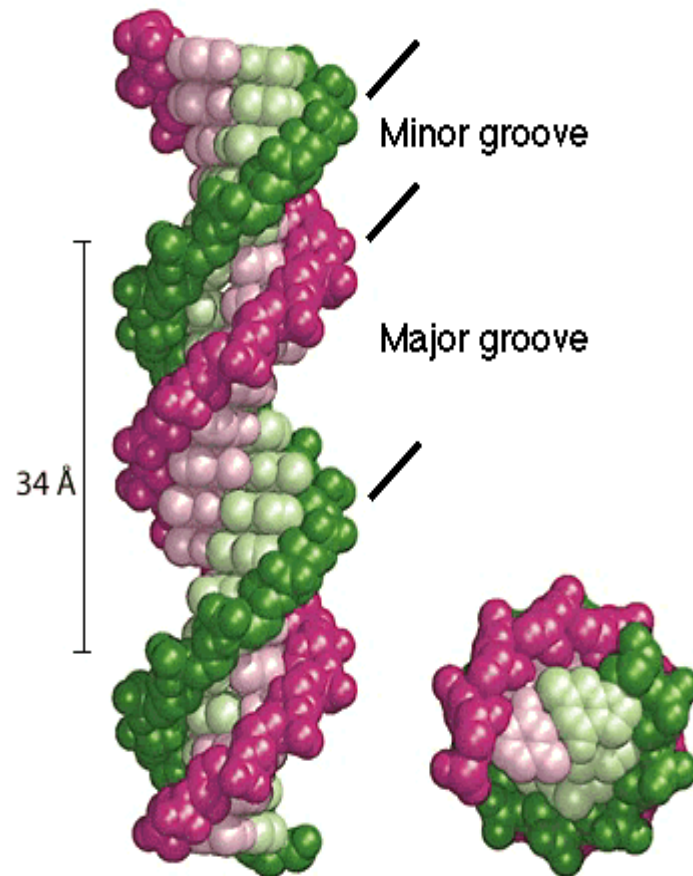
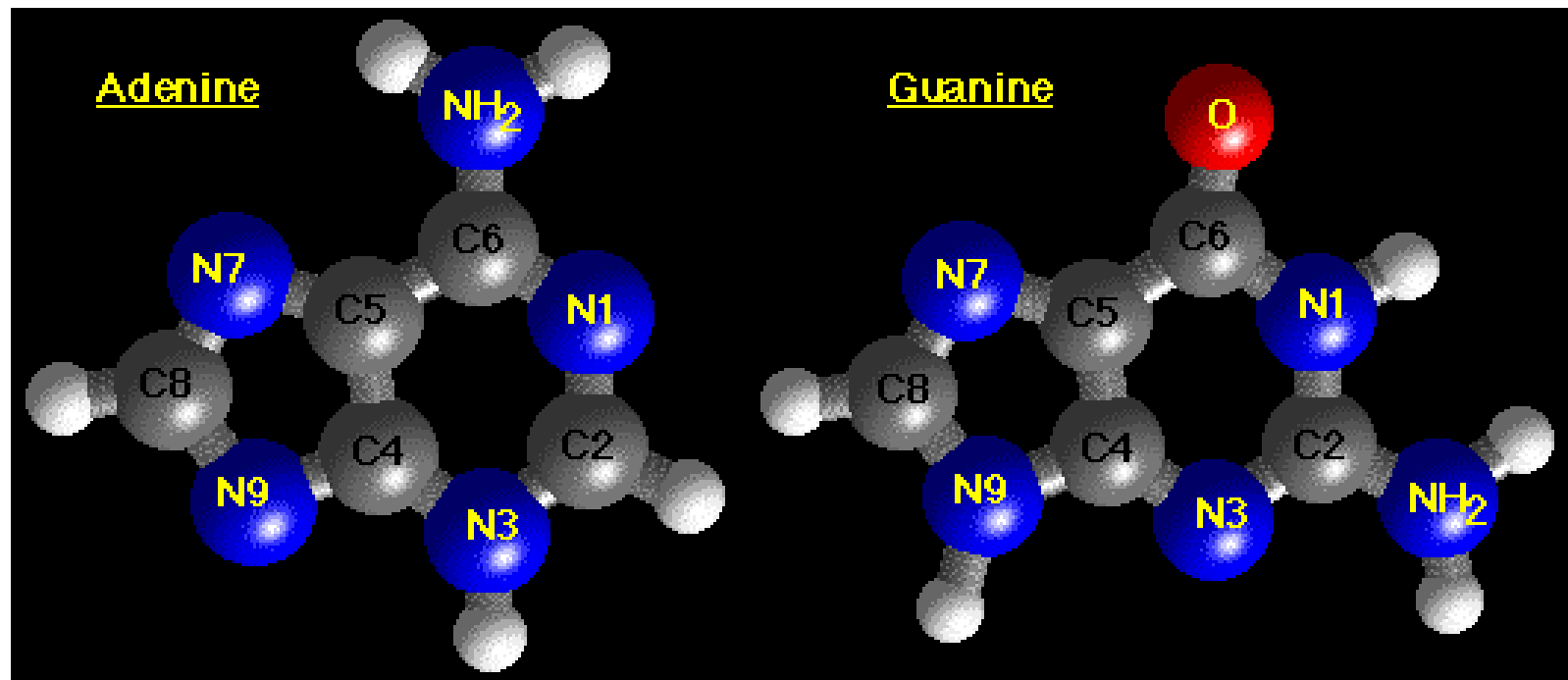


