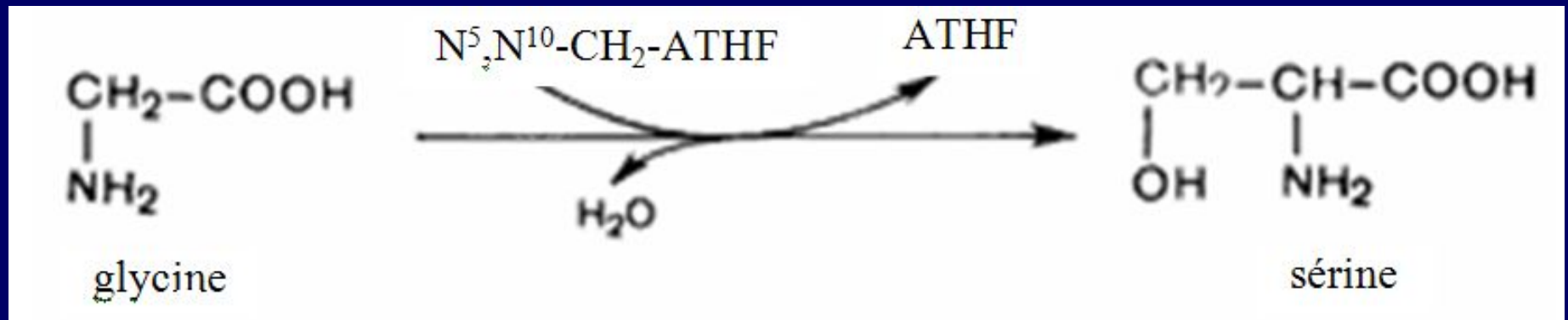


**MÉTABOLISME DE CERTAINS ACIDES AMINÉS.
PATHOLOGIES DU MÉTABOLISME AZOTÉ .
MÉTABOLISME DES HÉMOPROTÉINES.
BILIRUBINE. TYPES DES ICTÈRES.
MÉTABOLISME DES NUCLÉOPROTÉINES.
BIOSYNTHÈSE ET DÉCOMPOSITION
DES ACIDES NUCLÉIQUES.**



