

Chapter 22: Sexual Reproductive Modes: The Origin of Species

Overview

1. Which ways Darwin's hypothesis of speciation?

speciation:

(1) Define speciation:

Are evolutionary processes in which new species arise, distinct or minor species.

(2) Distinguish between allopatric and sympatric speciation

Allopatric is evolutionary change within the species over change in the allele frequencies in populations over generations. When speciation is allopatric change about the species level. For example, two major groups of organisms, birds are separated in floating plates, through isolation of geographic islands.

Explain it

(1) List the biological species concept in allopatric speciation.

A species is a population or group of populations whose members have the potential to interbreed and produce viable, fertile offspring, but are reproductively isolated from other such groups.

(2) Factors required for the formation of new species?

Reproductive isolation. There are a number of factors that contribute to speciation: usually isolated through geographic or local parapatric factors.

(3) Factors involved?

Hybrids are offspring that result from breeding of individuals from two different species or from two individuals members of the same species.

(4) Explain the two types of isolation that maintain reproductive isolation:

Prezygotic isolation is reproductive barrier that prevents mating between individuals from interbreeding or interbreeding is prevented. Postzygotic isolation is reproductive barrier that prevents hybrid offspring produced by cross different species from surviving or viable fertile viable.

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