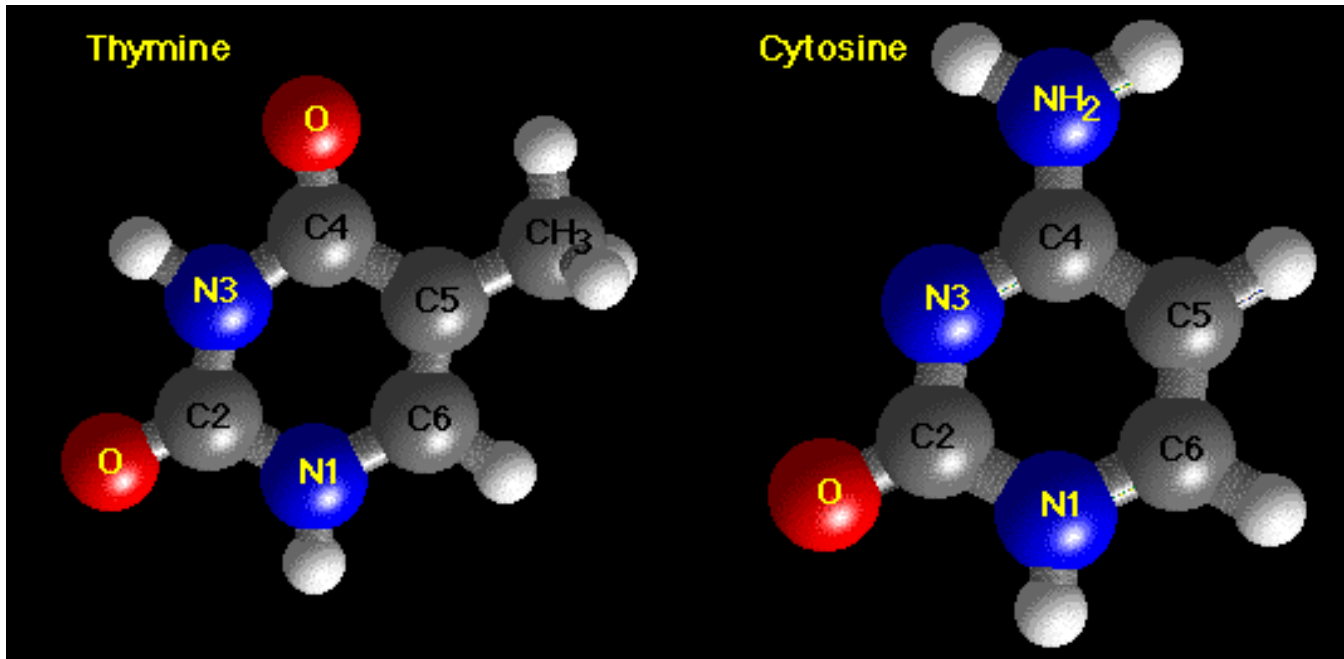
# B-form DNA



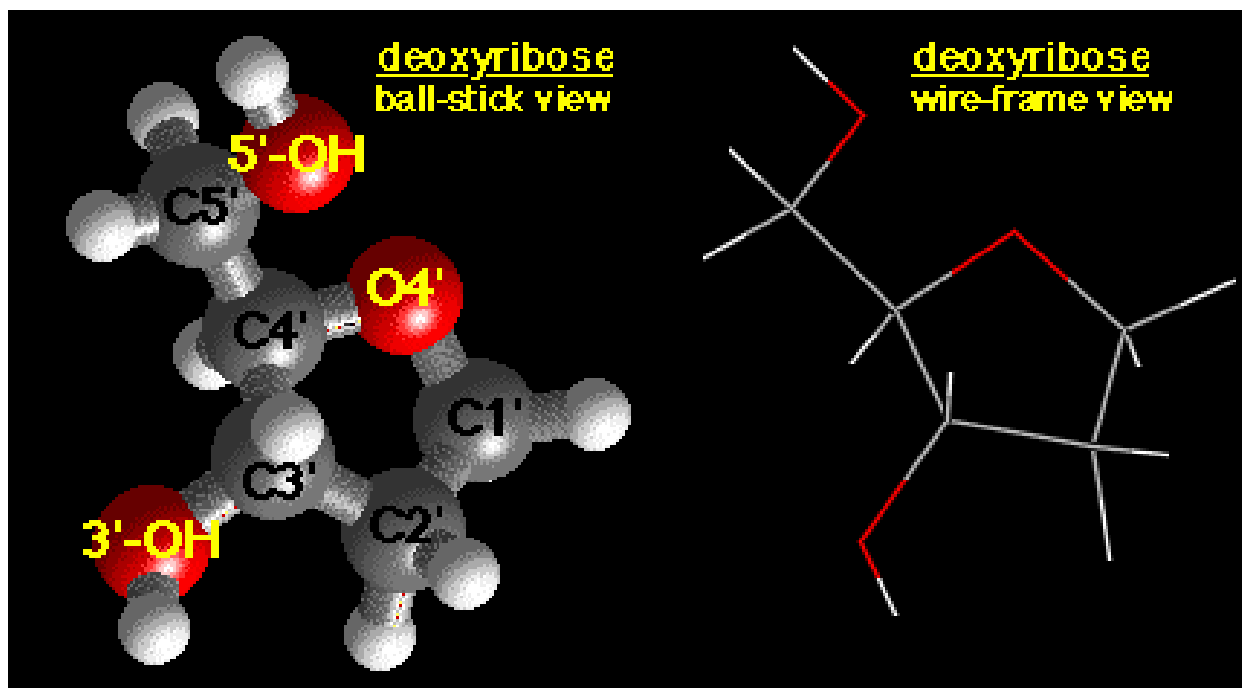
# Purine Bases



# Pyrimidine Bases

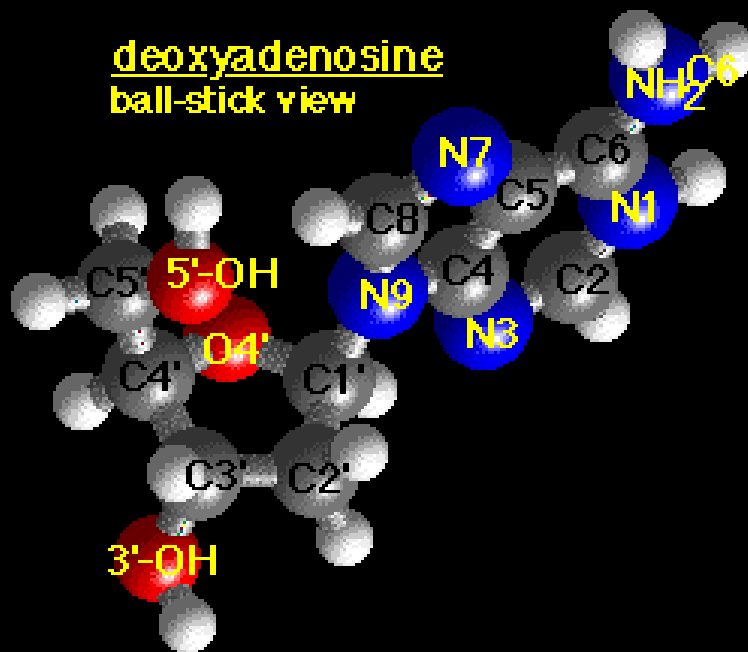


# Deoxy-ribose

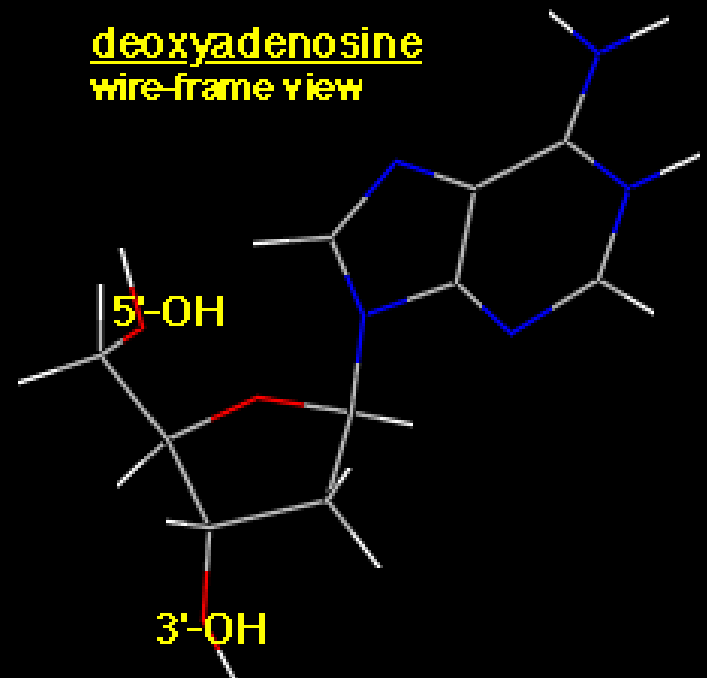


