurring.
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- [8] The HW model is used to test for evolution by comparing the observed genetic composition of a population to the expected genetic composition under the HW model. If the observed composition deviates from the expected composition, it suggests that evolution is occurring.
- [9] The HW model is based on the following assumptions: random mating, no selection, no migration, no mutation, and a large population size. If any of these assumptions are violated, the HW model will not accurately predict the genetic composition of a population.
- [10] The HW model is used to test for evolution by comparing the observed genetic composition of a population to the expected genetic composition under the HW model. If the observed composition deviates from the expected composition, it suggests that evolution is occurring.

Question 11: 12.1 Exercise: Evidence for the Hardy-Weinberg

1. Explain the Hardy-Weinberg principle and its assumptions. (10)
 - a. The Hardy-Weinberg principle states that the genetic composition of a population will remain constant from generation to generation if the following conditions are met: random mating, no selection, no migration, no mutation, and a large population size.
 - b. The Hardy-Weinberg principle is used to test for evolution by comparing the observed genetic composition of a population to the expected genetic composition under the HW model. If the observed composition deviates from the expected composition, it suggests that evolution is occurring.
 - c. The Hardy-Weinberg principle is based on the following assumptions: random mating, no selection, no migration, no mutation, and a large population size. If any of these assumptions are violated, the HW model will not accurately predict the genetic composition of a population.
2. Describe the steps involved in testing for evolution using the Hardy-Weinberg principle. (10)
 - a. The first step is to determine the observed genetic composition of the population. This is done by counting the number of individuals in the population that have each of the two alleles for the trait being studied.
 - b. The second step is to calculate the expected genetic composition under the HW model. This is done by using the Hardy-Weinberg equation, which states that the sum of the squares of the allele frequencies equals the frequency of the genotypes.
 - c. The third step is to compare the observed genetic composition to the expected genetic composition. If the observed composition deviates from the expected composition, it suggests that evolution is occurring.
3. Explain the significance of the Hardy-Weinberg principle in testing for evolution. (10)
 - a. The Hardy-Weinberg principle is a theoretical model that provides a baseline for the genetic composition of a population. It is used to test for evolution by comparing the observed genetic composition of a population to the expected genetic composition under the HW model. If the observed composition deviates from the expected composition, it suggests that evolution is occurring.
 - b. The Hardy-Weinberg principle is based on the following assumptions: random mating, no selection, no migration, no mutation, and a large population size. If any of these assumptions are violated, the HW model will not accurately predict the genetic composition of a population.
 - c. The Hardy-Weinberg principle is used to test for evolution by comparing the observed genetic composition of a population to the expected genetic composition under the HW model. If the observed composition deviates from the expected composition, it suggests that evolution is occurring.

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