

## Chapter 14 Reading Guide

# From DNA to Protein: Gene Expression

Key Concept 14.1 (pp. 298–301)

## Genes Code for Proteins

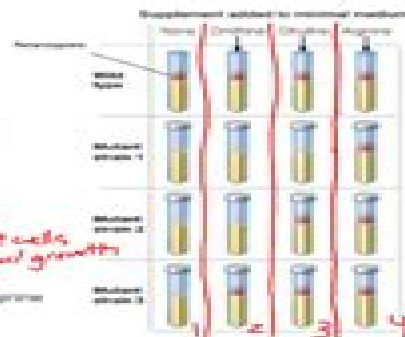
- Observations in humans led to the proposal that genes determine enzymes - *alkaptonuria in children*
- Experiments on bread mold established that genes determine enzymes - *Beadle and Tatum, Neurospora*
- One gene determines one polypeptide

## 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

**Liyong Dong**



**From Gene To Protein Study Guide Answers:**

## Unveiling the Magic of Words: A Overview of "**From Gene To Protein Study Guide Answers**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**From Gene To Protein Study Guide Answers**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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