

### **PROBLEM SET: DNA Replication, Transcription & Translation**

These problems can be used AS ASSESSMENT and OF ASSESSMENT of learning. There are too many concepts that must be learned before students can successfully investigate and solve these problems on their own.

1. A DNA template strand has the following base sequence:

5' TTACACGTGGACTGAGGACCTCTCCAT 3'

- a) What is the complementary strand of this template?

AATGTGCACCAGACTCCTGGAGAGGTA

- b) If the template is the sense strand, what is the mRNA it would produce?

AAUGUGCACCAGACUCCUGGAGAGGUA

- c) State 3 ways this mRNA differs from DNA.

mRNA is single stranded, DNA is double stranded.

mRNA has the sugar ribose, DNA has the sugar deoxyribose.

mRNA has the nitrogen base Uracil instead of Thymine that DNA has.

2. A mutation has occurred in the DNA template in #1, the sequence is now:

5' TTACACGTGGACTGAGGATCACTCCAT 3'

- a) This mutated template is still the sense strand, what is the mRNA it would produce?

UUACACGUGGACUGAGGAUACACUCCAU

- b) What is the polypeptide sequence that the DNA in #1 would produce?

TTA-CAC-GTG-GAC-TGA-GGA-TCA-CTC-CAT

Leu-His-Val-Asp-Stop-Gly-Ser-Leu-His

- c) What is the polypeptide sequence that this mutated DNA would produce?

UUA-CAC-GUG-GAC-UGA-GGA-UCA-CUC-CAU

Leu-His-Val-Asp-Stop-Gly-Ser-Leu-His

- d) What do you think would happen as a result of this mutation?

Sickle-cell disease and Cancer are both results of mutations.

# Transcription Translation Problem Set

**Y Pai**



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