

AP Bio Chapter 17 + 18 Study Guide

Species

- Groups of organisms that mate with one another and produce offspring

Carolus Linnaeus

- **Morphological Species Concept**
 - Members of species look alike because they share many alleles
- Limitations
 - Members of the same species do not always look alike
 - **Cryptic species**
 - Two or more species that are morphologically indistinguishable, but do not interbreed

Ernst Mayr's Biological Species Concept

- Actually or potentially interbreeding natural populations that are reproductively isolated from other such groups

Lineage Species Concept

- Species as branches on the tree of life
- Starts with a speciation event
 - A lineage splits in two
 - Ends either at extinction or another speciation event
- The lineage concept includes asexually reproducing species

Speciation

- Divergence of biological lineages
- Emergence of reproductive isolation between lineages
- Requires interruption of gene flow
 - Not all evolutionary changes result in new species
- A self-reinforcing process (reproductive isolation -- genetic incompatibility)
- Speciation is favored by natural selection
- **Reproductive Isolation**
 - Two groups of organisms can no longer exchange genes (produce offspring)
 - Sexual species evolve independently (once they diverged)
 - Lineages remain distinct over evolutionary time
 - If reproductive isolation is incomplete, hybridization can occur
- **Genetic Incompatibility**
 - Regulatory genes: genes regulate/control other genes
 - Sets of genes in biochemical pathways - multi enzyme complexes
 - **The Dobzhansky-Muller Model**
 - A population splits
 - Two groups evolve independently
 - New alleles become fixed at different loci
 - The new alleles at the two loci are incompatible with each other
 - Genetic incompatibility between the two isolated populations
- **Allopatric Speciation**
 - "Allo" - different, "Patric" - country

Ap Bio Chapter 17 Study Guide Answers

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