

Chapter 12: Evidence for Evolution - Hardy-Weinberg

12.1 The Hardy-Weinberg Equilibrium: What It Tells Us About Genetic Change in Populations

TYPE 1: THE HARDY-WEINBERG EQUILIBRIUM AND ITS APPLICATIONS

12.1 predicts genetic change over time for 100% genetic stability for European Popul.

Equilibrium and Genetic Change: 12.1 Conditions

Definition: 10 points

- 1. **Large Population:** A population with a large enough size that random fluctuations in allele frequencies are minimal (genetic drift is negligible).
- 2. **No Selection:** All genotypes have equal fitness, meaning no natural selection is acting on the population.
- 3. **No Mutation:** No new alleles are introduced into the population, and no existing alleles are being converted into new ones.
- 4. **No Migration:** No individuals enter or leave the population, so there is no gene flow.
- 5. **Random Mating:** All individuals in the population have an equal chance of mating with any other individual, meaning no mate choice or assortative mating is occurring.
- 6. **No Genetic Drift:** The population is large enough that random fluctuations in allele frequencies are negligible.
- 7. **No Gene Flow:** No new alleles are introduced into the population from other populations, and no alleles are being lost to other populations.
- 8. **No Natural Selection:** All genotypes have an equal chance of surviving and reproducing.
- 9. **No Mutation:** No new alleles are introduced into the population, and no existing alleles are being converted into new ones.
- 10. **No Migration:** No individuals enter or leave the population, so there is no gene flow.

Equilibrium for a Population Under the Hardy-Weinberg

1. **Equilibrium for a Population:** A population is in Hardy-Weinberg equilibrium if the allele frequencies remain constant from generation to generation.
 - a. **Allele Frequencies:** The frequency of each allele in the population remains constant from generation to generation.
 - b. **Genotype Frequencies:** The frequency of each genotype in the population remains constant from generation to generation.
 - c. **Phenotype Frequencies:** The frequency of each phenotype in the population remains constant from generation to generation.
2. **Equilibrium for a Population:** A population is in Hardy-Weinberg equilibrium if the allele frequencies remain constant from generation to generation.
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 - b. **Genotype Frequencies:** The frequency of each genotype in the population remains constant from generation to generation.
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 - b. **Genotype Frequencies:** The frequency of each genotype in the population remains constant from generation to generation.
 - c. **Phenotype Frequencies:** The frequency of each phenotype in the population remains constant from generation to generation.

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Richard T. Schaefer



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