

Chapter 14 Reading Guide

From DNA to Protein: Gene Expression

Key Concept 14.1 (pp. 298–301)

Genes Code for Proteins

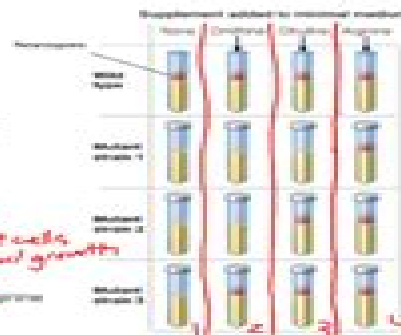
- Observations in humans led to the proposal that genes determine enzymes - *alkaptonuria in children*
- Experiments on bread mold established that genes determine enzymes - *Beadle and Tatum, Neurospora*
- One gene determines one polypeptide

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

Study Guide Key Gene Expression

Robert R. Redfield



Study Guide Key Gene Expression:

Study Guide for Use with Biology for the Informed Citizen Sharon Gilman, 2014-01-14 Designed to work with Biology for the Informed Citizen by Donna M Bozzone and Douglas S Green this Study Guide provides students with brief summaries and step by step analyses of each chapter additional review questions and thoughtful advice and study tips The Study Guide is authored by Sharon Gilman who is also the author of the book's test item file a resource for instructors that includes over 1200 questions for easy student evaluation

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