

**Chapter 14 Reading Guide: Gene Expression – From Gene to Protein****Concept 14.1: Genes specify proteins via transcription and translation**

1. What is gene expression? process by which DNA directs the synthesis of proteins
2. The research of Beadle and Tatum resulted in their Nobel Prize award in 1958. Describe their scientific contribution. They disabled genes one by one and looked for changes in each mutant's phenotype, revealing the normal function of the gene
3. What is the one gene-one enzyme hypothesis? States that the function of a gene is to dictate the production of a specific enzyme
4. How has this hypothesis been modified? Many eukaryotic genes can each code for a set of closely related polypeptides, quite a few genes code for RNA
5. What are three ways in which RNA differs from DNA?
  - Contains ribose instead of deoxy ribose
  - nitrogenous base uracil rather than thymine
  - RNA consists of a single strand
6. Define the following terms:
  - a. Transcription – Synthesis of RNA using info in the DNA
  - b. Translation – Synthesis of a polypeptide using the info in the mRNA
7. Complete the following table to summarize each process.

|               | Template                                   | Product Synthesized | Location in Eukaryotic Cell |
|---------------|--|---------------------|-----------------------------|
| Transcription | assembling a complementary sequence of RNA | RNA                 | nucleus                     |
| Translation   | mRNA                                       | polypeptide         | ribosomes                   |

8. Label the diagram of the Central Dogma below.



## Bio Guide Answers 56

**Klein-MacKenzie**

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