

Bio Exam #4 Study Guide Chapter 16: How Genes Work

Metabolic Pathways

- Started out by looking at the relationship between genes and the enzymes involved in metabolic pathways
- Studied 1:1 relationship between genes and proteins
 - o how do we establish genes encode 1 type of protein



- o failure at step 5 enzyme you will see the consequence of accumulation of intermediate

Ex. Arginine Synthesis in a mold *Neurospora crassa*

Beadle and Tatum, and later Srb and Horowitz, studied the metabolic pathway for arginine synthesis in the mold *Neurospora crassa*



- Genetic screen: figure out mutants but don't know what causes mutants
 - o Used to identify *N. Crassa* mutants that were defective in some step in arginine synthesis
 - o 1. Take large population of cells
 - o 2. Randomly mutanize cells (Mutaiginize so DNA repair cannot fix mistake)
 - o 3. Screen through mutant population looking for phenotypes in the problem
 - o 4. Take those cells & figure out where the mutations are
- Realized: use metabolic pathway as template to ask if there is a 1:1 gene to protein relationship
- **Is each of the 3 enzymes encoded by a different gene?**
 - o 1 Possibility: every gene encode one protein
 - o 2. Master gene for arginine synthesis that encodes all 3 enzymes
- Conclusion: the one gene, one enzyme hypothesis supported
 - o Each gene encodes single enzyme
 - o 1:1 relationship

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R. L. Dawson



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