MÉTABOLISME DES ACIDES AMINÉS

- GLYCINE, SÉRINE, THRÉONINE



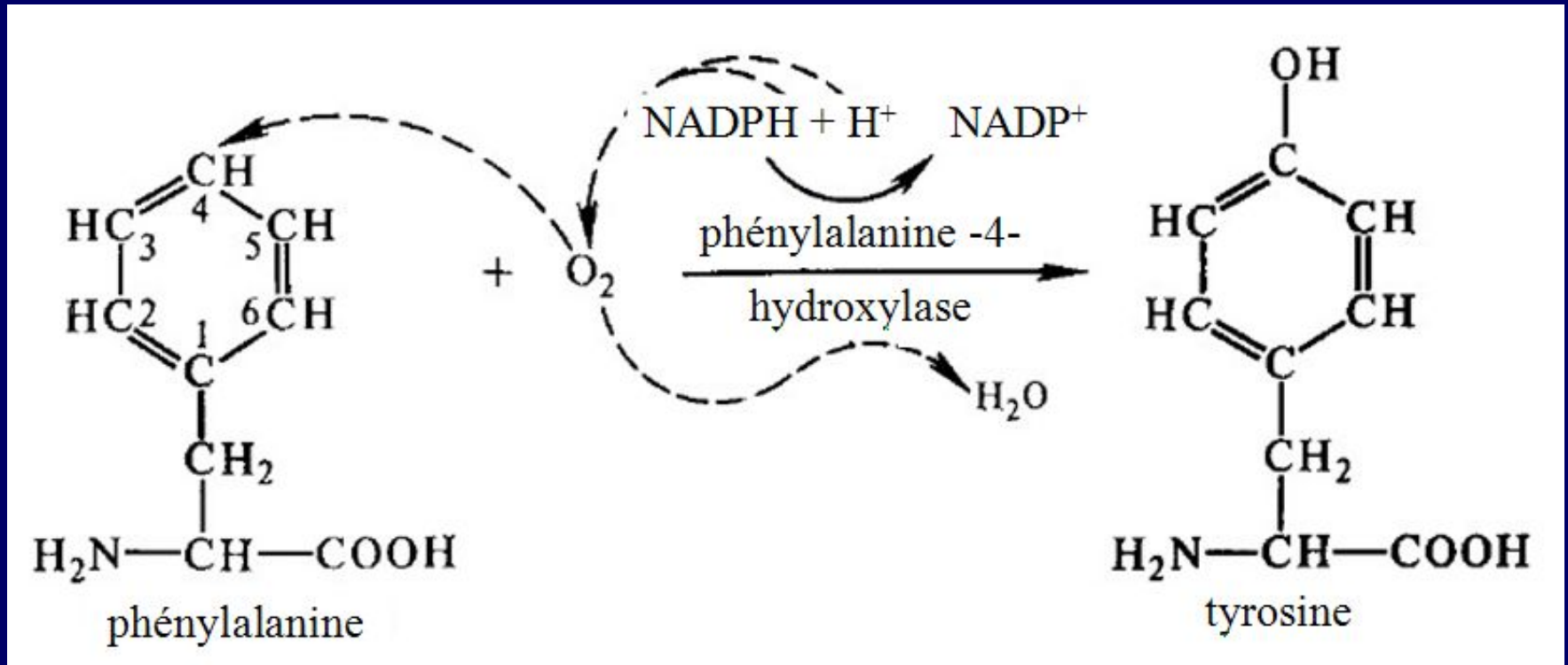
- LES ACIDES AMINÉS SULFURÉS

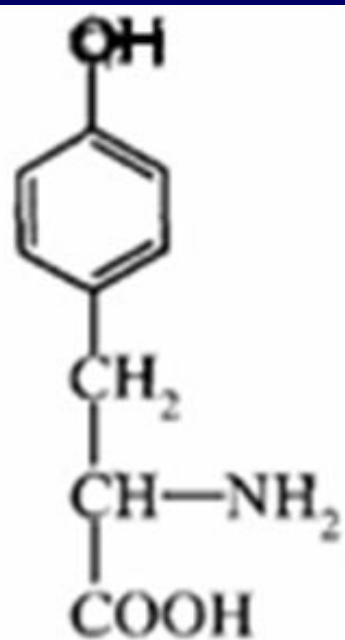
Méthionine + ATP → S-adénosylméthionine + PP + P

- LES ACIDES AMINÉS AVEC LA CHAÎNE RAMIFIÉE

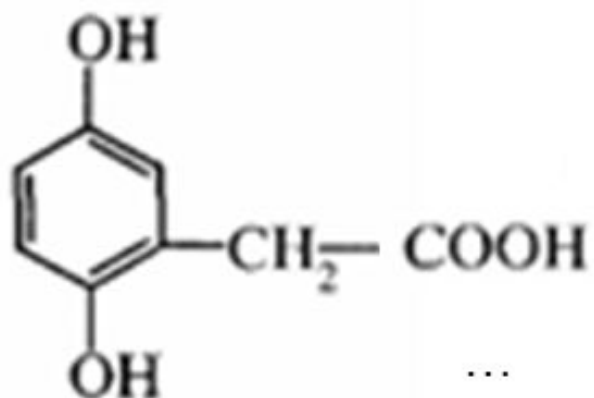
Leu, Ile, Val → α-céto-acides → l'acyl-CoA dérivés

- PHÉNYLALANINE ET TYROSINE





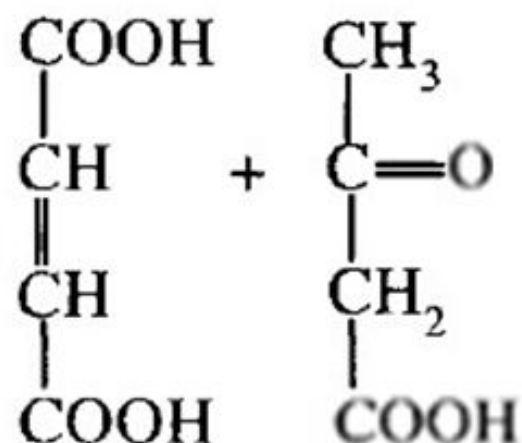
tyrosine



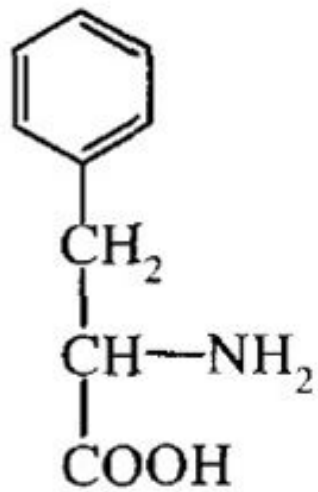
acide homogentisique

...

