

Name ___ Period ___ Date ___

Chapter 13 Worksheet Packet

Ch. 13.1 RNA

Lesson Objectives

Contrast RNA and DNA. Explain the process of transcription.

Lesson Summary

The Role of RNA RNA (ribonucleic acid) is a nucleic acid like DNA. It consists of a long chain of nucleotides. The RNA base sequence directs the production of proteins. Ultimately, cell proteins result in phenotypic traits. The main differences between RNA and DNA are:

The sugar in RNA is ribose instead of deoxyribose.

RNA is generally single-stranded and not double-stranded like DNA.

RNA contains uracil in place of thymine.

RNA can be thought of as a disposable copy of a segment of DNA. Most RNA molecules are involved in protein synthesis. The three main types of RNA are:

Messenger RNA (mRNA) carries copies of instructions for polypeptide synthesis from the nucleus to ribosomes in the cytoplasm.

Ribosomal RNA (rRNA) forms an important part of both subunits of the ribosomes, the cell structures where proteins are assembled.

Transfer RNA (tRNA) carries amino acids to the ribosome and matches them to the coded mRNA message.

RNA Synthesis Most of the work of making RNA takes place during transcription.

In **transcription**, segments of DNA serve as templates to produce complementary RNA molecules.

In prokaryotes, RNA synthesis and protein synthesis takes place in the cytoplasm. In eukaryotes,

RNA is produced in the cell's nucleus and then moves to the cytoplasm to play a role in the

production of protein. The following focuses on transcription in eukaryotic cells.

The enzyme **RNA polymerase** binds to DNA during transcription and separates the DNA strands. It then uses one strand of DNA as a template from which to assemble nucleotides into a complementary strand of RNA.

RNA polymerase binds only to **promoters**, regions of DNA that have specific base sequences.

Promoters are signals to the DNA molecule that show RNA polymerase exactly where to begin making RNA. Similar signals cause transcription to stop when a new RNA molecule is completed.

RNA may be "edited" before it is used. Portions that are cut out and discarded are called **introns**. The remaining pieces, known as **exons**, are then spliced back together to form the final mRNA.

The Role of RNA

1. Complete the table to contrast the structures of DNA and RNA.

| | Sugar | Number of Strands | Bases |
|-----|--------|-------------------|--------|
| DNA | | | |
| RNA | ribose | single | uracil |

2. On the lines provided, identify each kind of RNA.
a. transfer RNA b. messenger RNA c. ribosomal RNA

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