

# Eterocicli-quadro riassuntivo

**Gli eterocicli sono composti ciclici nei quali almeno un atomo del ciclo non è carbonio**

# Classificazione:

❖ Non aromatici

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❖ Aromatici

## Classificazione:

- ❖ Non aromatici

## Cicli a tre atomi: ossirani, aziridine e tiirani



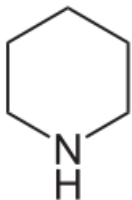
## Cicli a quattro atomi: ossetani, azetidina e tiettani



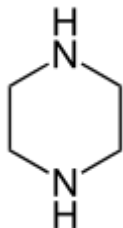
**Cicli a cinque atomi:  
tetraidrofurano, pirrolidina e tetraidrotiofene**



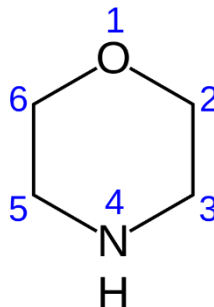
## Cicli a sei atomi non aromatici



Piperidina

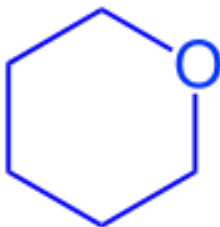


Piperazina

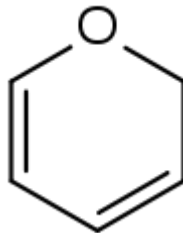


Morfolina

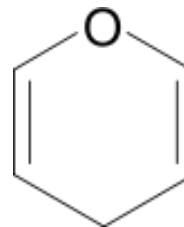
## Cicli a sei atomi non aromatici



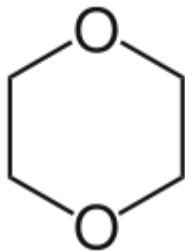
Tetraidropirano



2H-pirano



4H-pirano



1,4-diosano

# Eterocicli aromatici



# ETEROCICLI AROMATICI PENTATOMICI con 1 ETEROATOMO



pirrolo



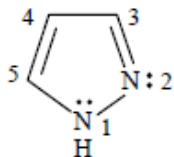
furano



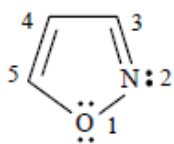
tiofene

# Eterocicli aromatici pentatomici azotati con 2 eteroatomi: azoli

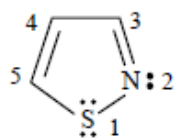
## ETEROATOMI: 1,2-



pirazolo  
1,2-diazolo



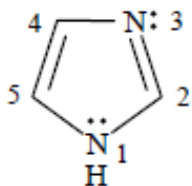
isossazolo  
1,2-ossazolo



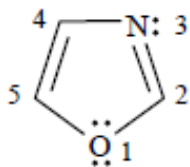
isotiazolo  
1,2-tiazolo

# Eterocicli aromatici pentatomici azotati con 2 eteroatomi: azoli

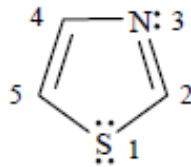
## ETEROATOMI: 1,3-



imidazolo  
1,3-diazolo

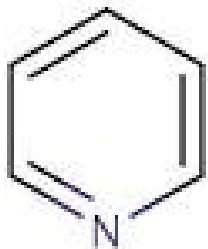


ossazolo  
1,3-ossazolo

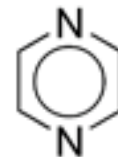
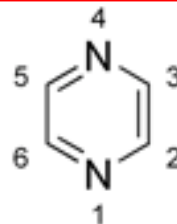
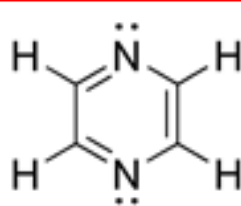


tiazolo  
1,3-tiazolo

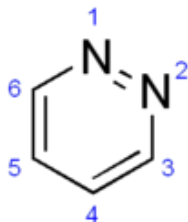
# Eterocicli aromatici azotati a 6 termini



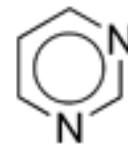
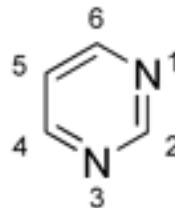
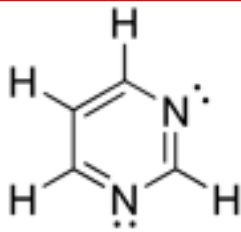
Piridina



Pirazina



Piridazina



Pirimidina

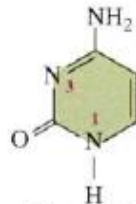
# Derivati pirimidinici presenti negli acidi nucleici



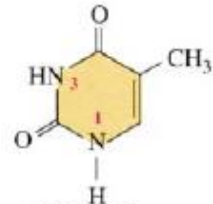
**Pirimidina**



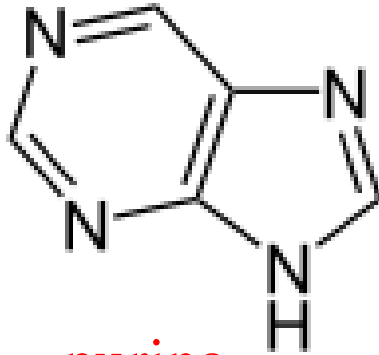
**Uracile (U)**



**Citosina (C)**



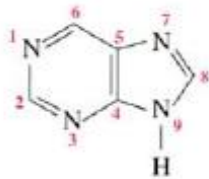
**Timina (T)**



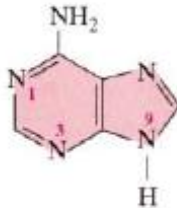
purina

Eterociclo aromatico: anello  
pirimidinico fuso con un anello  
imidazolico

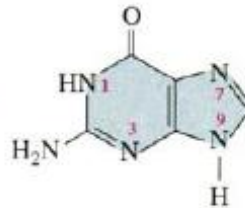
# Derivati purinici presenti negli acidi nucleici



Purina

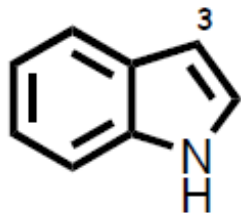


Adenina (A)

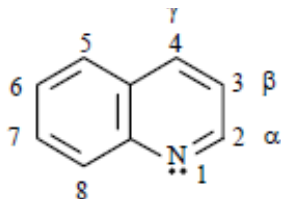


Guanina (G)

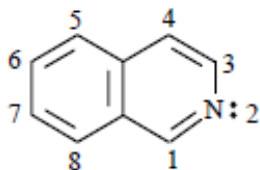
# Principali eterocicli benzocondensati



indolo



chinolina



isochinolina