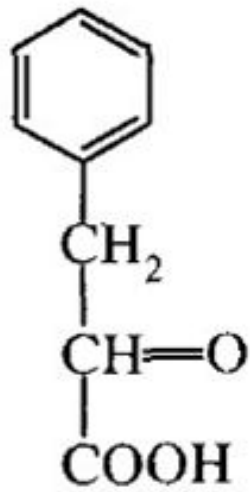
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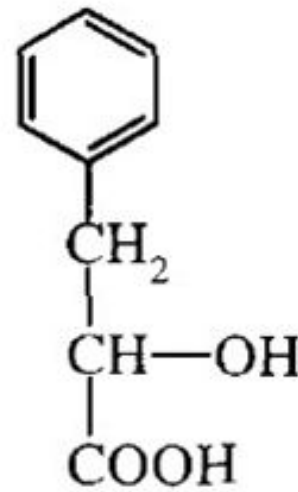
fumarate acéto-acétate



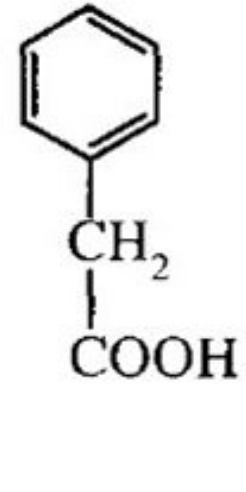
phénylalanine



