

## Chapter 12 Study Guide

### CHAPTER 12 Gene Expression at the Molecular Level I. Production of mRNA and Proteins

- 1. Write out the "Central Dogma" of Biology and explain what it attempts to describe.**
  - a. DNA  $\rightarrow$  Transcription  $\rightarrow$  mRNA  $\rightarrow$  Translation  $\rightarrow$  Polypeptide
  - b. Traces the pathway of information flow within cells.
- 2. Describe the roles of mRNA, tRNA, and rRNA in the process of protein synthesis.**
  - a. mRNA – Carries the information from the DNA to the Ribosome.
  - b. rRNA – Structural components of the Ribosome.
  - c. tRNA – Transfers Amino Acids to the Ribosome (During Translation)
- 3. Diagram and explain how new nucleotides are added to a growing chain of RNA.**
  - a. This occurs when RNA Polymerase attaches to the DNA Template Strand in the 3'  $\rightarrow$  5' direction. For each Nucleotide on the Template Strand, RNA Polymerase adds a matching RNA Nucleotide to the 3' end of the RNA strand.
- 4. Identify which of the two DNA strands is the Template Strand, and how you determine this.**
  - a. There is the Primer Strand and the Template Strand.
  - b. The Primer Strand will have a Pyrophosphate removed, while the RNA Polymerase acts on the Template Strand.
- 5. List all the proteins involved in Transcription, and the role of each.**
  - a. RNA Polymerase: Binds to the Promoter and starts to unwind the DNA Strands. Ribonucleoside Triphosphates then line up oppositely to the DNA Template Strand, and RNA Polymerase connects them together in the 5'  $\rightarrow$  3' direction.
  - b. Promoter: Region of a gene where RNA Polymerase attaches to begin Transcription.
- 6. List and explain the mechanism of the two ways in which only mRNA can be post-transcriptionally modified.**
  - a. The addition of a 5' 7-Methyl Guanosine "Cap"
    - i. Allows mRNA to exit the Nucleus and bind to the Ribosome.
  - b. Addition of a Poly-A "Tail"
    - i. Allows mRNA to be exported from the Nucleus and persist in Cytosol
- 7. List and explain the mechanism of the two ways in which only tRNA can be post-transcriptionally modified.**
  - a. The addition of CCA to the 3' end
    - i. Essential to allow tRNAs to participate in the decoding process.
  - b. The Chemical Modification of Bases
    - i. Ensure Translational competency and promote cellular viability.
- 8. List and explain the mechanism of the three ways in which all RNAs can be post-transcriptionally modified.**
  - a. Splicing - The removal of introns (all types of RNA) from the action of Spliceosomes, forming a much shorter RNA Transcript
    - i. Alternative Splicing- Not all Exons are always included in the final mRNA either. Different combinations of Exons are used to produce different mRNAs which will code for different proteins.
  - b. The Primary/Pre-Transcript may be cut into more than one RNA
    - i. Always occurs in rRNA
  - c. The removal of Nucleotides from the 5' and/or 3' end of the RNA
  - d. RNA Editing
    - i. Substitution Editing – One Nucleotide is substituted for another.
    - ii. Insertion/Deletion Editing – Nucleotides are simply added or removed
- 9. Identify what a "codon" is, where it is found, and how it helps determine the amino acid sequence in a protein.**
  - a. A Codon is a sequence of 3 bases that code for an Amino Acid
  - b. Found in mRNA
  - c. Pairs with the Anticodon Loop on tRNA to produce Amino Acids in the Ribosome.
- 10. Identify what an Aminoacyl-tRNA Synthetase is, and describe the two step mechanism used to load the appropriate amino acid onto each tRNA.**

# Chapter 12 Study Guide Ch

**Laura Lincoln Maitland**



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**Jesus prayed for Strength in the Garden of Gethsemane before His 6 Trials** Debbie Dunn, 2024-08-06 Jesus prayed for Strength in the Garden of Gethsemane before His 6 Trials is a book crafted explicitly for youth groups Jesus lovers church leaders Bible study groups and families eager for a deeper understanding of our Lord Jesus Christ The author understanding the unique needs of these groups has filled this book with conceptual color illustrations that will resonate with them and has included a study guide for their convenience This book describes the following points After the Last Supper on Passover Seder Jesus took His Disciples to the Garden of Gethsemane to pray Jesus prayed 3 times Father if you are willing take this cup from me yet not my will but yours be done Jesus requested Peter John and James to watch and pray Three times he found them sleeping instead Jesus was so dreading the upcoming torture that He sweated blood Jesus love for all humankind past present and future exceeded His fear He agreed to suffer unspeakable torture and pain make atonement for all people's sins and allow the Roman soldiers to crucify Him Judas Iscariot came with armed soldiers to capture Jesus He singled Him out by giving Jesus a kiss of betrayal After Jesus midnight arrest He endured six trials early Friday of 30 AD 1 AM Trial 1 of 6 at the residence of the former High Priest Annas 2 AM Trial 2 of 6 at the residence of High Priest Caiaphas As predicted Peter denied Christ 3 times before the cock crowed 3 4 AM Trial 3 of 6 at Sanhedrin Hall The Jewish elders declared Jesus was guilty and deserving of death Out of guilt before hanging himself Judas tried to return the 30 pieces of silver the Sanhedrin paid him 6 AM Pontius Pilate presided over trial 4 of 6 6C 7 AM King Herod presided over trial 5 of 6 8 AM Pontius Pilate presided over trial 6 of 6 Pilate ordered his Roman soldiers to scourge Jesus He allowed them to torture Jesus brutally and shove a Crown of Thorns into His skull As a Passover tradition the people demanded Pilate release the murderer Barabbas and crucify the guiltless Jesus Pilate washed His hands of this innocent man's blood The author will donate fifty percent 50% of all book sales to Covenant House a charity dedicated to joining the fight to end youth homelessness **Study Guide for Problems in American History** Lena A. Ely, Edith King, Martin James Stormzand, 1926 *Managerial Accounting*,

