

Important molecules in molecular biology

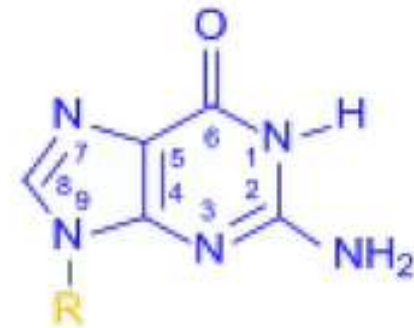


Steven Salzberg

Purines

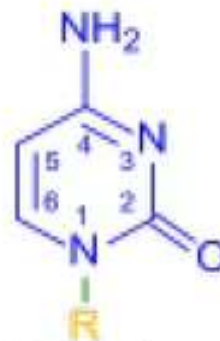


Adenine



Guanine

Pyrimidines



Cytosine



Thymine

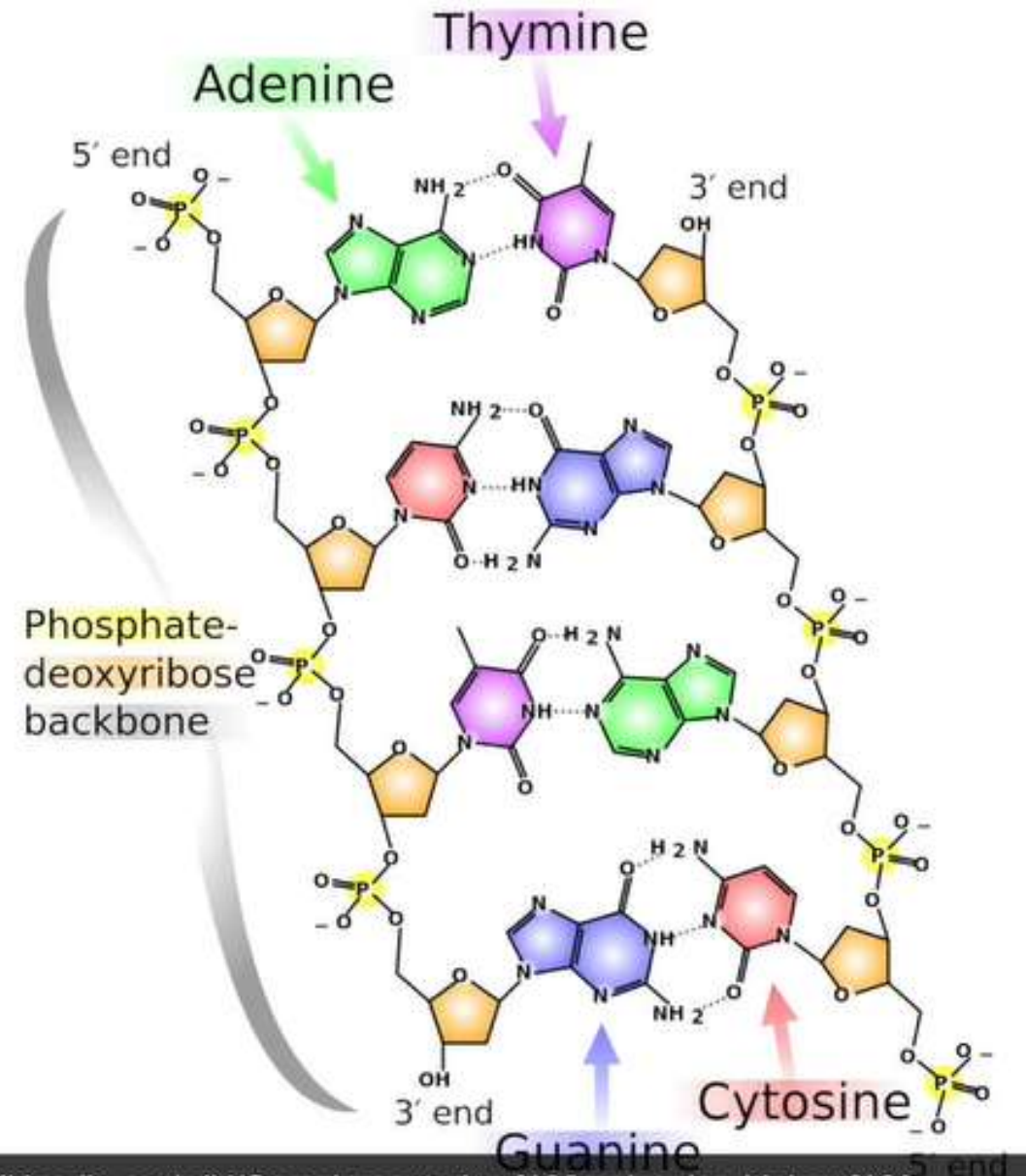
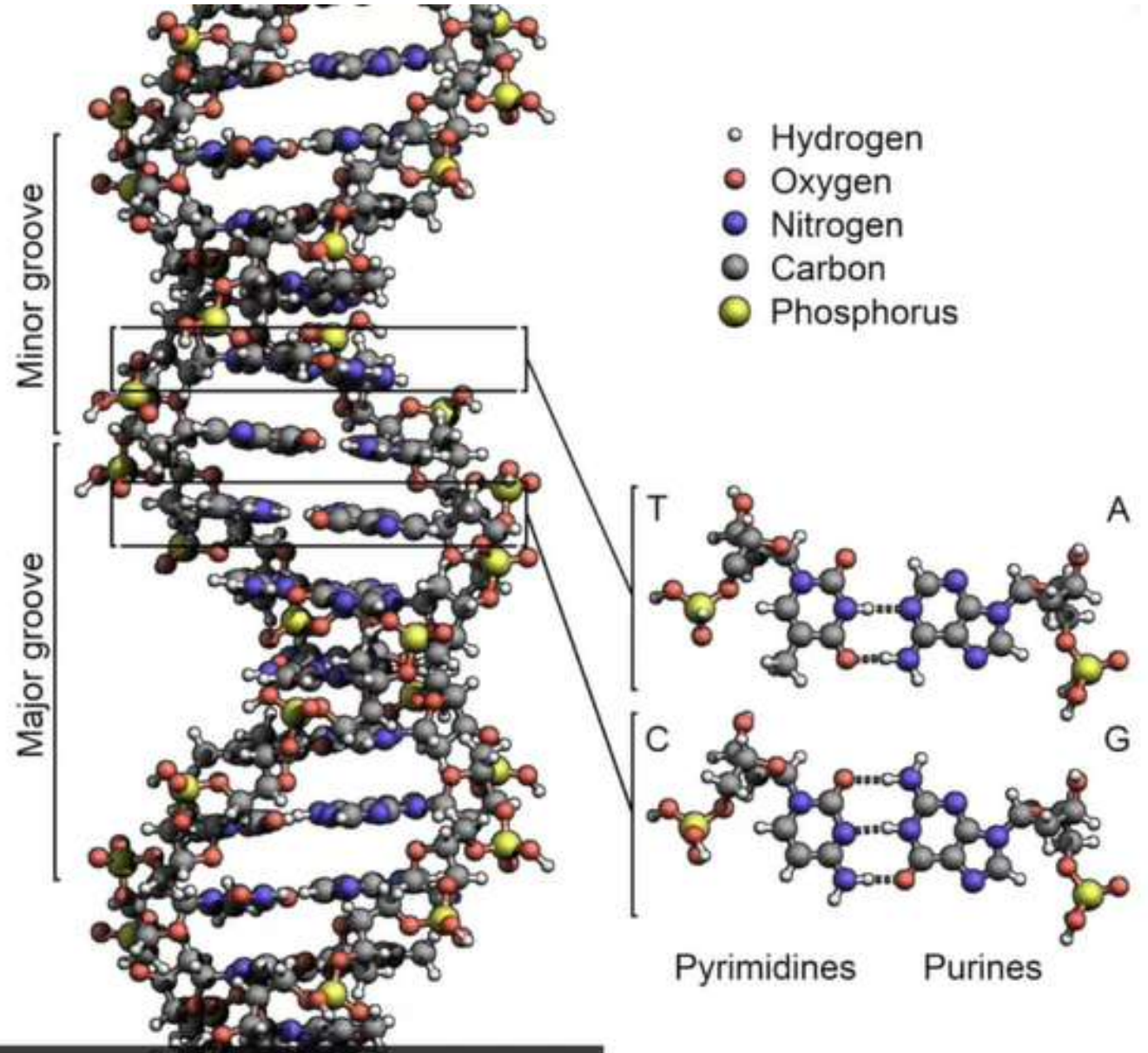


image credit: http://en.wikipedia.org/wiki/Complementarity_%28molecular_biology%29