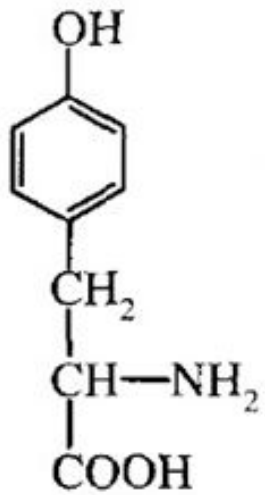
phénylpyruvate



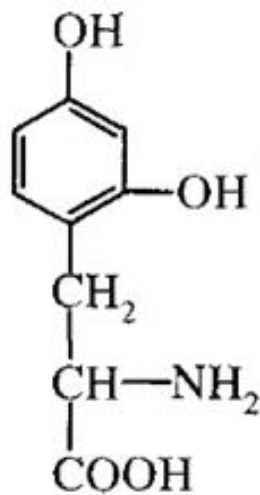
phényllactate



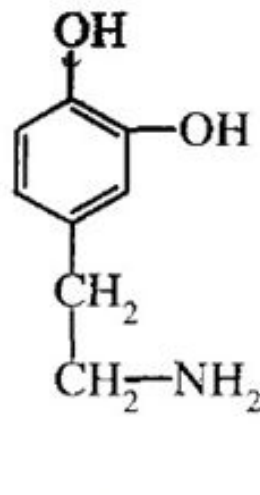
phénylacétate



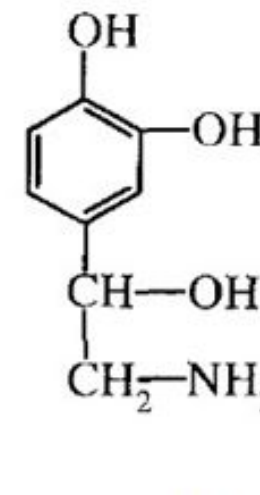
