

# Chapter 9 Study Guide Chemistry Of The Gene

Chapter 9 Study Guide Chemistry Of The Gene Chapter 9 Study Guide Chemistry of the Gene This chapter delves into the fascinating world of the gene the fundamental unit of heredity We will explore the chemical basis of this remarkable molecule unraveling the structure function and replication of DNA the blueprint of life

- 1 DNA The Molecule of Life** DNA is a double helix composed of two polynucleotide chains wound around each other Each chain consists of nucleotides each containing a deoxyribose sugar a phosphate group and one of four nitrogenous bases adenine A guanine G cytosine C and thymine T The bases pair specifically A with T and G with C held together by hydrogen bonds **Function** DNA carries the genetic code that directs the synthesis of proteins essential for all cellular functions The sequence of bases in DNA determines the sequence of amino acids in a protein ultimately influencing an organisms traits
- The Double Helix Model** The groundbreaking discovery of DNAs double helix structure by Watson and Crick revolutionized our understanding of genetics The model elucidates how DNA replicates ensuring the transmission of genetic information from one generation to the next
- 2 DNA Replication Copying the Code** SemiConservative Replication DNA replication is semiconservative meaning each new DNA molecule contains one original strand and one newly synthesized strand
- Steps of Replication**
  - 1 Unwinding** The double helix unwinds by the action of the enzyme helicase breaking the hydrogen bonds between the base pairs
  - 2 Primer Binding** A short RNA primer binds to the origin of replication providing a starting point for DNA polymerase
  - 3 Elongation** DNA polymerase adds nucleotides to the primer using the original strand as a 2 template
  - 4 Leading and Lagging Strands** DNA synthesis occurs continuously on the leading strand but discontinuously on the lagging strand forming Okazaki fragments
  - 5 Proofreading** DNA polymerase possesses proofreading activity ensuring high fidelity in replication
  - 6 Joining** DNA ligase seals the gaps between Okazaki fragments creating a continuous DNA molecule
- 3 Gene Expression From DNA to Protein** Central Dogma of Molecular Biology This principle states that genetic information flows from DNA to RNA to protein
- Transcription** The process of copying DNA into RNA RNA polymerase binds to the promoter region of a gene and transcribes the DNA sequence into a complementary RNA molecule mRNA
- Translation** The process of translating the genetic code in mRNA into a sequence of amino acids forming a protein Ribosomes bind to mRNA and move along it reading the codons threebase sequences Each codon specifies a particular amino acid brought to the ribosome by tRNA molecules The amino acids are linked together by peptide bonds forming a polypeptide chain
- 4 Genetic Code The Language of Life** Codons Threebase sequences in mRNA that specify a particular amino acid There are 64 possible codons but only 20 amino acids meaning some amino acids are coded by multiple codons **Start and Stop Codons** The start codon AUG initiates translation Stop codons UAG UAA UGA signal the termination of



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