

Name

Period

Chapter 17: From Gene to Protein

This is going to be a very long journey, but it is crucial to your understanding of biology. Work on this chapter a single concept at a time, and expect to spend at least 6 hours to truly master the material. To give you an idea of the depth and time required, we have spent over 5 hours writing this Reading Guide! You will need even longer to complete it and learn the information. Good luck, and take your time.

Overview

1. What is *gene expression*? Information in a gene (Sequence of DNA) is made into a protein, or RNA.

Concept 17.1 Genes specify proteins via transcription and translation

2. What situation did Archibald Garrod suggest caused inborn errors of metabolism? A person unable to make a certain enzyme, enzymes → phenotypes
3. Describe one example Garrod used to illustrate his hypothesis. Alkaptonuria - some people have the enzyme that ~~converts~~ metabolizes alkapton, people w/o must have disease and can't make the enzyme.
4. State the hypothesis formulated by George Beadle while studying eye color mutations in *Drosophila*. Genes control how the enzymes were made and the enzymes showed the traits.
5. What strategy did Beadle and Tatum adopt to test this hypothesis? Bread mold *Neurospora* with X-rays and then looked at survivors for mutants that differed in their nutritional needs from the wild type bread mold.
6. Which organism did Beadle and Tatum use in their research? How did this organism's nutritional requirements facilitate this research? *Neurospora*. It identifies mutants weren't able to survive on not a lot of solution because they weren't able to synthesize molecules.
7. How were *Neurospora* spores treated to increase the mutation rate? They had a lot of X-rays.

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Jiyuan Zhang



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