

Chapter 14: Gene Expression: From Gene to Protein

- The DNA inherited by an organism leads to specific traits by dictating the synthesis of proteins and of RNA molecules involved in protein synthesis.
 - Proteins are the link between genotype and phenotype
- **Gene expression: process by which DNA directs synthesis of proteins or in some cases, just RNAs**
 - include two stages: transcription and translation

14.1: Genes specify via transcription and translation

- 1902-physician Archibald Garrod first suggested that **genes dictate phenotypes through enzymes**, proteins that catalyze chemical reactions in the cell
 - **Postulated that symptoms of a disease reflect inability to make a particular enzyme**
- Cells synthesize and degrade organic molecules via metabolic pathways that is catalyzed by enzyme

Nutritional Mutants: Scientific Inquiry

- Beadle and Edward Tatum began studying the haploid bread mold *Neurospora crassa*.
 - They studied mutations that altered the ability of the fungus to grow on minimal medium. In order to observe a change in a mutant's phenotype, they needed to disable one allele of a protein-coding gene.
- Beadle and Tatum generated different "nutritional mutants" of *Neurospora* cells, each of which was unable to synthesize a particular essential nutrient.
- One gene-one polypeptide hypothesis: each gene is responsible for the synthesis of a single polypeptide (originally it was enzyme and then protein but it was modified)
- Genes provide instructions for making specific proteins, but RNA is the bridge between DNA and protein synthesis
- Getting from DNA to protein requires two stages:
 - Transcription and translation
- **Transcription:** synthesis of RNA using information in the DNA
 - Transcription produces mRNA
- **Translation:** synthesis of a polypeptide (protein) using information in the mRNA
 - Occurs in ribosome- they facilitate the linking of amino acids into polypeptide chains
- **Bacteria vs eukaryotes:**
 - Flow of genetic information within the cells is different with bacteria because they do not have nuclei. Therefore, nuclear membranes do not separate bacterial

Chapter 14 Ap Bio Guided Reading Answers

Katrin Zwirgmaier



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