

Chapter 14 Reading Guide

From DNA to Protein: Gene Expression

Key Concept 14.1 (pp. 298–301)

Genes Code for Proteins

- Observations in humans led to the proposal that genes determine enzymes - *alkaptonuria* in children
- Experiments on bread mold established that genes determine enzymes - Beadle and Tatum, *Neurospora*
- One gene determines one polypeptide

Learning Objectives

- 14.1.1 Describe the attributes of model organisms used for genetic studies. - easy to grow in lab, short generation times, large # of progeny, easy to manipulate genetically
- 14.1.2 Determine the order of intermediates in a biosynthetic pathway, given growth data for various mutant strains on these intermediates.

Srb and Horowitz's experiment described the genetic control of a biochemical pathway

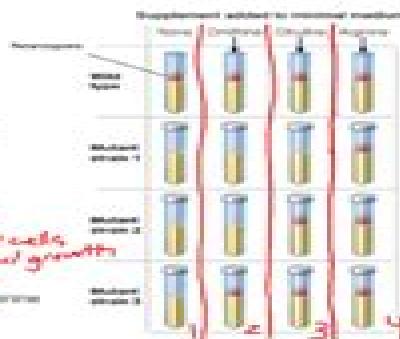
- Hypothesis: each gene determines an enzyme in a biochemical pathway.
- They used mutant strains of *Neurospora* that could not synthesize arginine.
- They added certain supplements in the medium.

Diagram of the pathway:

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graph LR; Precursor -->|Gene A| ProductA[Product A]; ProductA -->|Gene B| ProductB[Product B]; ProductB -->|Gene C| ProductC[Product C]; ProductC --> Arginine[Arginine];
```

Red annotations:

- Gene A: Enzyme A
- Gene B: Enzyme B
- Gene C: Enzyme C
- Product A: Citrulline
- Product B: ornithine
- Product C: Arginine
- Arginine: "needs w/ growth"
- Below the diagram: 1 2 3 4



My personal tips (conveyed in red ink above): compare the columns of different supplement, column with most cells with growth => latest in pathway, column with least cells with growth => earliest in pathway, the more cells with growth the column has the later the intermediate is in the pathway

Study Guide Key Gene Expression

**Jocelyn Krebs, Elliott
Goldstein, Stephen Kilpatrick**

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