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**The Crucifixion of Jesus in 30 AD** Debbie Dunn, 2024-08-07 The Crucifixion of Jesus in 30 AD is a book crafted explicitly for youth groups Jesus lovers church leaders Bible study groups and families eager for a deeper understanding of our Lord Jesus Christ The author understanding the unique needs of these groups has filled this book with conceptual color illustrations that will resonate with them and has included a study guide for their convenience The main points covered in this book include When Jesus kept dropping the Cross the Roman soldiers found a man to help Him Before the Roman soldiers nailed Jesus to the Cross Before the Roman soldiers nailed Jesus to the Cross He refused the vinegar drink to numb His pain A King of the Jews sign was posted above Jesus head Jesus was mocked by the onlookers Pharisees Roman soldiers and the two thieves nailed to crosses on either side of Him Jesus did not speak during the three sunlit hours from 9 AM until noon nor when it was dark as night from noon until 3 PM Discover the 20 types of Physical Stress and 8 kinds of Emotional Stress suffered in Jesus final hours of life At 3 PM the 7 statements Jesus made from the Cross fulfilled some Old Testament Prophecies 1 Father Forgive them for they know not what they do 2 When one of the thieves recognized His Holy Nature he asked to be remembered when He came into His Kingdom Jesus responded Verily I say unto thee today shalt thou be with me in Paradise 3 From the Cross Jesus spoke to His mother and Disciple John 4 Needing a small amount of

saliva to make His final 3 statements Jesus said I Thirst 5 Jesus moaned Father why hast thou forsaken me 6 Father into Thy Hands I Commend My Spirit 7 With His last breaths He exclaimed It is Finished Jesus died on command a little after 3 PM on Friday of 30 AD Jesus lovingly endured this excessive torture and death to atone for all sins committed by humans past present and future Won't you accept His free gift of salvation The author will donate fifty percent 50% of all book sales to Covenant House a charity dedicated to joining the fight to end youth homelessness A+ Core Module Study Guide David Groth, 1998 David Groth an A instructor at Corporate Technologies in Fargo North Dakota reveals the information necessary to pass the Core module for A certification The A certification is the industry leading hardware and software support qualification and is fast becoming a prerequisite for employment in the computer industry **Study Guide for Psychology, Seventh Edition** Richard O. Straub, David G. Myers, 2003-06-20 This new edition continues the story of psychology with added research and enhanced content from the most dynamic areas of the field cognition gender and diversity studies neuroscience and more while at the same time using the most effective teaching approaches and learning tools *Study Guide and Solutions Manual for Organic Chemistry Digital Update* K. Peter C. Vollhardt, Neil E. Schore, 2024-03-25 Written by Organic Chemistry coauthor Neil Schore this invaluable manual includes chapter introductions that highlight new materials chapter outlines detailed comments for each chapter section a glossary and solutions to the end of chapter problems presented in a way that shows students how to reason their way to the answer **CCNA Data Center - Introducing Cisco Data Center Networking Study Guide** Todd Lammle, John Swartz, 2013-06-05 Cisco has announced big changes to its certification program As of February 24 2020 all current certifications will be retired and Cisco will begin offering new certification programs The good news is if you're working toward any current CCNA certification keep going You have until February 24 2020 to complete your current CCNA If you already have CCENT ICND1 certification and would like to earn CCNA you have until February 23 2020 to complete your CCNA certification in the current program Likewise if you're thinking of completing the current CCENT ICND1 ICND2 or CCNA Routing and Switching certification you can still complete them between now and February 23 2020 A must have study guide for exam 640 911 on Cisco's Unified Data Center The Cisco Certified Network Associate Data Center certification is Cisco's newest certification covering the Cisco Unified Data Center technologies Written by unparalleled author and Cisco authority Todd Lammle and CCIE John Swartz this comprehensive study guide is essential reading for anyone preparing to take the 640 911 exam Introducing Cisco Data Center Networking providing in depth coverage of all the exam's objectives In addition it offers expanded coverage on key topics reflected on the exam Addresses understanding basic networking and ethernet technologies Reviews the OSI and DoD model and TCP/IP Transport Layer Covers basic IP routing technologies layer 2 switching technologies and routing principles Provides an introduction to Nexus switch as well as how to configure it CCNA Data Center Study Guide offers you access to additional study tools including bonus practice exams electronic flashcards a searchable PDF of a glossary of terms Plus you

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