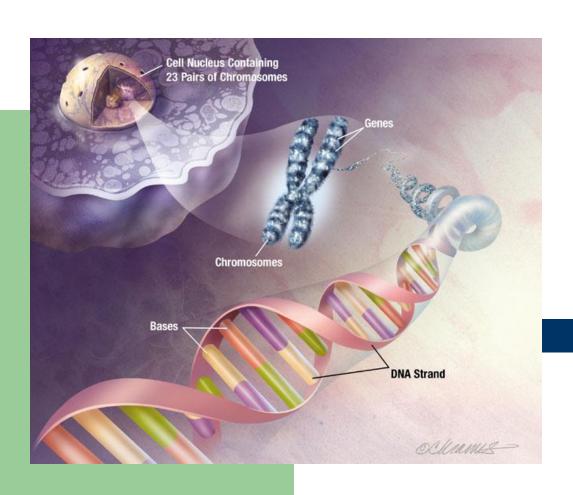
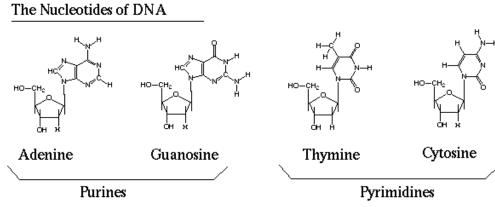
# **DNA Structure and Transcription**



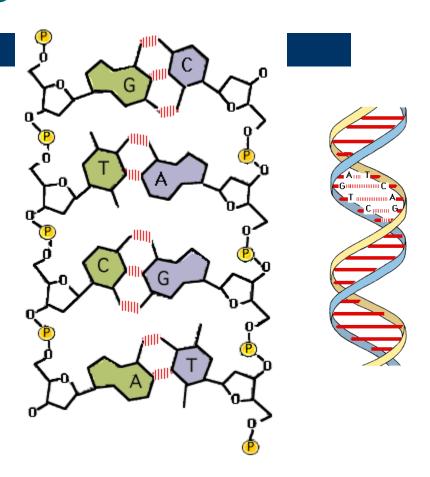
#### **DNA Bases**

- Only four bases in DNA
- A adenosine
- C cytosine
- G guanine
- T thymine



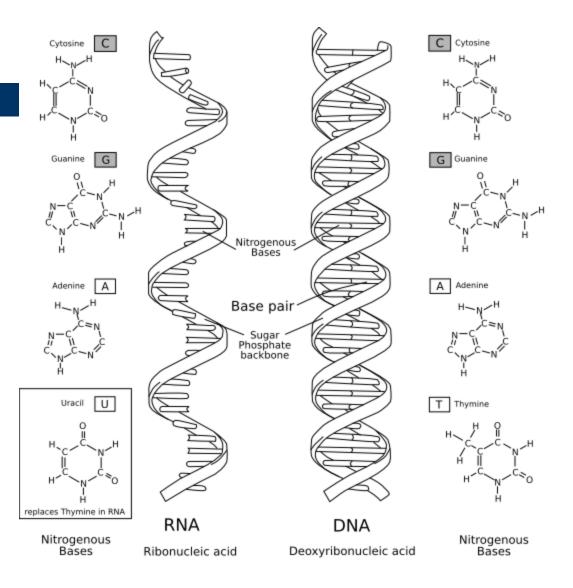
#### **DNA Base Pairs**

- DNA bonds in a double helix
- A always pairs withT
- C always pairs with G
- Pyramidine + Purine



### **RNA Bases**

- Four bases one different from DNA
- U Uracil



## **DNA Transcription**

- DNA gets copied to mRNA
- DNA A pairs with RNA U
- DNA C pairs with RNA G
- DNA G pairs with RNA C
- DNA T pairs with RNA A
- mRNA strand is complementary to transcribed DNA strand; identical to the sister DNA strand
- Work done by an enzyme RNA polymerase
- transcription describes the process through which a strand of DNA is copied into its associated mRNA strand
- complementary refers to the fact that the mRNA strand is the "opposite" of the DNA strand - each RNA base is the opposite of each DNA base

