- DNA → information → stored in DNA

↓

RNA → proteins → structural / functional

 → nucleotides

- unbranched linear polymer of nucleotides

□ : nucleotides → 

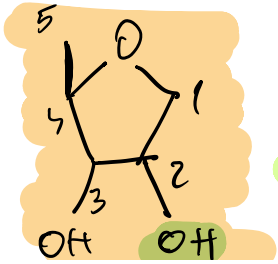
Nucleotides : • make nucleic acids

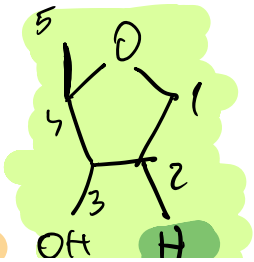
(A) Nitrogeneous bases

2 ring: A, G — Purines

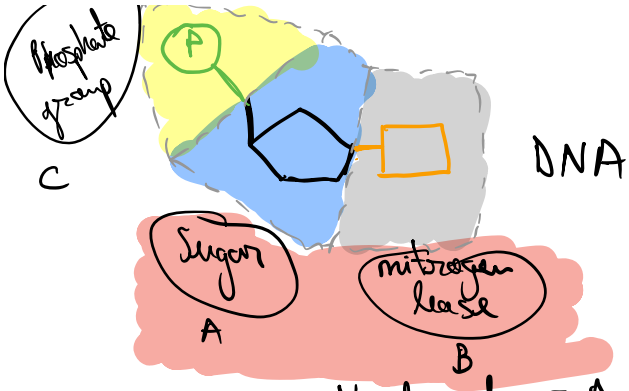
1 ring: C, T, U — Pyrimidines (DNA: C, T; RNA: C, U)

(B) Sugars: - 5 carbon molecule
- pentose





(C) Phosphate



↑ ribose ↑ deoxiribose

DNA = A + B + C

Nucleosides = A + B

Purines

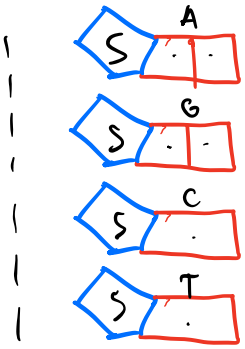
A → adenine

G → guanine

Pyrimidines

C → cytosine

T → thymine



binding with the sugar (pentose carbon molecule)

- Adenosine
- Guanosine
- Cytadine
- Thymedine

NUCEOSIDES

NUCLESIDES = A + B

A → Sugar

B → nitrogeneous bases

Nitrogeneous Bases → Purines (2-ring) → A, G

Nitrogeneous Bases → Pyrimidines (1-ring) → C, T, U

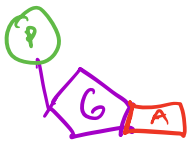
Sugars → Ribose 

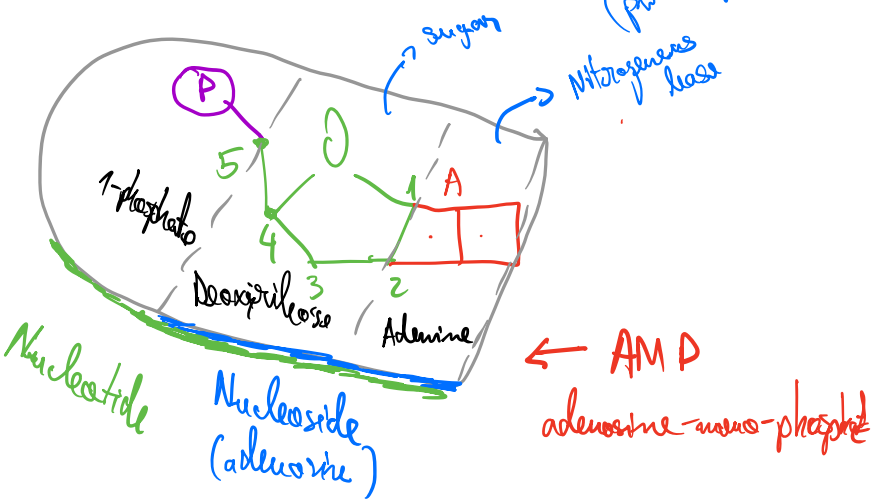
Sugars → Deoxyribose 

A + B → Nucleoside

+ 1 (P) phosphate group

NUCLEOTIDE ≡ DNA





ATP : adenosine-tri-phosphate