

Name: **KEY**

Ch. 14: Gene Expression, From Gene to Protein

Key Concepts:

1. **Genes** specify proteins via **transcription** and **translation**.
2. Transcription is the **DNA**-directed synthesis of **RNA** (occurs in **Nucleus**) **RNA is then modified**
3. Translation is the **RNA**-directed synthesis of a **Polypeptide** (occurs in **Cytoplasm @ a Ribosome**)
4. Mutations of one or a few **nucleotides** within a gene can affect resultant protein **structure and function**.

The flow of Genetic Information

5. The DNA inherited by an organism leads to specific **traits** by dictating the indirect synthesis of **Proteins** and the direct synthesis of **RNA** molecules involved in protein synthesis.
6. **Proteins** are the link between genotype and phenotype.
7. Define Genotype (look it up):
The genetic composition/make-up, or set of alleles, of an organism
8. Define Phenotype (look it up):
The physical or physiologic traits of an organism (determined by genetic make-up)
9. **Gene expression** is the process by which **DNA** directs the synthesis of **proteins**.
10. The expression of genes that codes for proteins occurs in two stages: **transcription** and **translation**.

CONCEPT 14.1: Genes specify proteins via transcription and translation.

11. Garrod was the first to suggest that **Genes** dictate **Phenotypes (through enzymes)**. Research has since supported Garrod's hypothesis that a gene dictates the production of a specific **Enzyme** (a type of **functional protein**).
12. Beadle and Tatum experimented with **bread mold, Neurospora crassa**. In this species they could cause a **Mutation** on **One** allele (expressed form of a gene) and directly deduce the function of the wild-type gene based on what metabolic activity was subsequently affected.
13. Note: Wild-type cells can survive on a minimal medium of simple inorganic salts, glucose, and biotin. Wild-type cells can **Synthesize** all the nutrients they need for **Growth**.
14. Beadle and Tatum designed an experiment in which they identified/generated **Nutritional Mutants** that could not survive on minimal medium, because they were unable to synthesize a particular **essential nutrient** from the minimal ingredients but could grow on **complete medium**, which contains any that the mutant cell can't synthesize.

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