

Wrap-Up and Review

How Genes Work

Learning Objectives:

- Explain the central dogma of molecular biology
- Explain the link between genotype and phenotype
- Describe the properties of the genetic code and why each is important: degenerate (redundant), unambiguous, non-overlapping, nearly universal and conservative
- Demonstrate an ability to transcribe and translate when given a sequence of DNA, mRNA, or amino acids (genetic code chart will be provided)
- Distinguish between point, missense, nonsense, silent, and frameshift mutations
- Explain the effect of the different types of mutations-beneficial, deleterious, neutral- at the phenotypic level

Study Guide Questions

1. What is the central dogma of molecular biology and how does a gene specify the production of a protein?
The central dogma of molecular biology is the flow of information in cells that goes from DNA to RNA to proteins. A gene specifies the production of a protein through the structure of DNA.
2. What is gene expression and what does it mean when a gene is actively being expressed?
Gene expression is the process that converts information stored in DNA into functional molecules, such as RNA and proteins which perform tasks in the cell. When a gene is actively being expressed it means that it is being synthesized and is functional within the cell.
3. What is transcription and translation and how do these processes bridge the gap between gene and the protein?
Transcription is the process of using DNA template to make complementary RNA: making a copy of information.
Translation is the process of using information in mRNA to synthesize proteins: interprets nucleotide language to amino acid
4. What is genotype? Phenotype? How can a change in genotype affect the phenotype?
Genotype: Determined by the sequence of bases in DNA (alleles of genes)
Phenotype: Product of proteins it produces (observable traits)
A change in genotype can directly affect the phenotype by altering the expression of a trait which leads to a visible change in the appearance or function of the organism.
5. What is the triplet code and what is a codon? Describe the one start codon and the three stop codons.
Triplet code: Reading frame (sequence of codons) of gene could be destroyed by adding or subtracting one or two bases. Reading frame was not destroyed by adding or subtracting multiple of three bases.

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Zhe Xu



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