

## 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

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