

# Organic Evolution - Exam Study Guide

## Key Concepts & Definitions

### Lecture 09: Variation

1. Genetic Variation - Differences in DNA sequences among individuals in a population.
2. Sources of Genetic Variation:
  - Mutation - Random changes in DNA sequences.
  - Recombination - Genetic material exchange during meiosis.
  - Gene Flow - Migration introduces new alleles.
3. Types of Mutations:
  - Point Mutations - Single nucleotide changes.
  - Insertions/Deletions - Addition or removal of bases.
  - Chromosomal Mutations - Large-scale changes (e.g., inversions, duplications).
4. Hardy-Weinberg Equilibrium - A model predicting allele frequencies in a non-evolving population.
5. Phenotypic Variation - Observable differences due to genetic and environmental factors.
6. Heritability ( $h^2$ ) - The proportion of phenotypic variation due to genetic variation.
7. Genetic Drift - Random changes in allele frequencies, significant in small populations.
8. Selection Types:
  - Directional Selection - Favors one extreme phenotype.
  - Stabilizing Selection - Favors intermediate phenotypes.
  - Disruptive Selection - Favors extreme phenotypes over intermediates.

### Lecture 10: Mutation Modeling

1. Mutation as an Evolutionary Force - Source of genetic diversity but slow in altering allele frequencies.
2. Mutation Rates - Typically low; ranges from  $10^5$  to  $10^9$  per locus per generation.
3. One-Way (Unidirectional) Mutation Model:
  - Leads to eventual fixation or loss of alleles.
  - Modeled by  $p_t = p_0 (1 - \mu)^t$
4. Two-Way (Bidirectional) Mutation Model:
  - Allows equilibrium between two alleles.

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**A Gutmann**



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