

Evolutionary Biology Study Guide

This guide integrates material from five lecture decks: Evolution of Complex Traits, Abiogenesis & Coevolution, Evo-Devo, Limits of Evolution, and Linkage Disequilibrium. It includes definitions, equations, examples, and connections to help prepare for exams. -- **1. Evolution of Complex Traits**

Complex traits are influenced by many loci and environment, producing continuous variation. Phenotypic variance: $VP = VG + VE$. Heritability: $h^2 = VG / VP$; $h^2 = VA / VP$. Breeder's Equation: $\Delta Z = h^2 S$. Example: $h^2 = 0.3$, $S = 5L \rightarrow \Delta Z = 1.5L$. Additive vs. Non-Additive Variance: Additive (predictable), Dominance/Epistasis (non-additive). QTL Mapping: identifies loci linked to trait variation. Selection Types: Directional (strawberries), Stabilizing (human birth weight), Disruptive (stick insects), Correlational (finch beaks). Fitness Landscapes: visualize adaptive peaks and constraints. Phenotypic Plasticity: genotype producing multiple phenotypes; slows evolution but can evolve itself. --- **2. Abiogenesis & Coevolution**

Abiogenesis Steps: (1) Abiotic synthesis (Miller-Urey), (2) Polymerization, (3) Self-replication (RNA world), (4) Compartmentalization (lipid membranes), (5) Protocells with metabolism. Endosymbiotic Theory: mitochondria & chloroplasts derived from free-living prokaryotes (Margulis, 1967). Evidence: own DNA, phylogenetic match, double membranes, binary fission, secondary endosymbiosis. Coevolution: reciprocal evolutionary change between interacting species. Mutualism (+/+), Antagonism (+/-), Competition (-/-). Scales: gene-for-gene, pairwise, diffuse. Red Queen Hypothesis: constant adaptation needed to maintain fitness. Game Theory: Hawk-Dove model, Bourgeois (context-dependent) strategy. -- **3. Evolutionary Developmental Biology (Evo-Devo)**

Evo-Devo links evolution with developmental biology. Conserved reveals homology. Constraints: early

Evolutionary Study Guide

Thomas Griffiths



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