



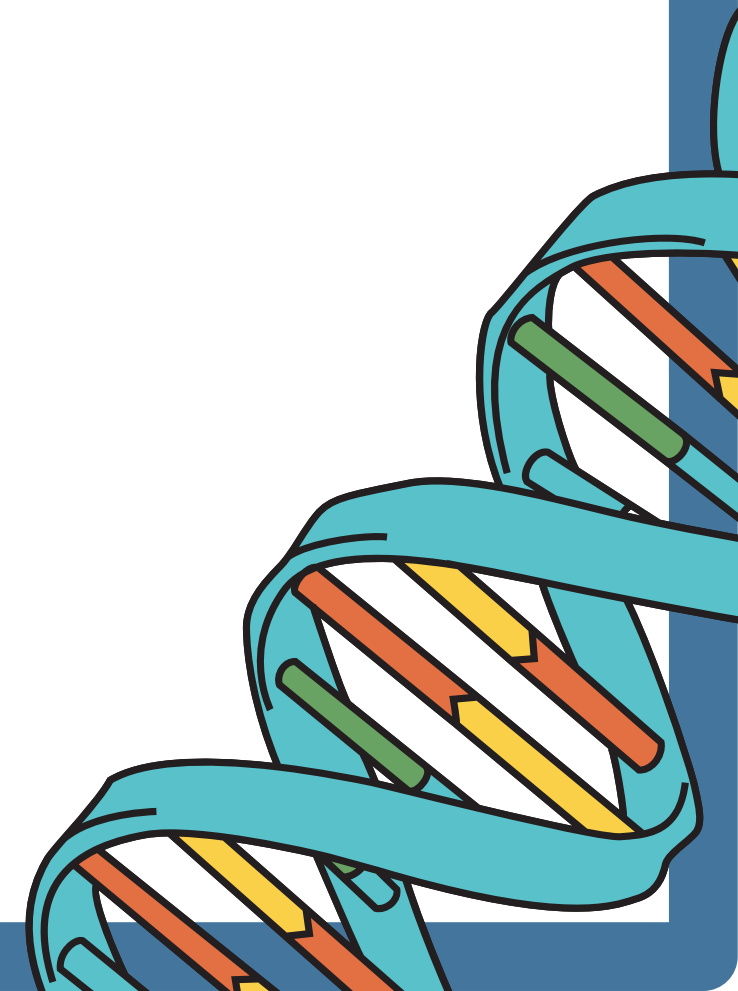
Quiz

What base is in RNA, but not in DNA?

- A) Adenine
- B) Guanine
- C) Cytosine
- D) Thymine
- E) Uracil

How many strands are RNA and DNA?

- A) Both RNA and DNA are double stranded
- B) RNA is single stranded and DNA is double stranded
- C) RNA is double stranded and DNA is single stranded
- D) Both RNA and DNA are single stranded.





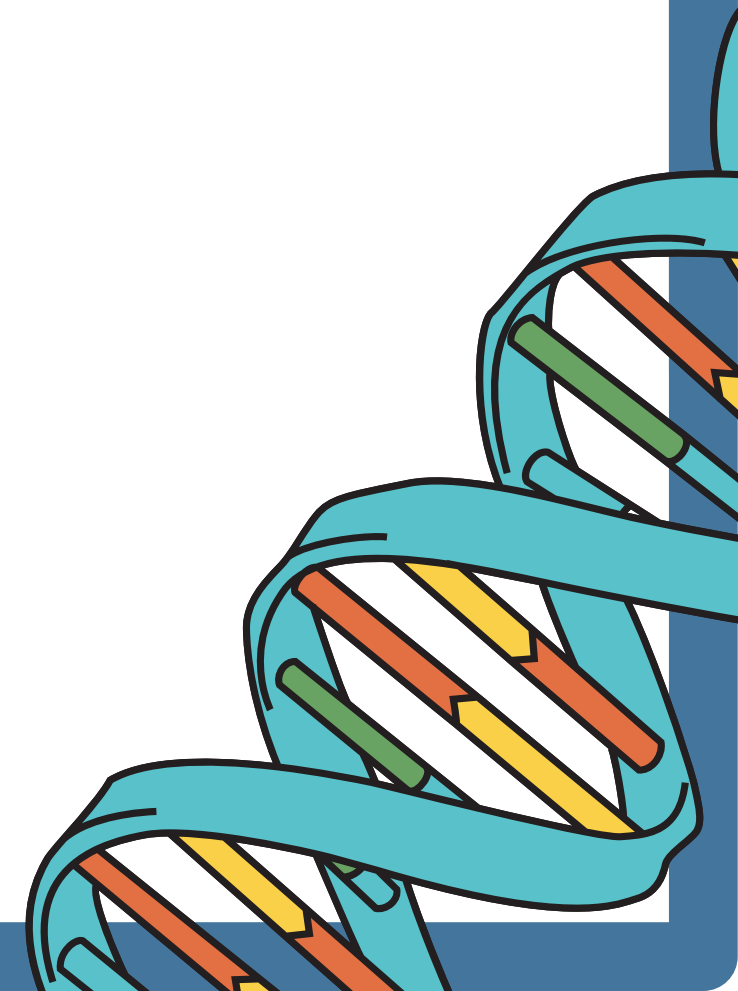
Quiz

DNA is the instructions for the cell. If it is in the nucleus, how do the instructions get into the cytoplasm and to the organelles?