# dA nucleoside

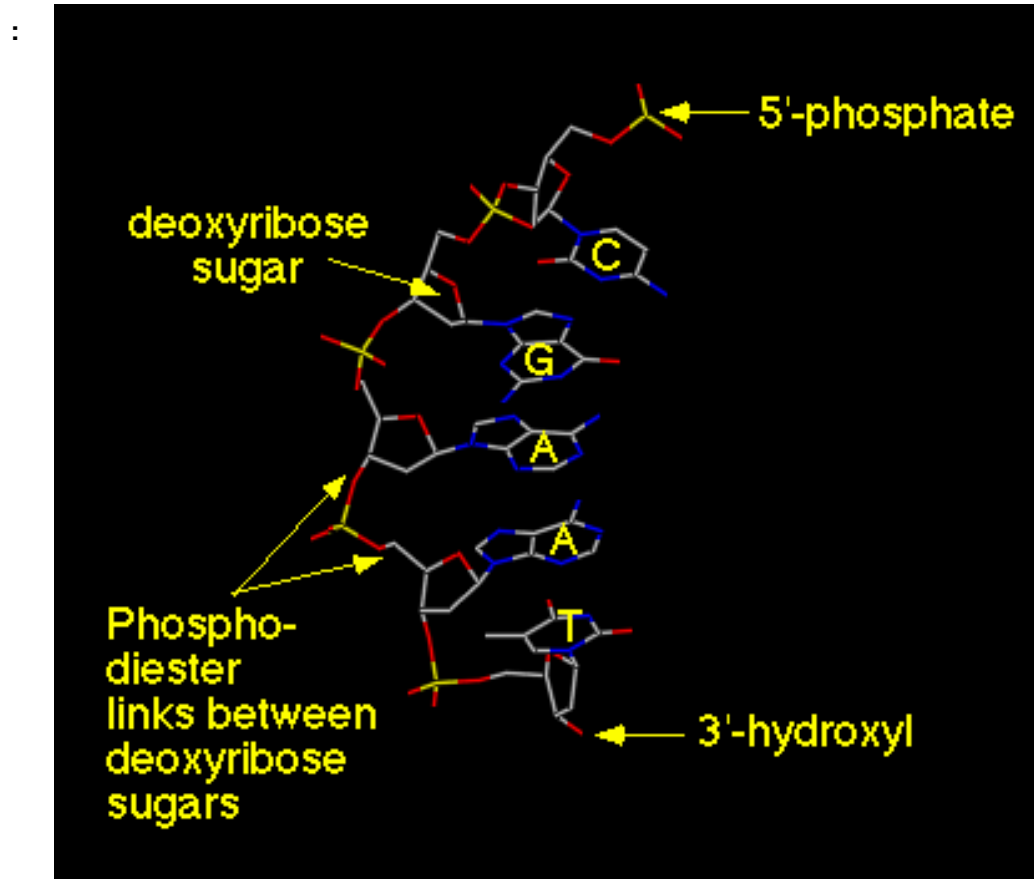
deoxyadenosine  
ball-stick view



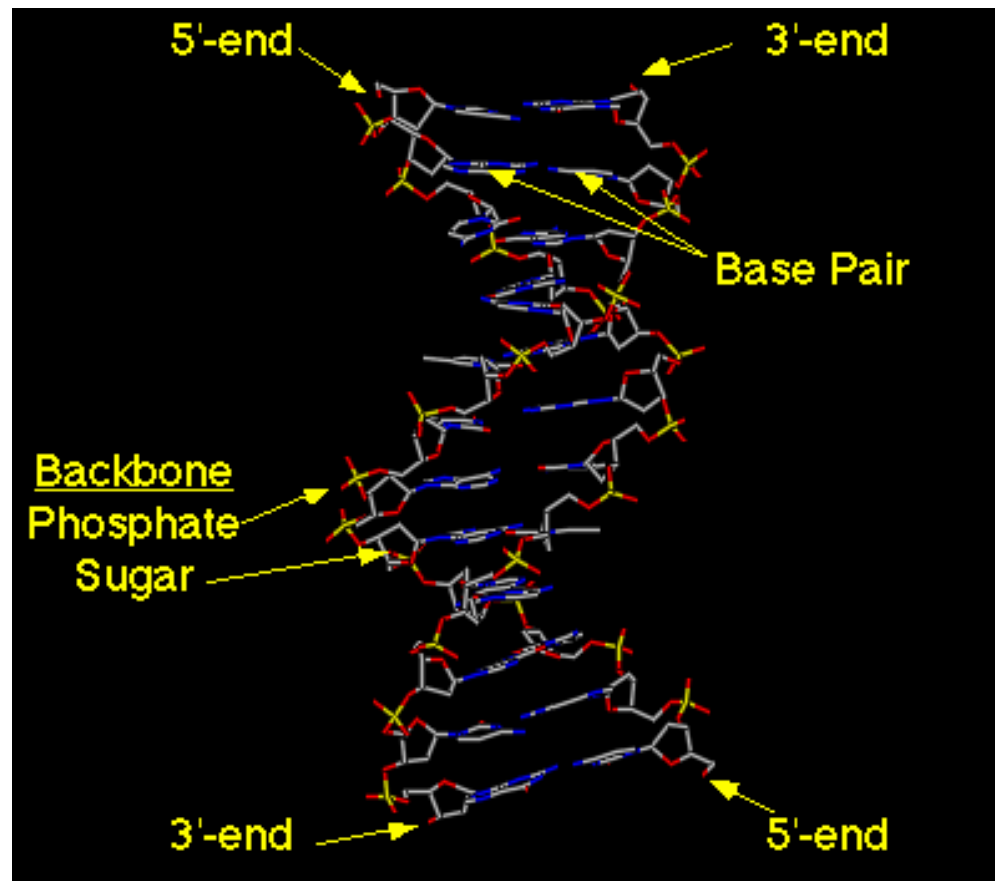
deoxyadenosine  
wire-frame view



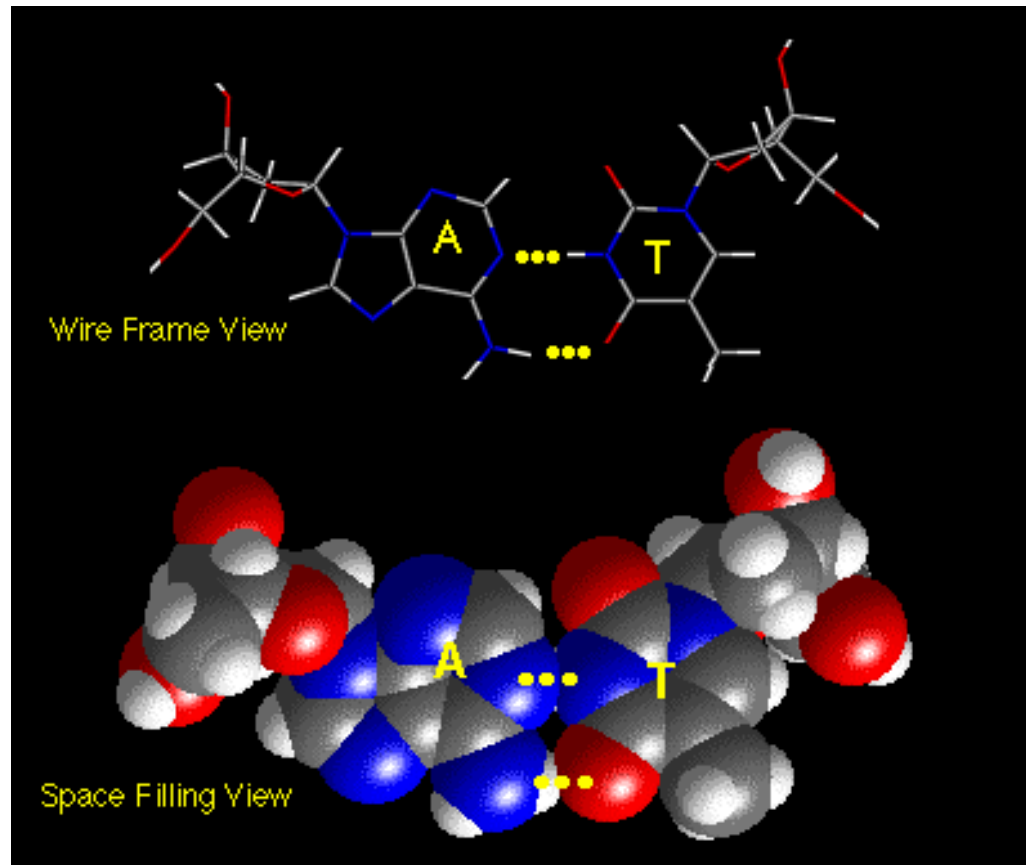
