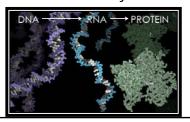
RNA & Protein Synthesis



Remember this:

- DNA is located in the nucleus (in eukaryotic cells).
- DNA structure allows for replication.
- Genes are sections of DNA that code for proteins.
- Proteins are made at the ribosomes.

• Single chain of nucleotides -Ribose (sugar) -Phosphate Group -N-base (A C G & Uracil) • 3 types of RNA

Ribosomal RNA (rRNA)

- rRNA is the catalytic part of a ribosome
- The ribosome binds with mRNA to carry out protein synthesis
- ~80% of RNA in cytoplasm is rRNA



Messenger RNA (mRNA)

- Result of Transcription copying the instructions from DNA
- Made of Codons = 3 bases that code for 1 amino acid



Transfer RNA (tRNA)

- Small, coiled RNA chain
- Carries a specific amino acid
- Anticodon = recognizes codon on mRNA