tyrosine



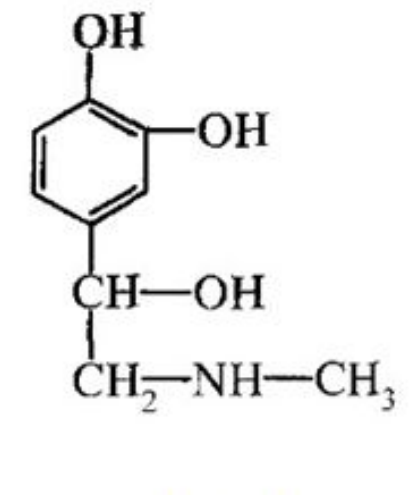
DOPA



dopamine



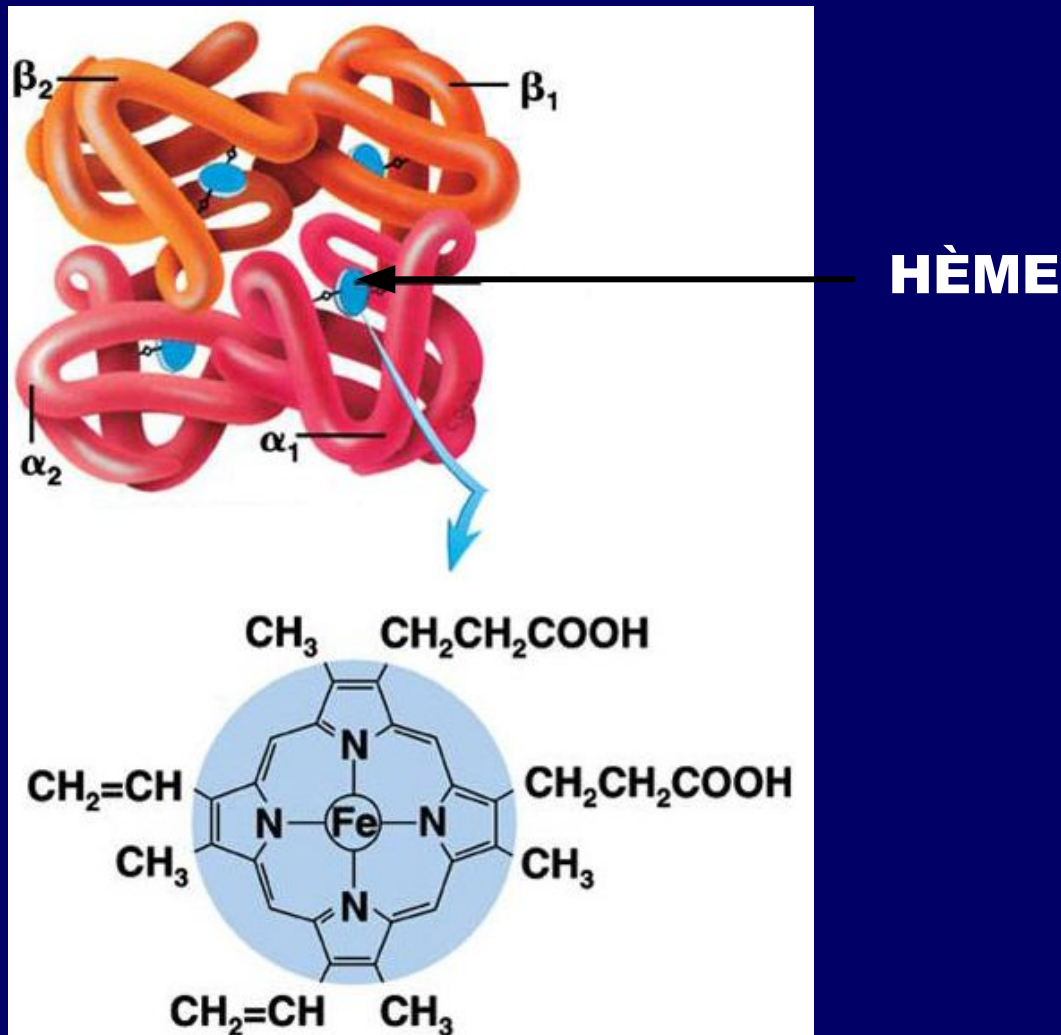
noradrénaline

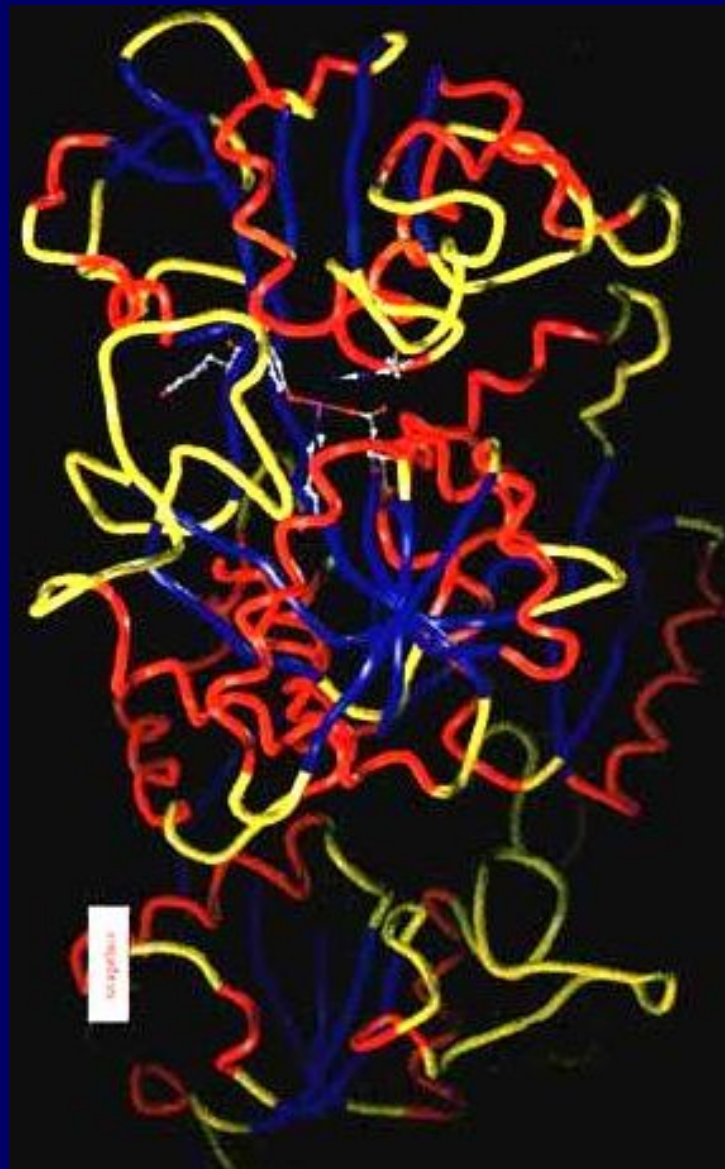


adrénaline

MÉTABOLISME DES HÉMOPROTÉINES

