

Study Guide: DNA, RNA, and Protein Synthesis

1. DNA Structure

1. What is the structure of DNA?

2. What are the components of a nucleotide?

3. How are nucleotides joined together?

4. What is the sugar-phosphate backbone?

5. What are the nitrogenous bases?

6. How do the bases pair with each other?

7. What is the double helix model?

8. What is the width of the DNA molecule?

9. What is the distance between two full turns of the helix?

10. What is the angle of rotation per base pair?

11. What is the major groove?

12. What is the minor groove?

13. What is the superhelical twist?

14. What is the linking number?

15. What is the writhe?

16. What is the twist?

17. What is the topological constraint?

18. What is the catenation?

19. What is the knotting?

20. What is the DNA topology?

2. DNA Replication

1. What is DNA replication?

2. What are the semi-conservative model and the conservative model?

3. What is the Meselson-Stahl experiment?

4. What is the leading strand?

5. What is the lagging strand?

6. What are Okazaki fragments?

7. What is the RNA primer?

8. What is the DNA polymerase?

9. What is the DNA ligase?

10. What is the topoisomerase?

11. What is the telomerase?

12. What is the telomere?

13. What is the telomerase RNA?

14. What is the telomerase protein?

15. What is the telomerase activity?

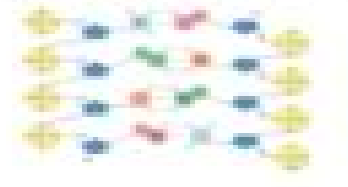
16. What is the telomerase lengthening?

17. What is the telomerase shortening?

18. What is the telomerase maintenance?

19. What is the telomerase regulation?

20. What is the telomerase dysfunction?



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3. RNA Structure

1. What is RNA structure?

2. What are the primary, secondary, and tertiary structures?

3. What is the primary structure?

4. What is the secondary structure?

5. What is the tertiary structure?

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7. What is the beta-sheet?

8. What is the beta-turn?

9. What is the gamma-turn?

10. What is the delta-turn?

11. What is the epsilon-turn?

12. What is the zeta-turn?

13. What is the eta-turn?

14. What is the theta-turn?

15. What is the iota-turn?

16. What is the kappa-turn?

17. What is the lambda-turn?

18. What is the mu-turn?

19. What is the nu-turn?

20. What is the xi-turn?

4. Protein Synthesis

1. What is protein synthesis?

2. What is the central dogma of molecular biology?

3. What is the flow of genetic information?

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5. What is the translation?

6. What is the ribosome?

7. What is the ribosomal subunit?

8. What is the ribosomal protein?

9. What is the ribosomal RNA?

10. What is the ribosomal activity?

11. What is the ribosomal lengthening?

12. What is the ribosomal shortening?

13. What is the ribosomal maintenance?

14. What is the ribosomal regulation?

15. What is the ribosomal dysfunction?

5. Genetic Code

1. What is the genetic code?

2. What is the codon?

3. What is the anticodon?

4. What is the start codon?

5. What is the stop codon?

6. What is the reading frame?

7. What is the open reading frame?

8. What is the stop codon?

9. What is the start codon?

10. What is the reading frame?

11. What is the open reading frame?

12. What is the stop codon?

13. What is the start codon?

14. What is the reading frame?

15. What is the open reading frame?

16. What is the stop codon?

17. What is the start codon?

18. What is the reading frame?

19. What is the open reading frame?

20. What is the stop codon?

6. Gene Expression

1. What is gene expression?

2. What is the promoter?

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6. What is the gene activation?

7. What is the gene expression?

8. What is the gene regulation?

9. What is the gene dysfunction?

9. Genetic Disorders

1. What is a genetic disorder?

2. What is the autosomal recessive inheritance?

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13. What is the chromosomal fusion?

14. What is the chromosomal fission?

15. What is the chromosomal breakage?

Dna Rna Protein Synthesis Study Guide Answers

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