#### Chapter 14 Reading Guide: Gene Expression - From Gene to Protein

#### Concept 14.1: Genes specify proteins via transcription and translation

- 1. What is gone expression? I 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 mutants, phonotype, revealing the normal function of the gone
- 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?

  Mony everyotic geles can each code for a set of closely related polypeptides, quite a few genes code for RMM
- 5. What are three ways in which RNA differs from DNA?

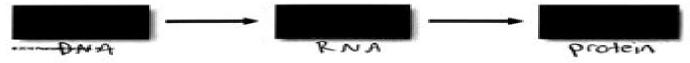
   Contains ribosc instead of deaxy ribose

   nitrogenous base uracis rather than thy mine

   RNA consists of a single strong
- Define the following terms:
  - a. Transcription synthesis of ENA using info in the DNA
  - b. Translation synthesis of a polypeptide using the info in the MFNA
- 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	polypepide	cibosomes

8. Label the diagram of the Central Dogma below.



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**Albert A Gayle** 

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