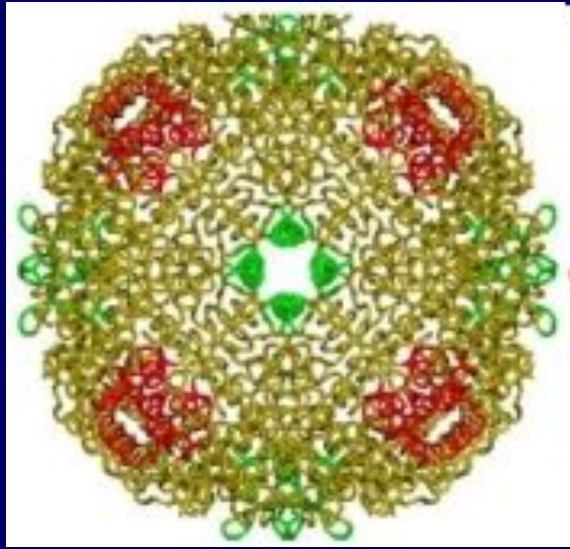
STRUCTURE DE L'HÉMOGLOBINE





TRANSFERRINE

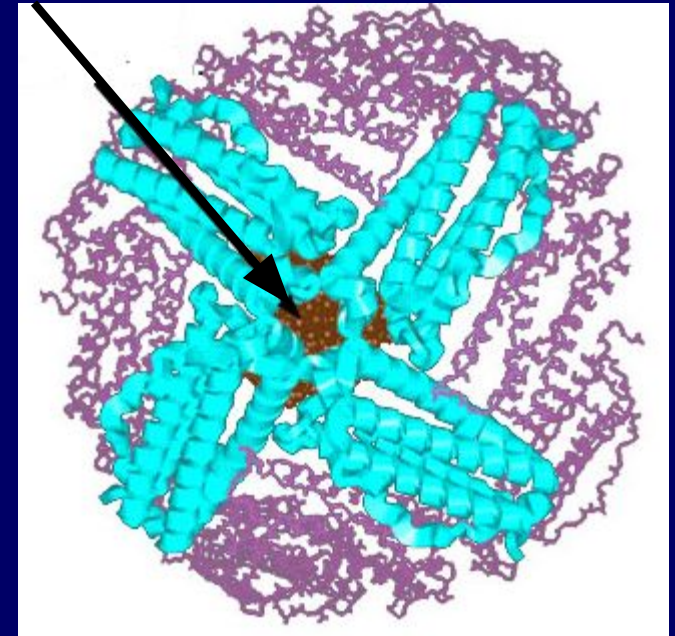
FORMATION DE LA FERRITINE



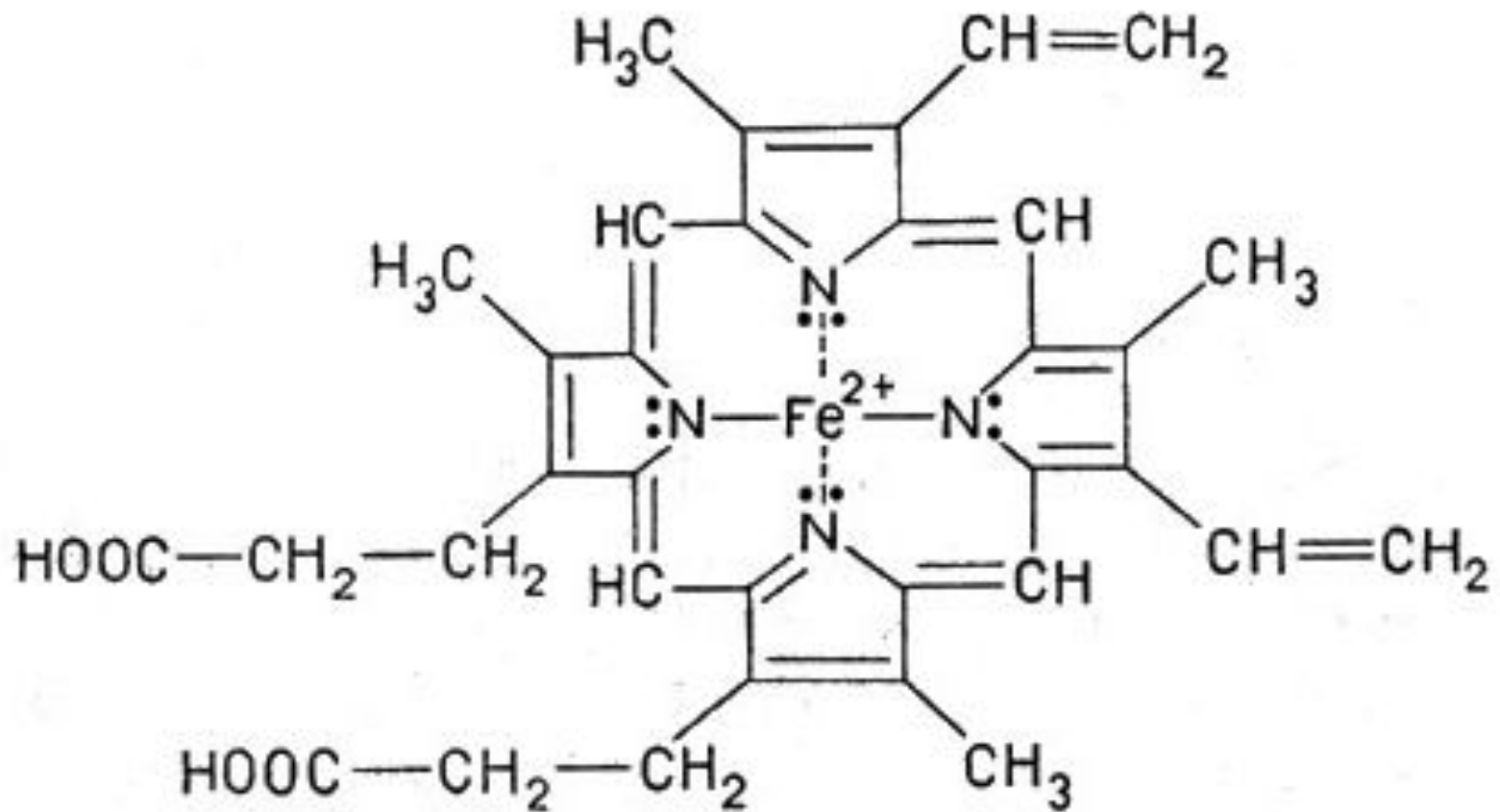
APOFERRITINE



Fe^{2+}



