

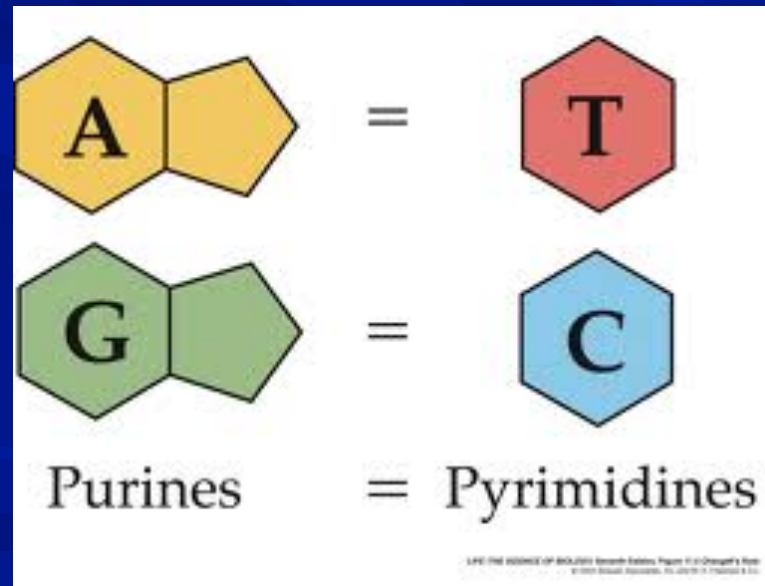
Ch. 12-1 – 12-3: DNA Structure & Replication

- Essential Questions:
 - What is the overall structure of DNA?
 - What happens during DNA replication?

