

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.

How Genes Work Study Guide

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How Genes Work Study Guide:

How Genes Work Study Guide: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. How Genes Work Study Guide : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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