

## 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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