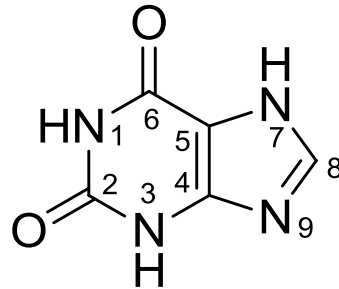
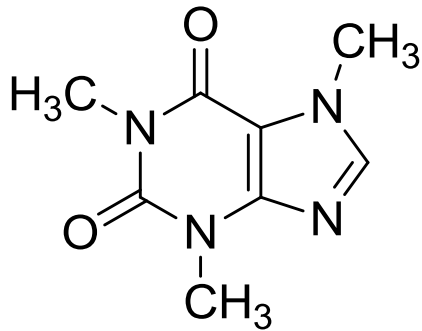


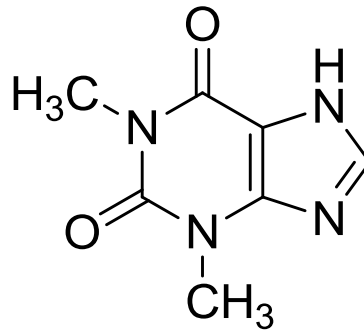
Alcaloidi Xantinici



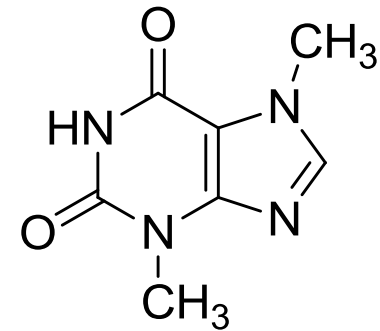
Xantina
(2,6-diossi-purina)



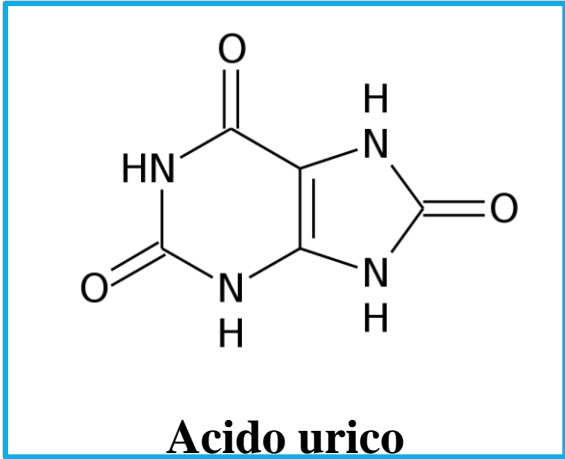
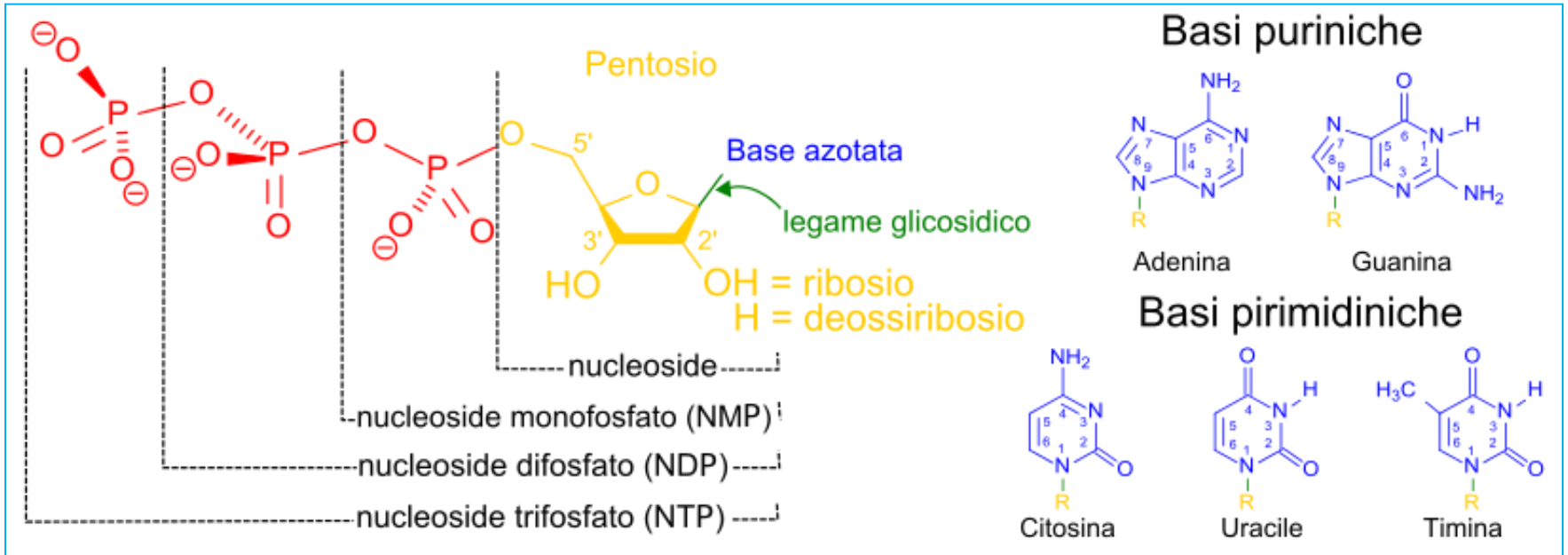
Caffeina
(1,3,7-trimetilxantina)



Teofillina
(1,3,-dimetilxantina)