[/en.wikipedia.org/wiki/DNA](https://en.wikipedia.org/wiki/DNA)

5' - ACACCGGTT - 3'

3' - TGTGGCCAA - 5'

5' - ACACCGGTT - 3'

3' - TGTGGCCAA - 5'

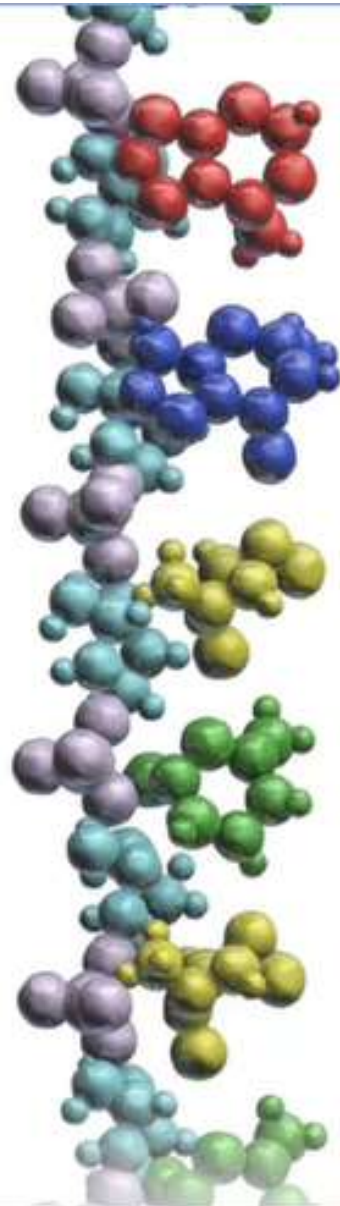
Positive strand

We write 5' to 3': "ACACCGGTT"

5' - ACACCGGTT - 3'

3' - TGTGGCCAA - 5'

Reverse compliment: "AACCGGTGT"