FERRITINE



HÈME

DÉCOMPOSITION DE L'HÉMOGLOBINE

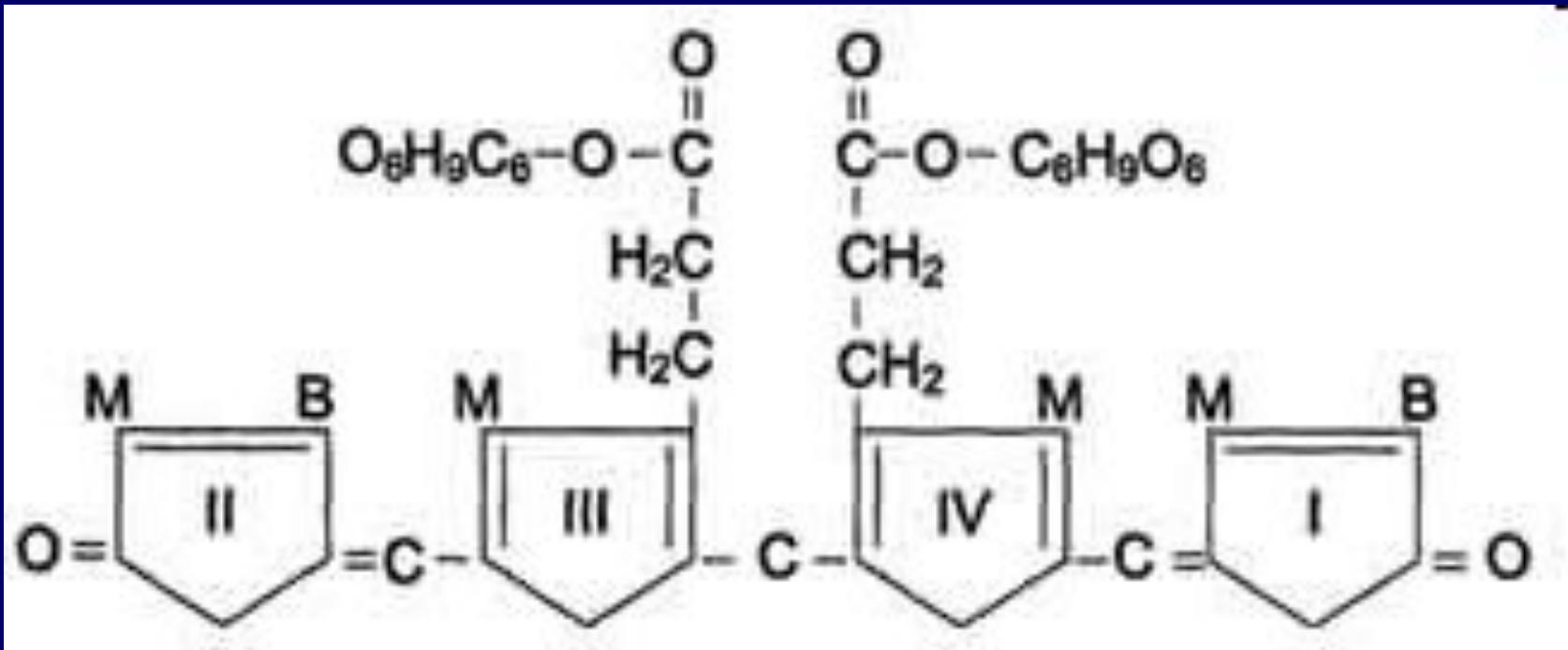
HÉMOGLOBINE

```
graph TD; A[HÉMOGLOBINE] --> B[VERDOGLOBINE]; B --> C["BILIVERDINE  
FERROGLOBINE"]; C --> D[BILIRUBINE];
```