Teobromina
(3,7-dimetilxantina)



ottenimento degli alcaloidi xantinici

- **Caffeina**

- semi del caffè (*Coffea arabica*)
- semi di cola (*Cola acuminata*)

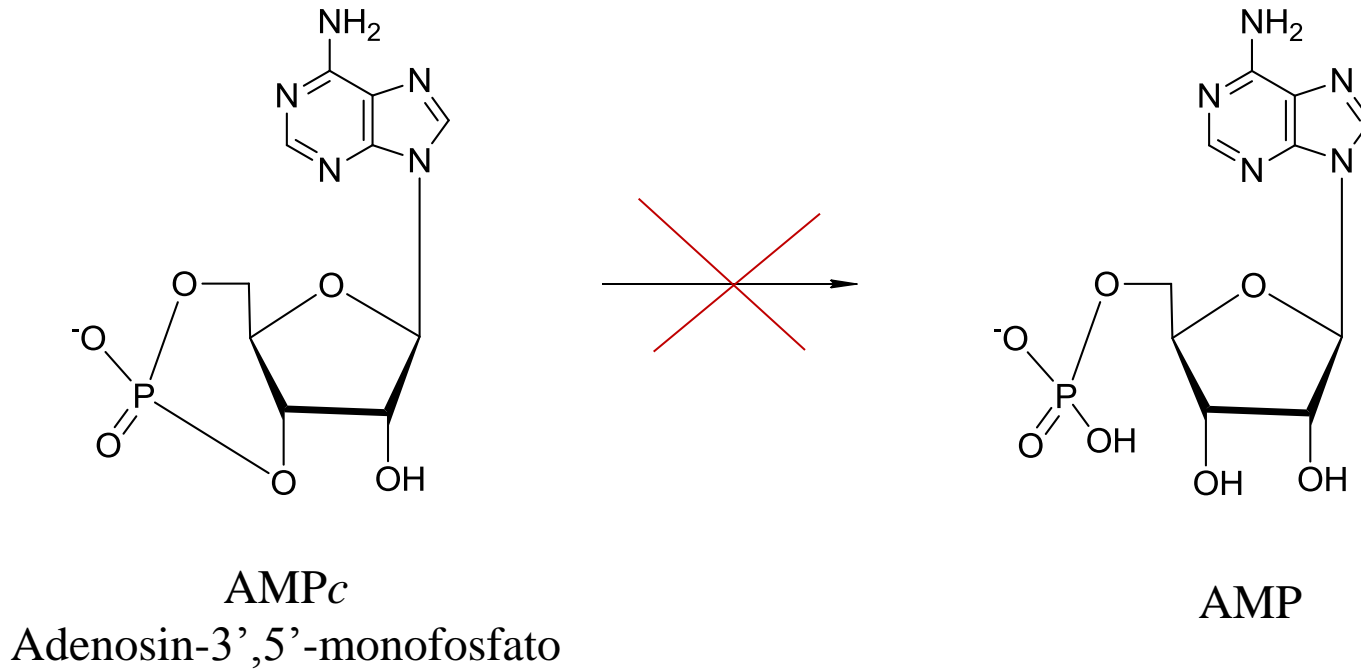
- **Teofillina**

- foglie di tè (*Thea sinensis* e *Camellia thea*)

- **Teobromina**

- semi di cacao (*Theobroma cacao*)

- Inibitori competitivi della *nucleotide ciclico fosfodiesterasi*



- Antagonisti sui *recettori dell'adenosina* A_1 e A_{2A} sia nel cuore che nell'encefalo

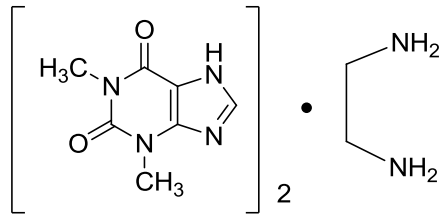
Azioni farmacologiche

- blanda azione stimolante del SNC
- azione stimolante sul miocardio (inotropa e cronotropa +)
- azione diuretica
- azione sulla muscolatura liscia
 - bronchioli →rilassamento
 - vasi (vasodilatazione periferica e vasocostrizione centrale)
- aumento delle secrezioni gastriche

Contenuto approssimativo di caffeina nelle bevande

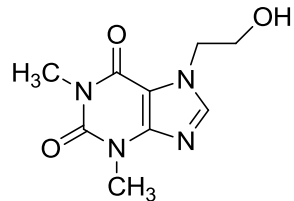
Bevanda	Contenuto in caffeina
Caffè espresso	100-150 mg/tazza
Caffè decaffeinato	2-10 mg/tazza
Tè	50-150 mg/tazza
Bibite a base di cola	40-50 mg/360ml*
Cioccolata	230-280 mg teobromina/tazza

Derivati semisintetici

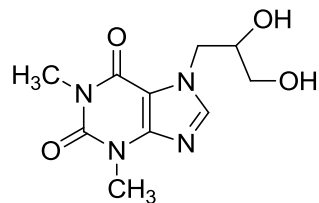


Aminofillina

Antiasmatico

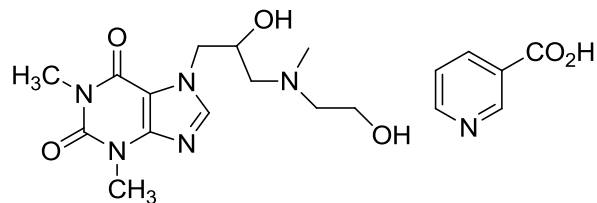


Idrossietil teofillina
(Etofillina)



Diidrossipropil teofillina
(Diprofillina)

Antiasmatico



Xantinolo nicotinato
(Complamin)