■ The structure of DNA

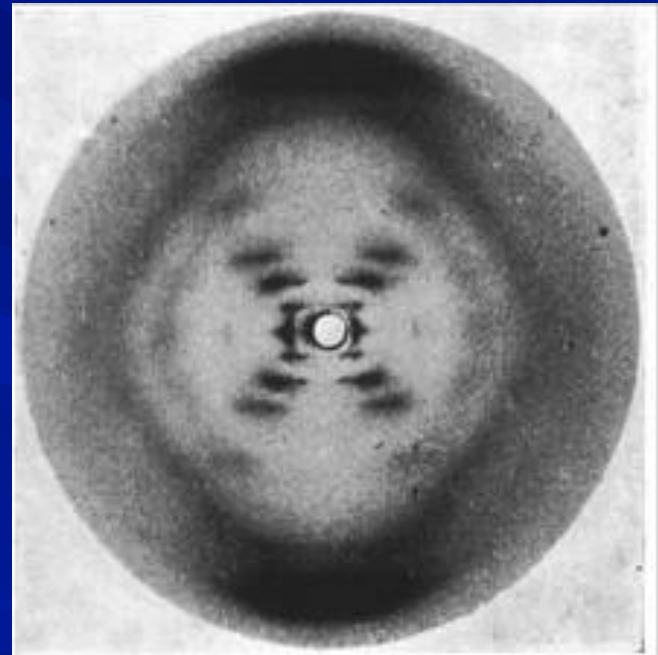
– Chargaff's rules

- Amount of Adenine = amt. of Thymine
- Amt. of Guanine = amt. of Cytosine



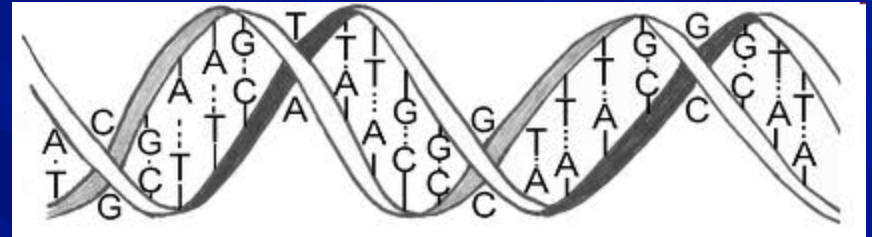
– X-Ray evidence

■ Rosalind Franklin – shows helix structure



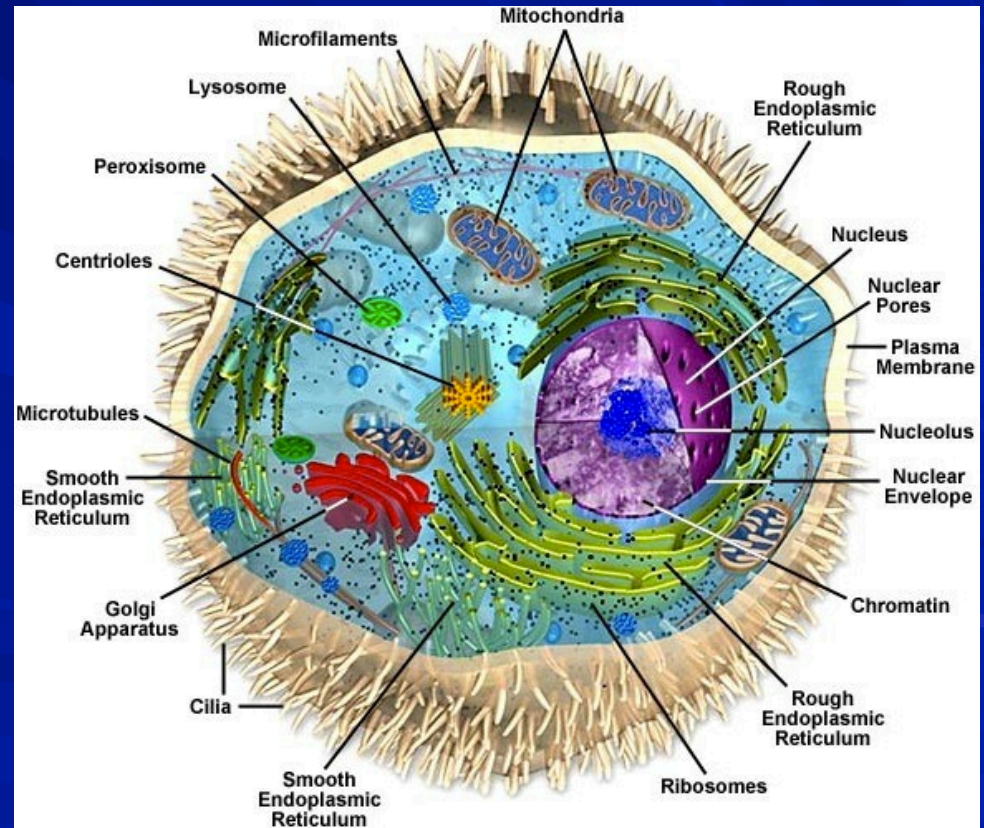
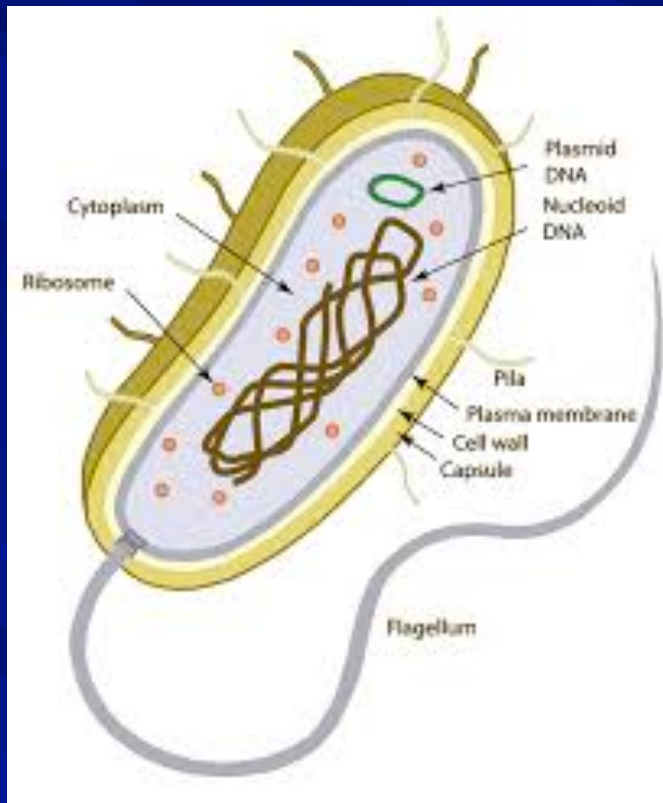
– The Double Helix