# One Backbone with Bases



# The Interwinding of Backbones

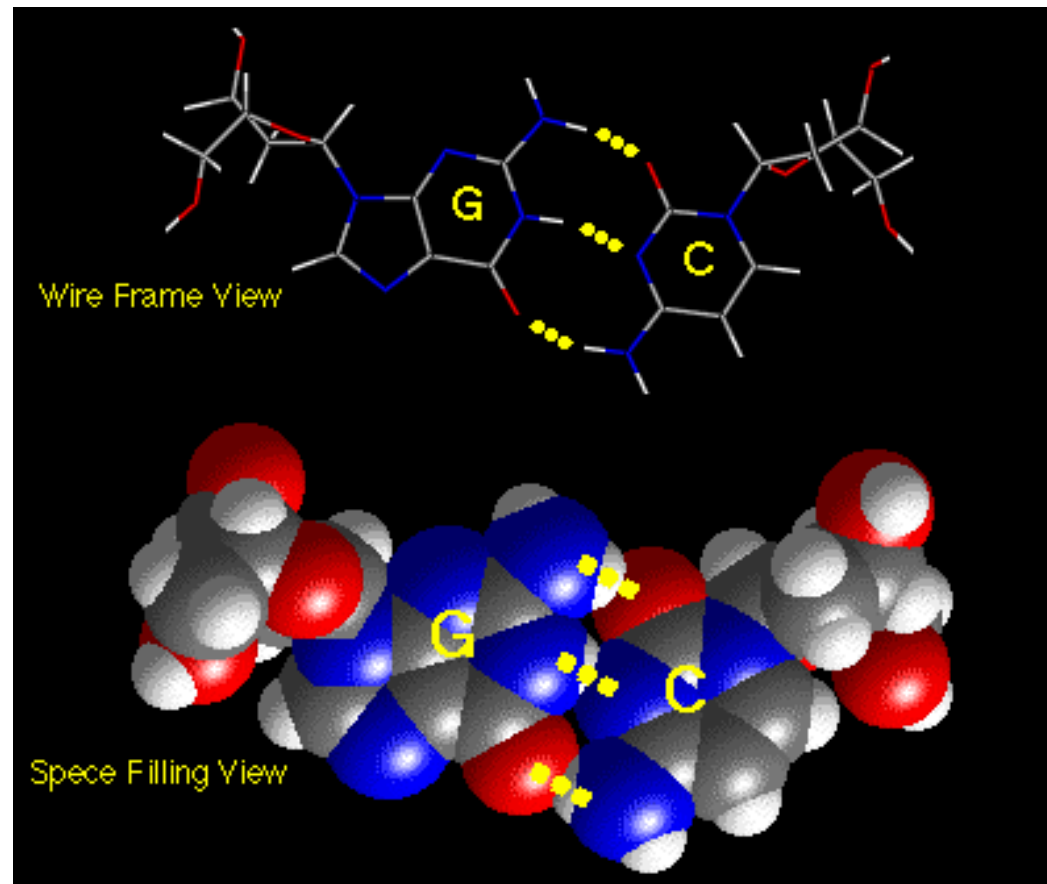


# A-T Pairing

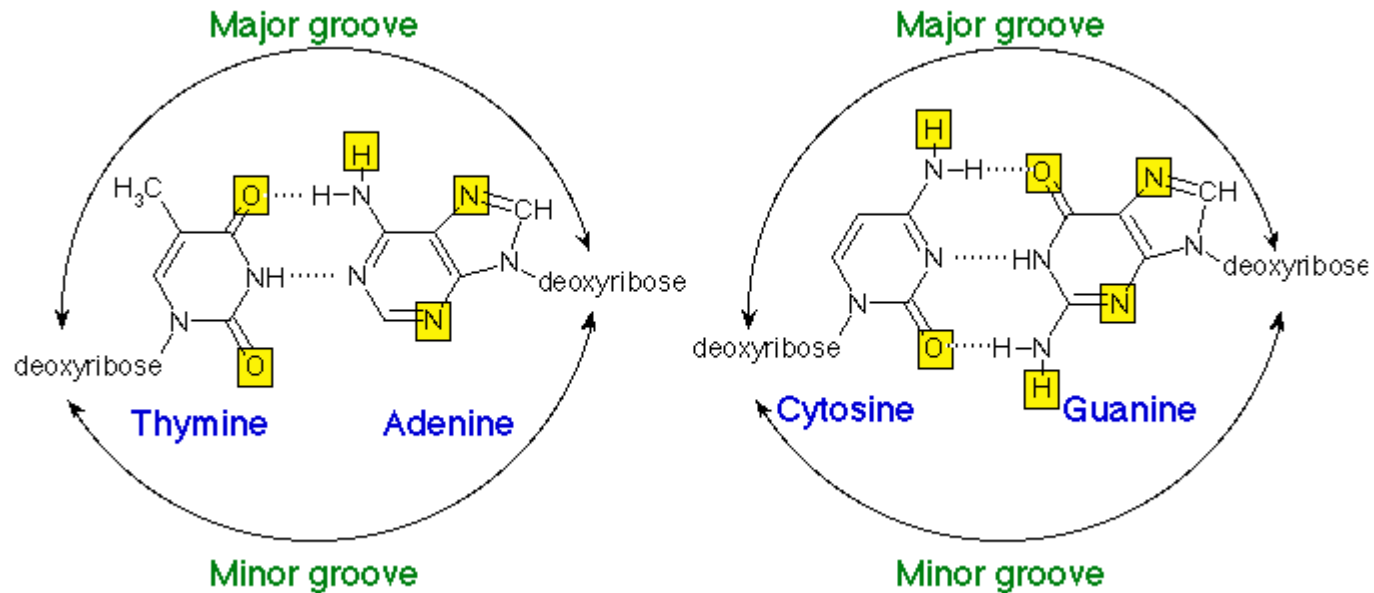




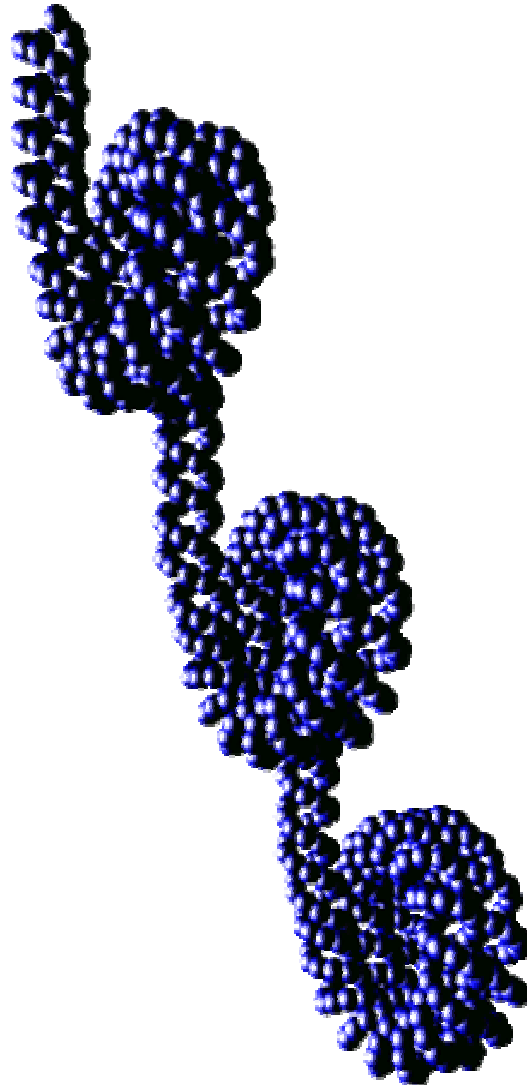