- A) The DNA will go through small holes (pores) in the nuclear membrane to the cytoplasm.
- B) Messenger RNA (mRNA) is a copy of the instructions contained in DNA and it can move from the nucleus to the cytoplasm.
- C) The instructions for the cell do not have to get into the cytoplasm.
- D) All of these

By which process RNA is made from DNA?

- A) Transcription
- B) Synthesis
- C) Replication
- D) Translation





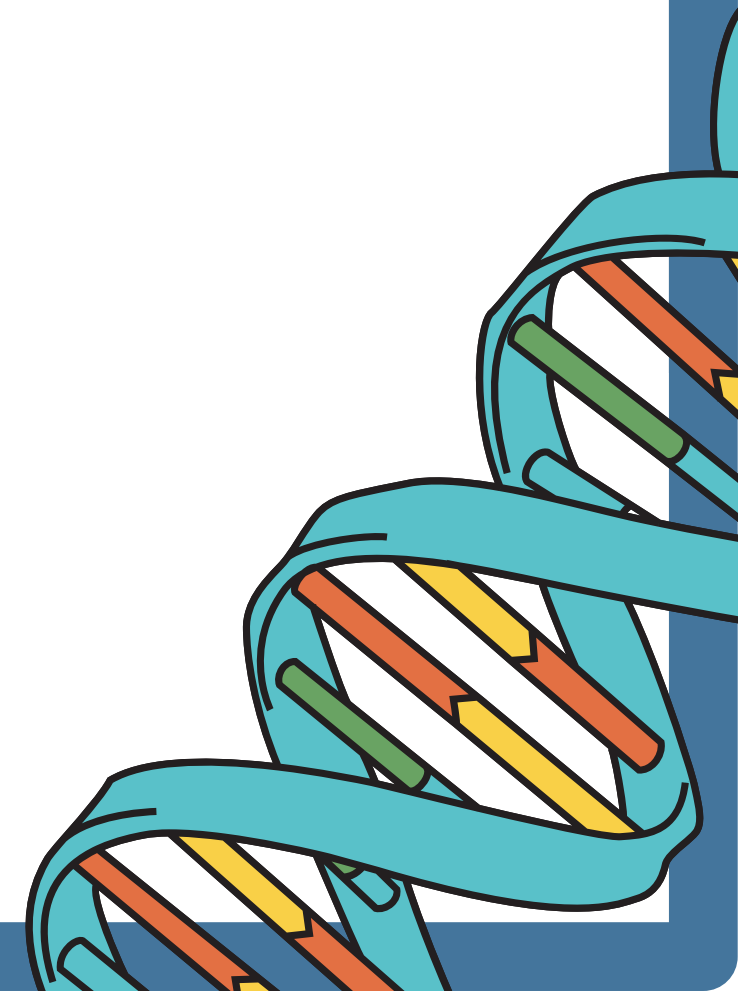
Quiz

Messenger RNA (mRNA):

- A) Plays catalytic (ribozyme) roles and structural roles in ribosome
- B) Serves as adapter molecule in protein synthesis; translates mRNA codons into amino acids.
- C) Carries information specifying amino acid sequences of proteins from DNA to ribosomes
- D) NONE

forms the basic structure of the ribosome and catalyzes protein synthesis:

