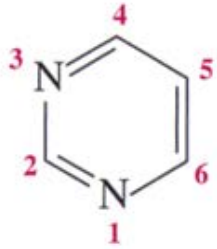


Acidi nucleici, struttura

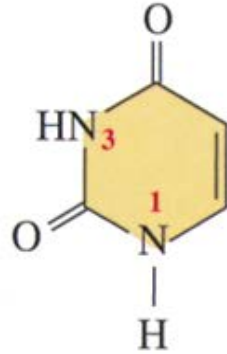
Sono dei biopolimeri formati da tre tipi di unità monomeriche:

- 1. basi azotate eterocicliche aromatiche;**
- 2. D-ribosio o da 2-deossi-D-ribosio**
- 3. fosfato**

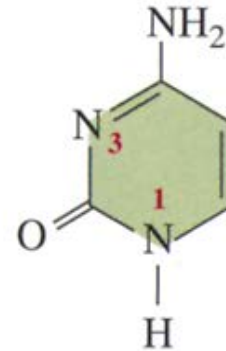
Basi azotate eterocicliche aromatiche



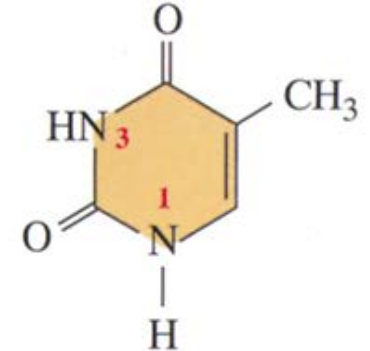
Primidina



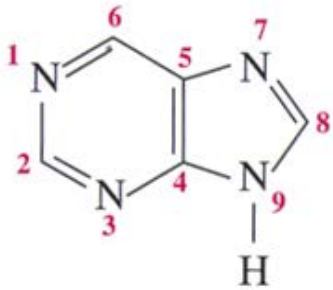
Uracile (U)



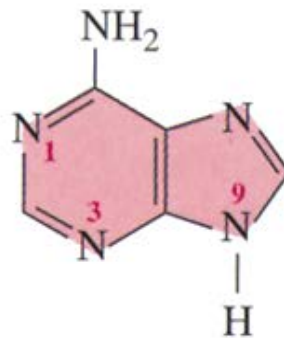
Citosina (C)



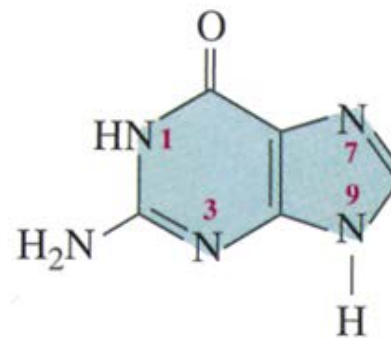
Timina (T)



Purina



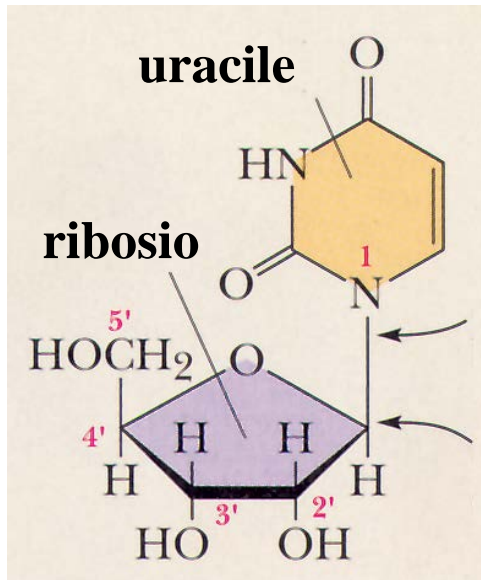
Adenina (A)