# G-C Pairing



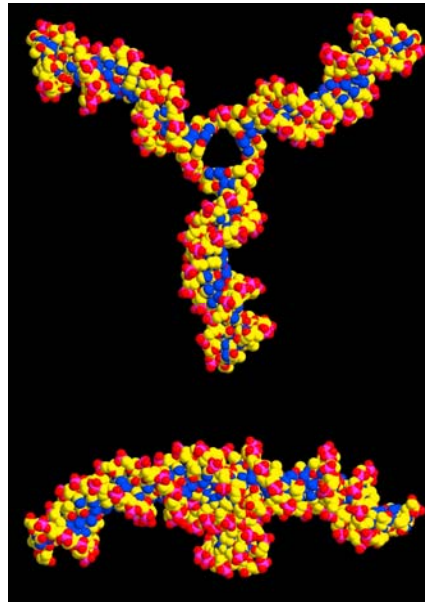
# The DNA Grooves



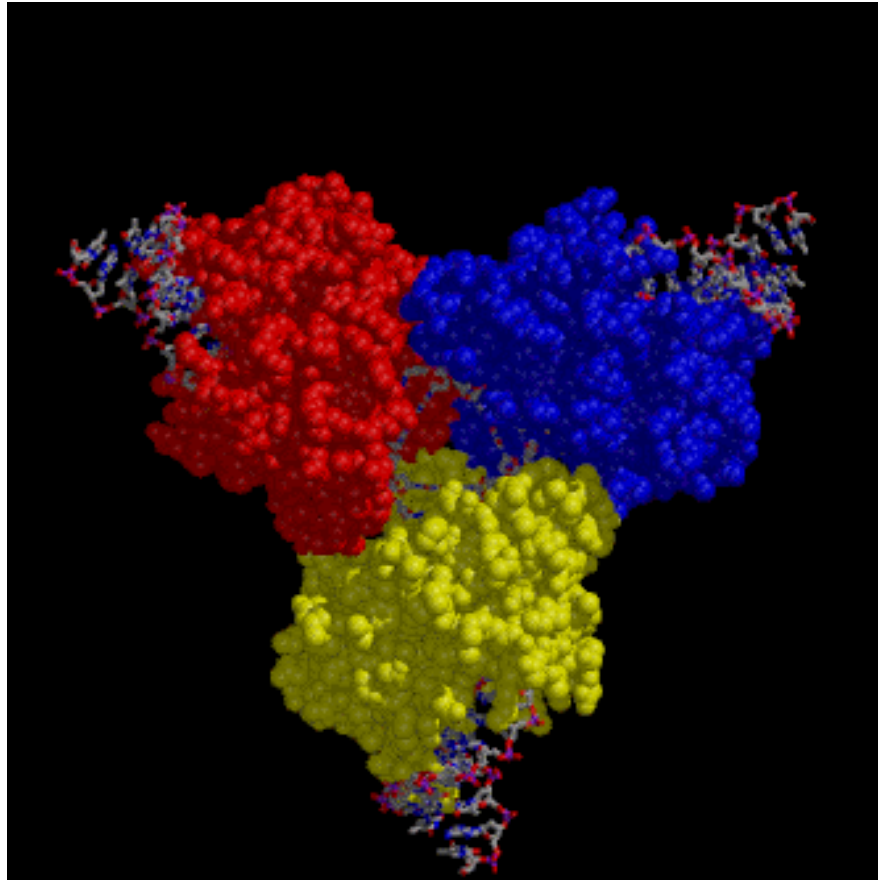
# The chromatin



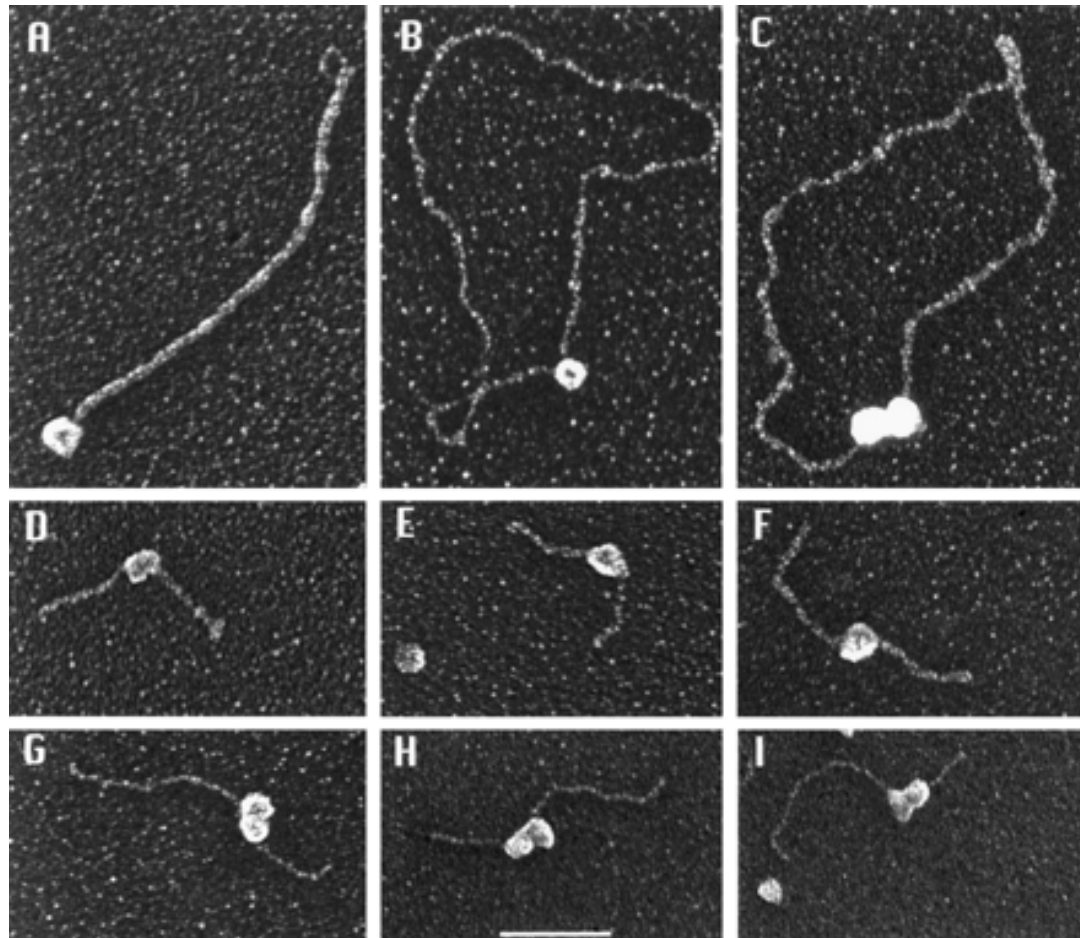
# Shapes in DNA: Bending and Branching



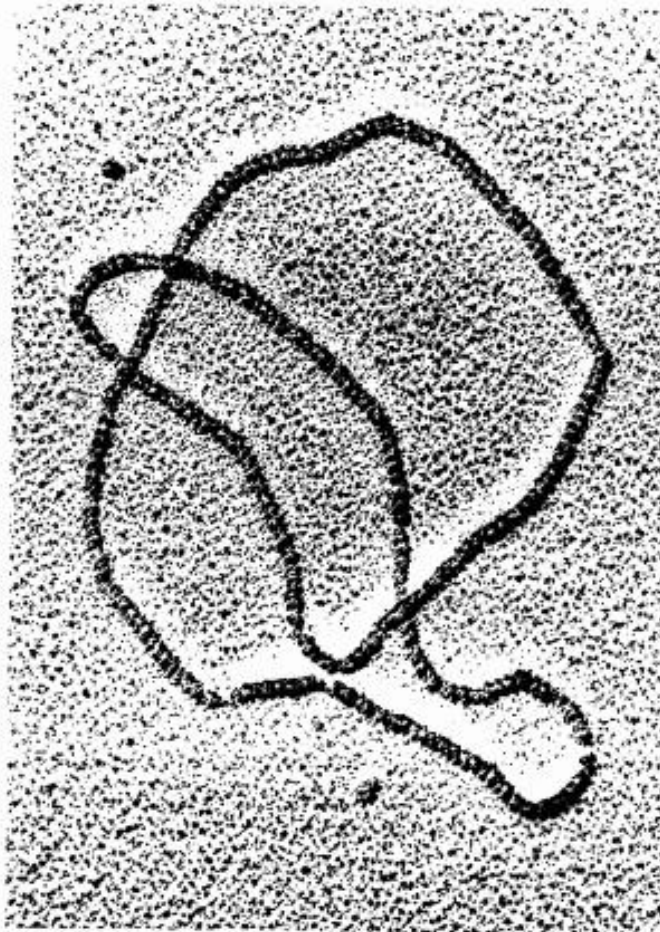
