

Chapter 16 Keys to Success

What is the relationship between alleles and population genetics?

What are the two equations related to Hardy-Weinberg population genetics and how do you use them?

What are the 5 criteria for stable allele frequencies under Hardy-Weinberg genetics?

How are each of these five criteria for stable allele frequencies violated in nature?

What is genetic drift and what types of populations are more affected? What two phenomenon are closely tied into the idea of genetic drift?

Describe the four requirements for natural selection to work on a population.

What are stabilizing, directional and disruptive selection?

What is sexual selection? What are two categorical examples of this type of selection?

What is heterozygous advantage? How does this keep certain disease genes alive in the population?