

# Dna vs. rna and protein synthesis



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I am single stranded RNA I am arranged as a double helix DNA I include the bases Guanine, Cytosine, and Adenine DNA and RNA I have the base Thymine DNA I am found only in the nucleus of eukaryote cells DNA I am a nucleic acid DNA and RNA I have the sugar ribose RNA I have the sugar deoxyribose DNA In eukaryote cells, I travel out of the nucleus to a ribosome RNA I have the base Uracil RNA What types of RNA are there? messenger RNA (mRNA), transfer RNA (tRNA), and ribosomal RNA (rRNA) Where does transcription take place? the nucleus Is DNA directly involved in Transcription? yes Which types of RNA are involved in Transcription? mRNA only What is the end result and purpose of Transcription? to make an mRNA molecule Where does translation take place? at the ribosome Is DNA directly involved in Translation? no, DNA remains in the nucleus and this process doesn't occur in the nucleus Which types of RNA are involved in Translation? mRNA and tRNA What is the end result and purpose of translation? to make a chain of amino acids which makes a large protein

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