

Name                     

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## 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 the 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.*

# Holtzclaw Ap Biology Guide 24

**Lingjun Ying**



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