# Protein Bound to a Branched DNA



# A Replication Protein at the Origin



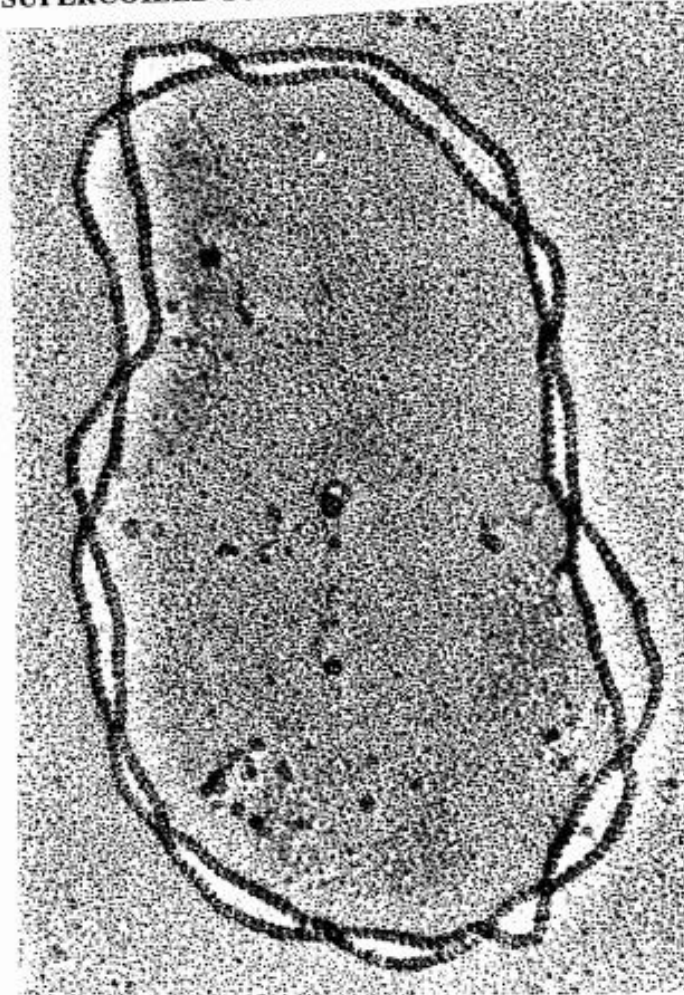
# EM of a Knotted DNA circle





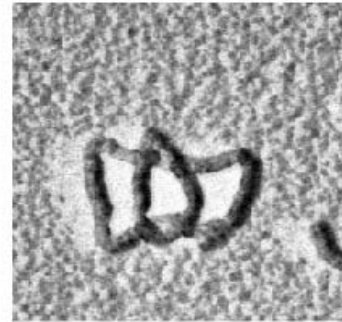
