

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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