Adenine

Guanine

Cytosine

Uracil

Cytosine



Purines

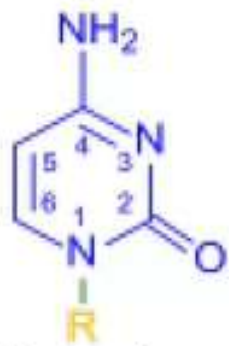


Adenine

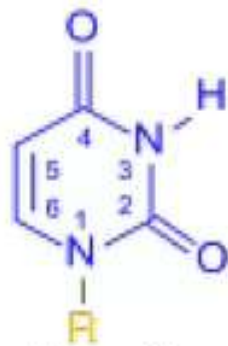


Guanine

Pyrimidines



Cytosine



Uracil



Thymine

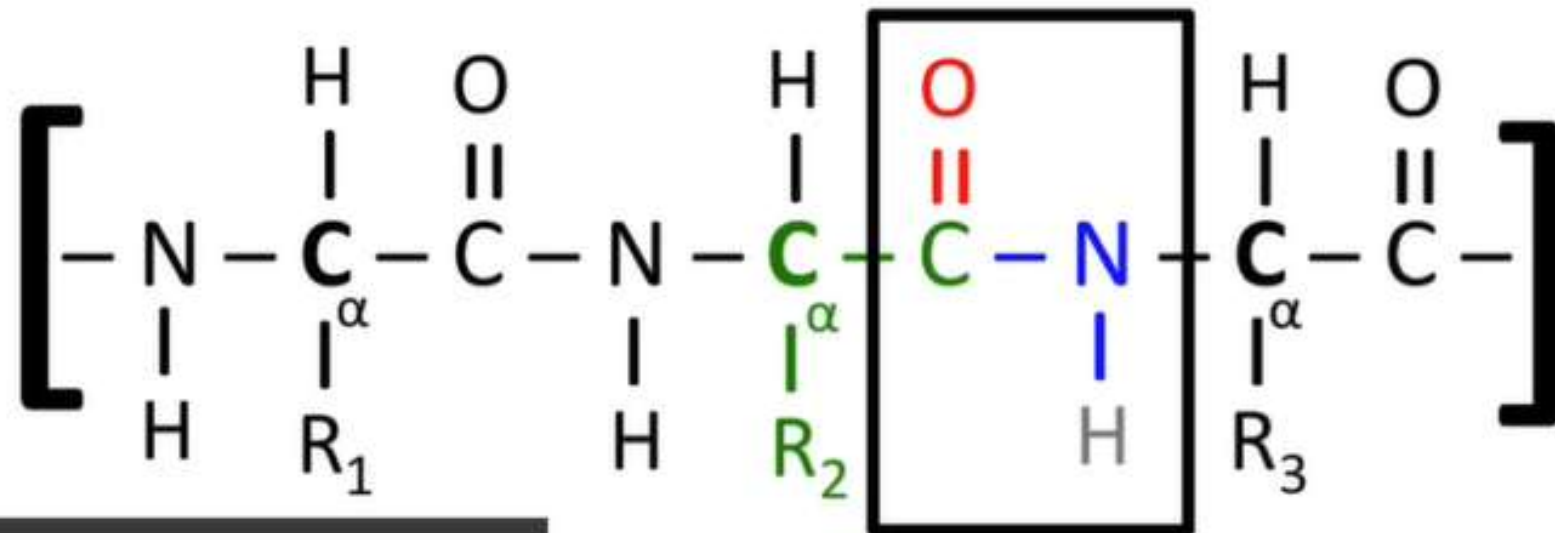
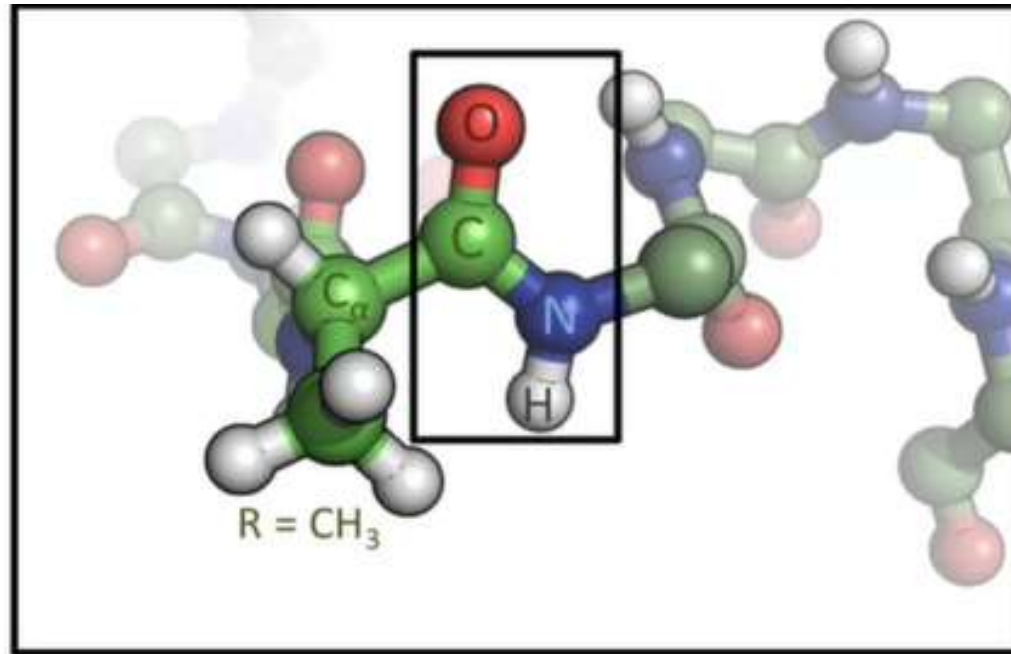


5' - ACACCGGTT 3'

3' - TGTGGCAA - 5'



ACACCGGUU



5' - ACACCGGT - 3'

3' - TGTGGCAA - 5'

ACACCGGUU

TPV