- A) MRNA
- B) RRNA
- C) TRNA





Quiz

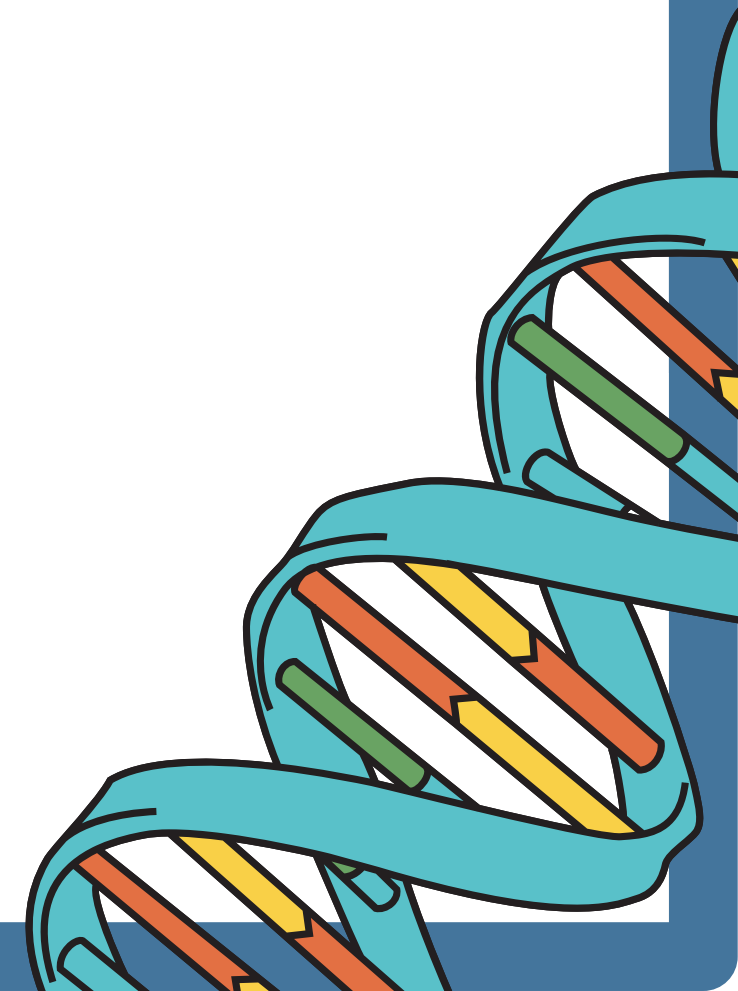
tRNA is a single-stranded ribonucleic acid that doubles back on itself to create regions where complementary bases are hydrogen-bonded to one another.

TRUE

FALSE

Which of the following statements is true regarding introns?

- A) Introns are the parts of mRNA that are translated.
- B) Introns have no function.
- C) In general, human genes have fewer introns than genes of other organisms.
- D) Introns may be involved in exon shuffling.





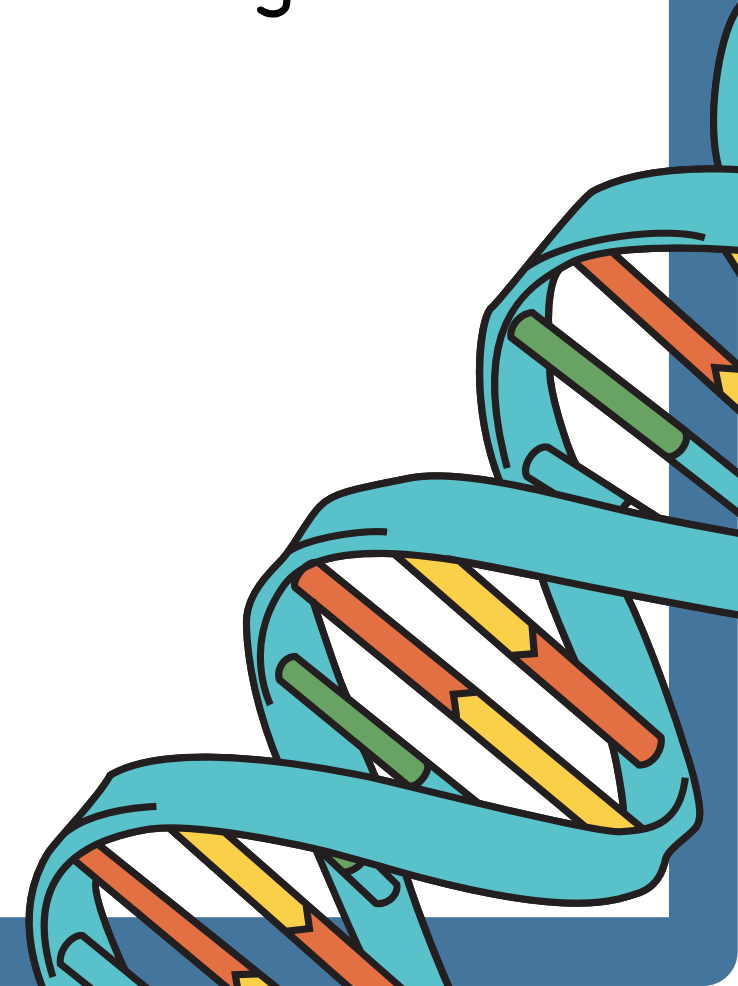
Quiz

Synthesis of a new strand of messenger RNA is in the 5' to 3' direction.

- A) True
- B) False

The template strand of DNA for one gene may be the coding strand of DNA for another gene.

- A) True
- B) False





- 1)E
- 2)B
- 3)B
- 4)A
- 5)C
- 6)B
- 7)True
- 8)D
- 9)True
- 10)True

