

## Chapter 21: The Evolution of Populations

This chapter begins with the idea that we focused on as we closed the last chapter: Individuals do not evolve! Populations evolve.

**Study Tip:** Always study the figures and pictures and their legends carefully as they have been chosen to illustrate and explain important ideas.

1. What are the three main mechanisms that can cause the evolution of populations?

*Natural selection, genetic drift, and gene flow are mechanisms that can cause the evolution of population.*

2. What is microevolution?

*Microevolution is a change in allele frequencies in a population over generations.*

2. Of the three mechanisms of evolution, you cited in your response to question 1, what is the only mechanism that is *adaptive*, or improves the match between organisms and their environment?

*Natural selection is an adaptive mechanism where the organisms that are better adapted to their environment tend to survive and produce more offspring.*

3. Perhaps because we tend to focus on mutations that cause changes in phenotypes, it is easy to think that every mutation will lead to a phenotypic change. Explain how a substitution error in an exon could have no effect on the amino acid sequence.

*This is because only the genetic change will be passed on to the offspring not the phenotypic change. An example of this could be in a body builder. The muscles are not passed down from generation to generation.*

4. Several sources of genetic variation are available. What is the ultimate source of new



# Evolution Of Populations Chapter Guided Reading

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