■ Watson & Crick

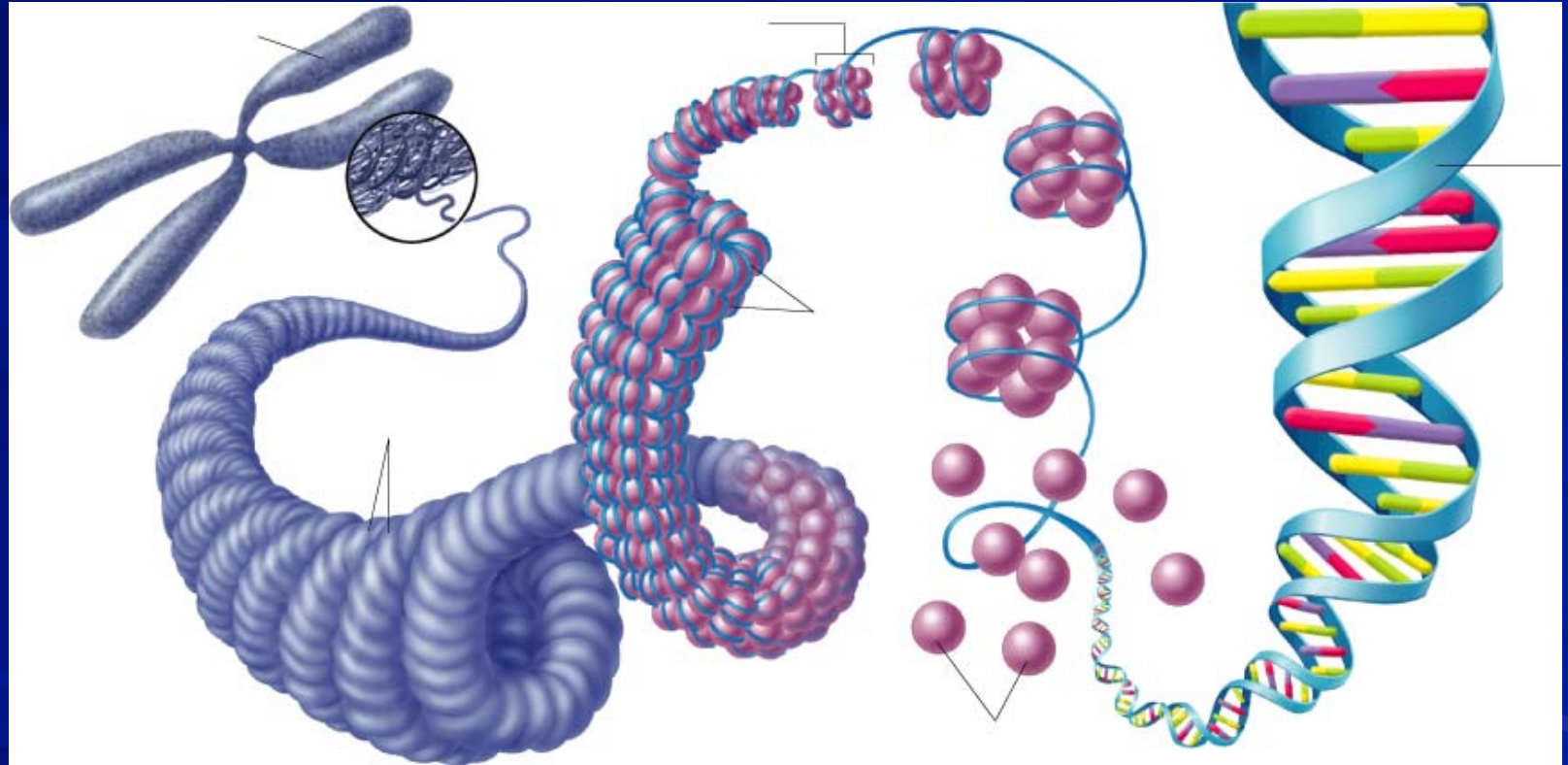


■ DNA & chromosomes

- Prokaryotes
- Eukaryotes



■ Chromosome structure



■ DNA replication

- Structure of molecule explains how DNA is copied
- Each strand can be used to copy opposite strand because of base-pair rules – “complementary”