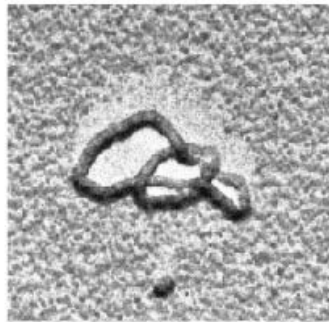
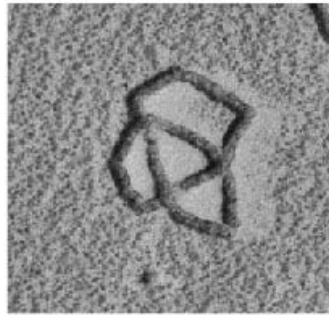
# EM of a Linked Pair of Circles

THE DNA KNOT [-13]--THE RESULT OF ONE  
ROUND OF  $\lambda$  INT RECOMBINATION ON  
SUPERCOILED SUBSTRATE

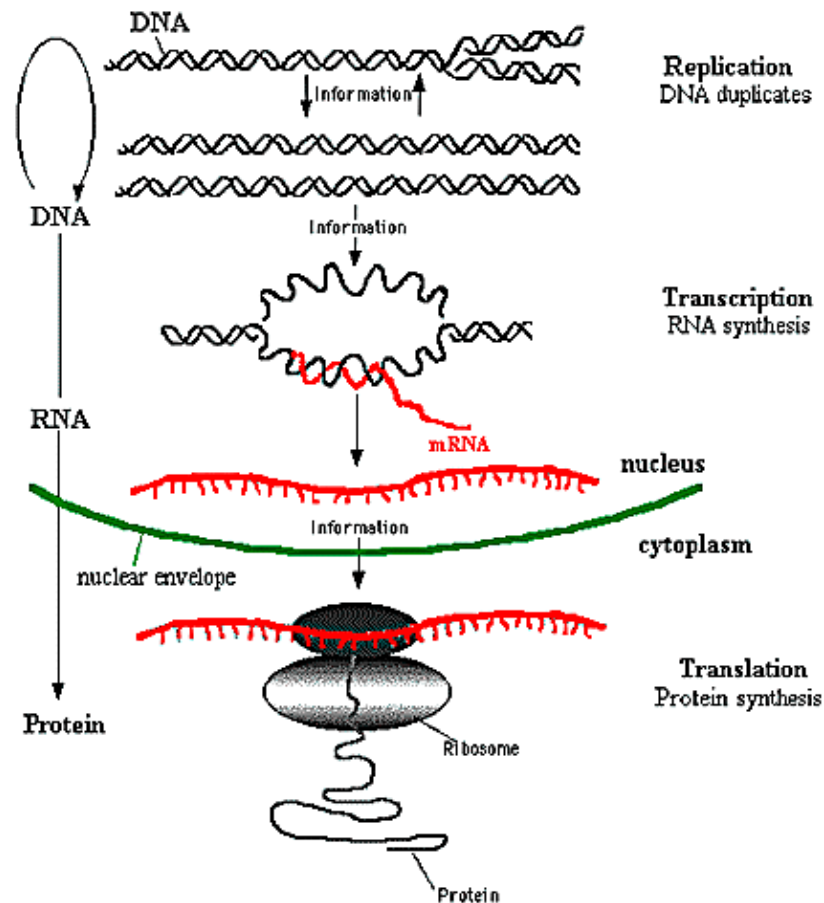




# More DNA Knots and Links

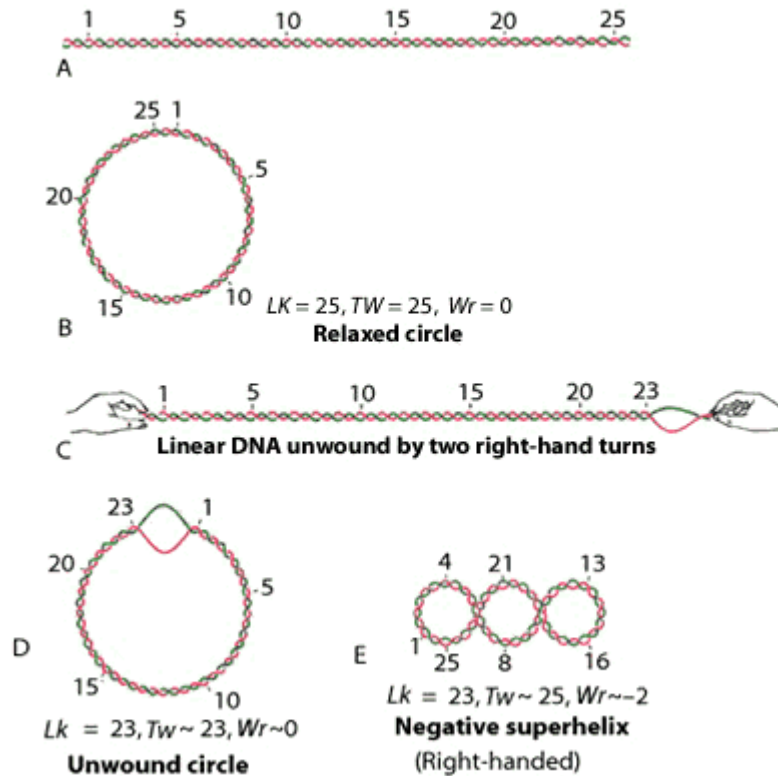


# Biological Information Flow



**The Central Dogma of Molecular Biology**

# DNA topology



# Topoisomerases