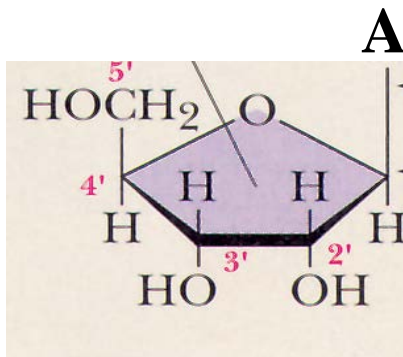
Guanina (G)

Nucleosidi

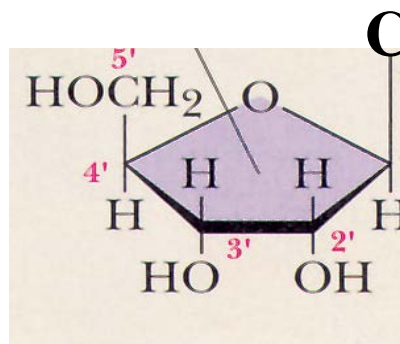
Composti contenenti una base azotata e il D-ribosio o il 2-deossi-D-ribosio



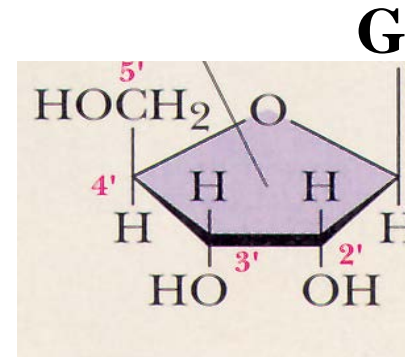
Questo nucleoside è: Uridina



Adenosina



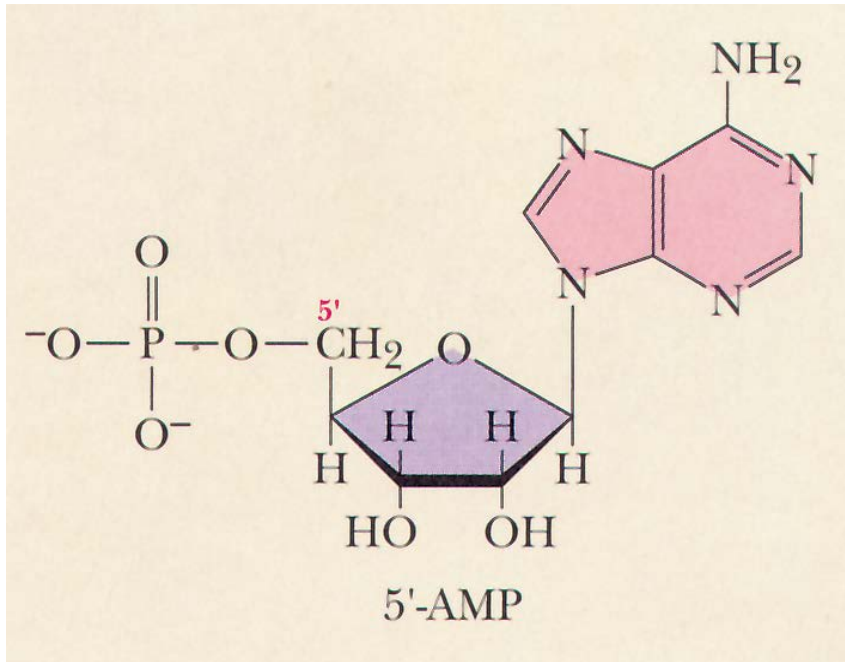
Citidina



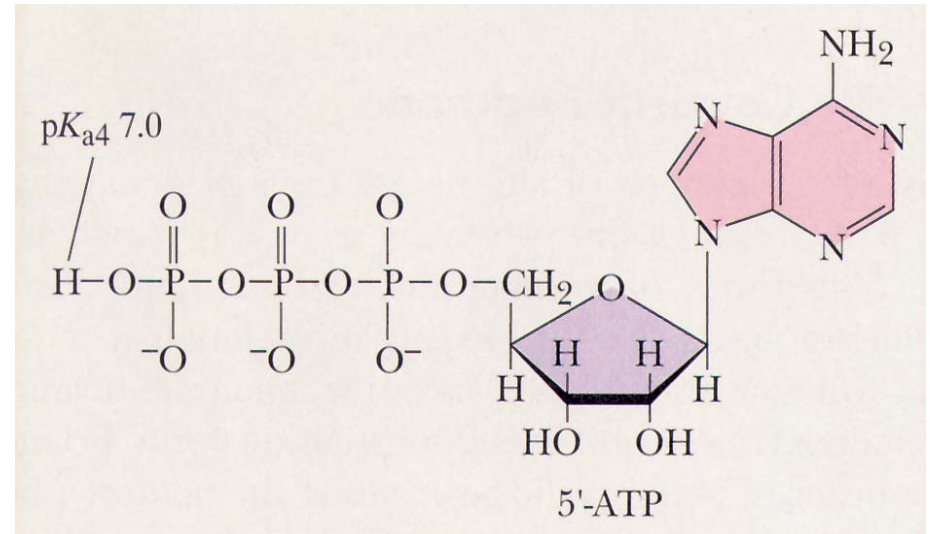
Guanosina

Nucleotide

È un nucleoside nel quale è presente un gruppo fosfato (o in 5' o in 3')

