

## Chapter 14 Reading Guide

# From DNA to Protein: Gene Expression

Key Concept 14.1 (pp. 298–301)

### Genes Code for Proteins

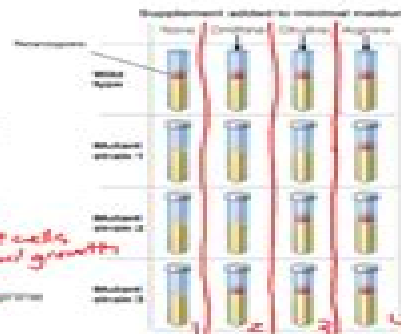
- Observations in humans led to the proposal that genes determine enzymes - *alkaptonuria in children*
- Experiments on bread mold established that genes determine enzymes - *Beadle and Tatum, Neurospora*
- One gene determines one polypeptide

### 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.



*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*

# From Gene To Protein Study Guide Answers

**L Darling-Hammond**



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