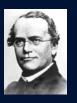




## **Discovery of DNA**

Scientists began with the understanding that the genetic material must be able to store crucial information and be able to accurately replicate.

**1865 Gregor Mendel** developed laws of heredity **Father of Genetics** 



**1940s Erwin Chargaff** calculated amount of A=T and C=G

**1951 Rosalind Franklin** used X-ray diffraction to photograph DNA and determine its structure







**1952 Alfred Hershey & Martha Chase** definitively proved that DNA was the genetic component of cells, not protein

**1953 James Watson & Francis Crick** used the data gathered from previous scientists to determine the double helix structure of DNA and the hydrogen bonds between

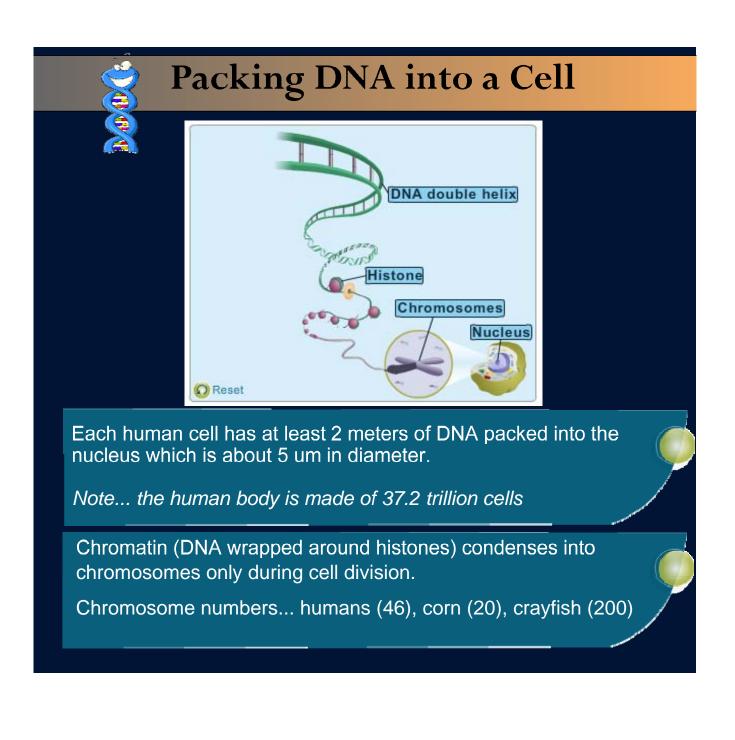
paired nucleotides

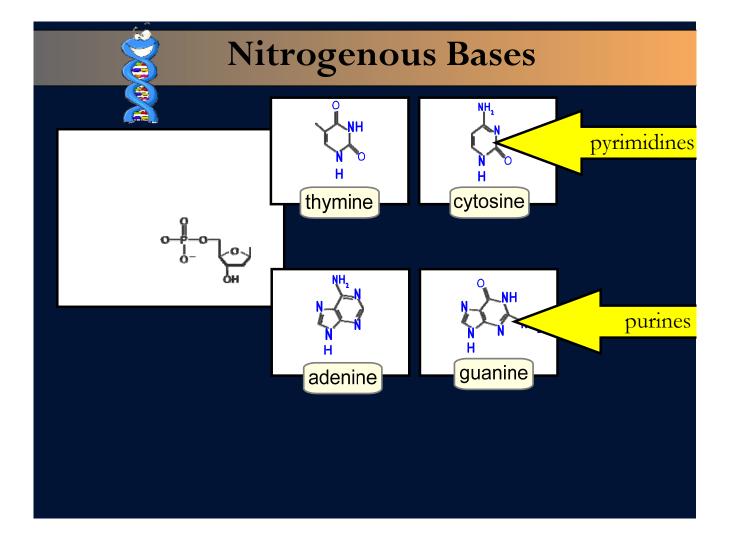
**1962** Nobel Prize for Physiology or Medicine awarded to Watson, Crick & Maurice Wilkins

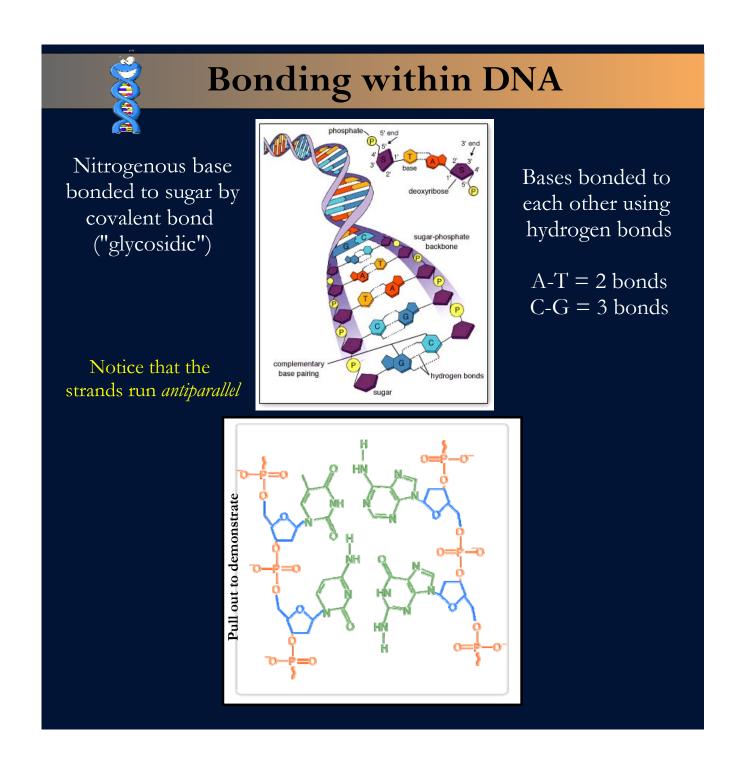




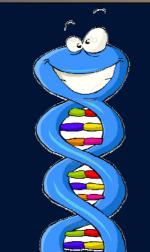
Watson (1928 -







## End of 4.1





**2011 Drew Barry** Biomedial Animator

Complete booklet Section 4.1

