

Selection and Speciation

How can changes in a population result in the formation of a new species?

Why?

Have you ever wondered how the great diversity of life on Earth has come about or how a single new species forms? Environmental pressures may cause populations to change over time or evolve. This is because an organism's ability to live to adulthood in its current environment will determine its reproductive success and ability to pass on its genes. But changes within a population can occur without creating a new species. At what point do scientists start thinking of a new name for a species?

Model 1 – Three Types of Selection



1. What variables do the graphs in Model 1 compare?
2. What are the three types of selection illustrated in the graphs in Model 1?
3. According to the graphs in Model 1, there is variation in the body mass in the original population. Using your knowledge of genetics, describe how this variation is possible.
4. Refer to graph A of Model 1.
 - a. How is the population that has experienced selection different from the original population?
 - b. **Fitness** is defined as the relative ability of an individual (or population) to survive, reproduce, and pass on genes. Which individuals in the original population appear to display better fitness?
 - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph A.
5. Refer to graph B of Model 1.
 - a. How is the population that has experienced selection different from the original population?
 - b. Which individuals in the original population appear to display better fitness?
 - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph B.
6. Refer to graph C of Model 1.
 - a. How is the population that has experienced selection different from the original population?
 - b. Which individuals in the original population appear to display better fitness?
 - c. As a group, propose some characteristics of the environment that could lead to the population changes illustrated in graph C.

Selection And Speciation Pogil Ap Bio At Sharon

M Carnoy



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