

Section 1: From Genes to Proteins

- _____ 1. ribonucleic acid (RNA)
- _____ 2. uracil
- _____ 3. transcription
- _____ 4. translation
- _____ 5. gene expression

a. the entire process by which proteins are made
b. a molecule made of linked nucleotides

- _____ 6. Transcription begins when [RNA / RNA polymerase] binds to the gene's promoter.
- _____ 7. RNA polymerase adds complementary [DNA / RNA] nucleotides as it "reads" the gene.
- _____ 8. In eukaryotes, transcription takes place in the [nucleus / cytoplasm].
- _____ 9. What are two differences between transcription and DNA replication?

c. the process of reading instructions on an RNA molecule to put together the amino acids that make up a protein
d. the process of transferring a gene's instructions for making a protein to an RNA molecule
e. a nitrogen base used in RNA instead of the base thymine found in DNA

- _____ 10. What determines where on the DNA molecule transcription begins and where it ends?

_____ 11. RNA, messenger RNA _____

_____ 12. codons, genetic code _____

Study the following six steps in the synthesis of proteins. Determine the order. Write the number

- _____ 13. The codon in the vacant A site receives the tRNA molecule with the complementary anticodon. The tRNA carries the amino acid specified by the codon.
- _____ 14. Steps 2–5 are repeated until a stop codon is reached. The newly made protein is released into the cell.
- _____ 15. The tRNA at the P site detaches, leaves behind its amino acid, and moves away from the ribosome.
- _____ 16. Enzymes help form a peptide bond between the amino acids of adjacent tRNA molecules.
- _____ 17. The tRNA (with its protein chain) in the A site moves over to fill the empty P site. A new codon is present in the A site, ready to receive the next tRNA and its amino acid.
- _____ 18. An mRNA, two ribosomal subunits, and a tRNA carrying a modified form of the amino acid methionine bind together. The tRNA bonds to the "start" codon AUG.

Section 2: Gene Regulation and Structure

- _____ 1. To break down lactose, *Escherichia coli* need three different _____, each of which is coded for by a different gene.
- _____ 2. The three genes are located next to each other, and all are controlled by the same _____ site.
- _____ 3. The piece of DNA that overlaps the promoter site and serves as the on-off switch is called a(n) _____.
- _____ 4. The group of genes that codes for enzymes involved in the same function, their promoter site, and the operator all function together as a(n) _____.
- _____ 5. The operon that controls the metabolism of lactose is called the _____.
- _____ 6. A(n) _____ is a protein that binds to an operator and physically blocks RNA polymerase from binding to a promoter site.
- _____ 7. What are enhancers? _____
- _____ 8. Why is there more opportunity for gene regulation in eukaryotic cells than in prokaryotic cells? _____
- _____ 9. Why have no operons been found in eukaryotic cells? _____
- _____ 10. When can gene regulation occur in eukaryotic cells? _____
- _____ 11. What are introns and exons? _____
- _____ 12. What happens to mRNA that includes introns? _____
- _____ 13. What might be the evolutionary advantage of genes being interrupted by introns? _____
- _____ 14. Mutations can only be passed on to offspring if they occur in [gametes / body cells].
- _____ 15. Mutations that change one or just a few nucleotides in a gene on a chromosome are called [random / point] mutations.
- _____ 16. If a mutation causes a gene containing the nucleotide sequence ACA to become ACT, the mutation is called a [substitution / deletion] mutation.
- _____ 17. If a mutation causes a sequence of nucleotides to change from ACGAGA to ACGGA, the mutation is called a(n) [insertion / deletion] mutation.
- _____ 18. If a mutation causes a sequence of nucleotides to change from ACGAGA to ACGAGGA, the mutation is called a(n) [insertion / deletion] mutation.

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The Genetic Revolution Bernard D. Davis, 1991 Remarkable advances in molecular genetics have brought benefits ranging from more flavorful tomatoes to inexpensive human insulin produced in bacteria But not everyone welcomes the inevitable genetic revolution Perhaps because experts and the general public belatedly recognized that the benefits of other technologies have come at great cost pollution of the environment exhaustion of natural resources even damage to the atmosphere many assume that similarly unintended and unforeseen harmful consequences are inevitable for biotechnology What monsters and disasters they wonder will accompany the miracles of this latest advance In *The Genetic Revolution* Bernard D Davis and other experts address such fears with clear explanations of molecular genetics its practical applications in biotechnology its legal implications and its surprising historical context In fact biotechnology is as old as civilization itself and was originally called domestication the adaptation of initially wild organisms by empirical genetic selection to meet human needs And the scientific record shows that unlike more recent technologies based on the physical sciences the great benefits of domestication have been remarkably free of harmful side effects Defenders argue that the new techniques of genetic engineering will simply increase the speed precision and range of domestication However the purpose will remain the same to strengthen those traits in animals plants or microbes that make the organism more useful for humans To ensure that all sides of the debate are heard Davis has chosen outstanding contributors with a wide range of viewpoints from apprehensive to enthusiastic and a variety of backgrounds including political science law and government regulation as well as biology and medicine With the latest information on the likely impact of genetic engineering in agriculture animal husbandry ecology and medical research and practice *The Genetic Revolution* introduces scientific facts and informed opinions to an emotional and often confusing public discussion

Genetic Engineering Enzo Russo, Vincenzo E. A. Russo, David Cove, 1998 This book explains the underlying science of genetic engineering and deals with the social and moral and ethical aspects of this technology

Advances in Gene Technology: Molecular Biology and Human Disease Miami Bio/Technology Winter Symposium (1994)., 1994

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