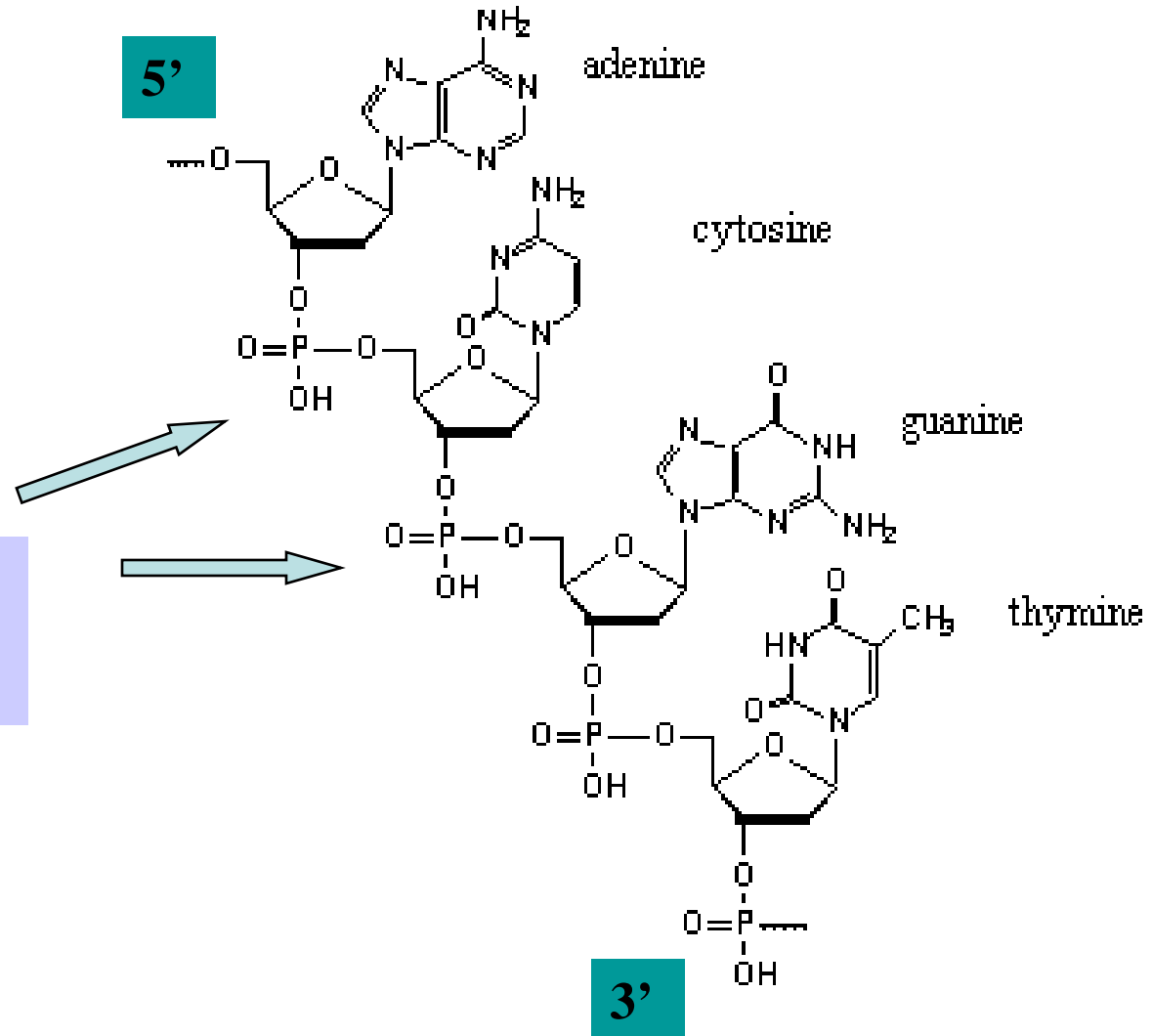


Adenosina-5'-monofosfato



Adenosina trifosfato (ATP)

Una parte di catena di DNA (a singolo filamento)

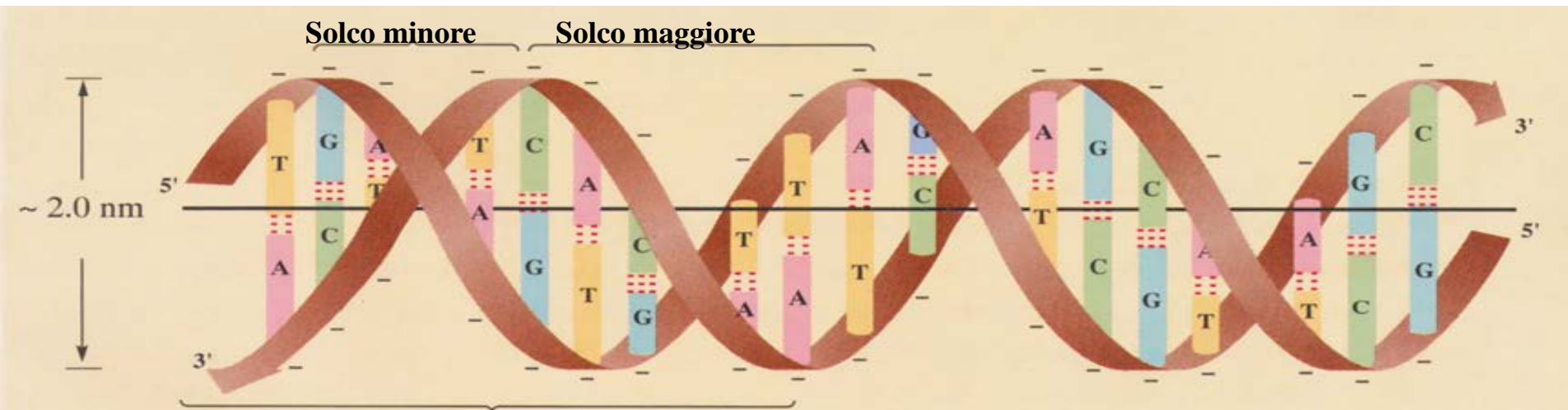


Le unità nucleosidiche
sono legate da ponti
(3'-5') fosfodiesterici

DNA struttura secondaria a doppia elica

Struttura scoperta da J.D. Watson e F.C. Crick nel 1953

Essa consiste di due filamenti polinucleotidici antiparalleli con avvolgimento destrogiro intorno allo stesso asse.



Passo dell'elica, ogni 10 basi

I due filamenti sono strettamente legati da legami idrogeno intercatena (tra basi di due filamenti diversi).

Timina

Adenina

Citosina

Guanina