VERDOGLOBINE

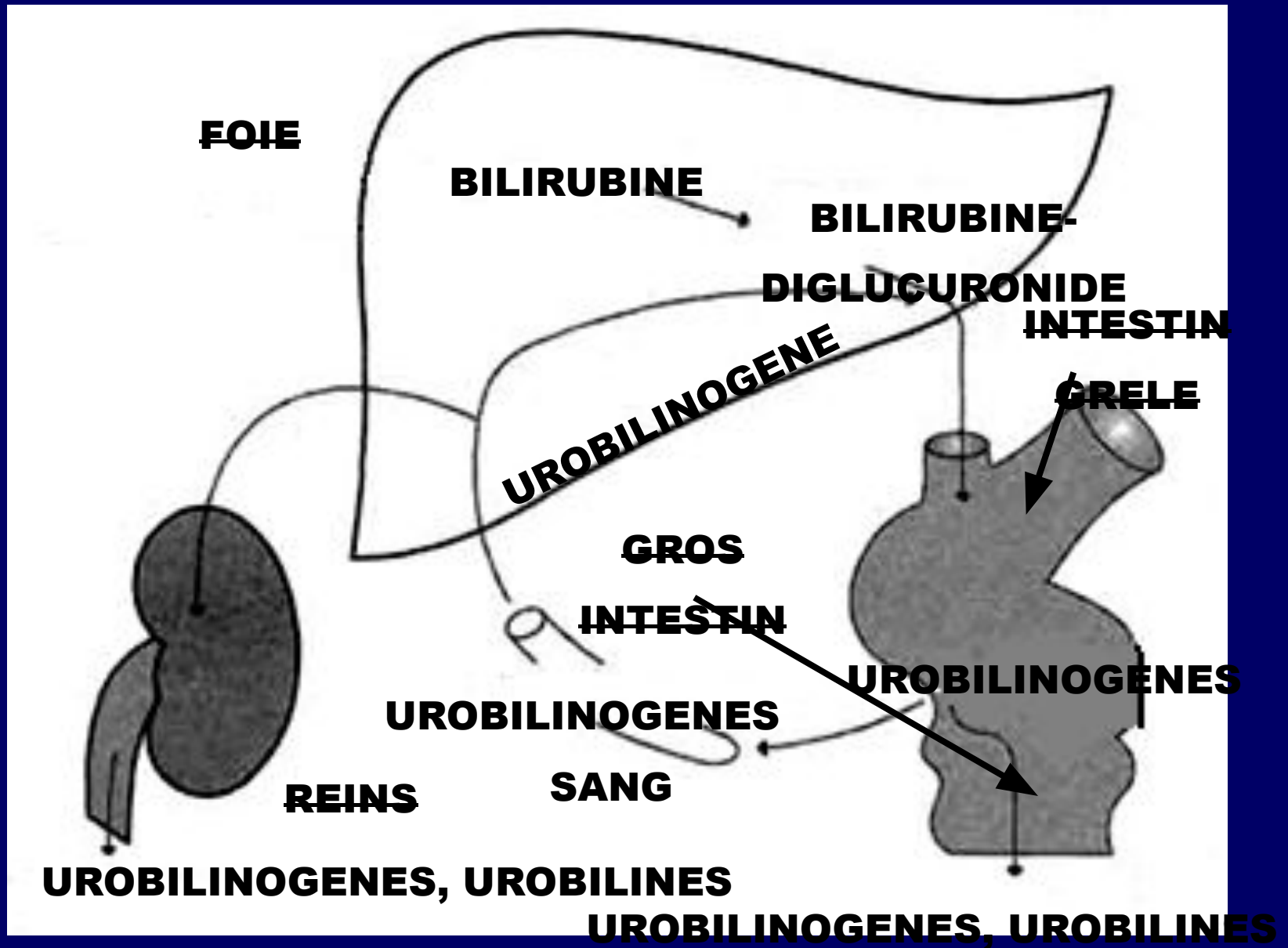
**BILIVERDINE
FERROGLOBINE**

BILIRUBINE



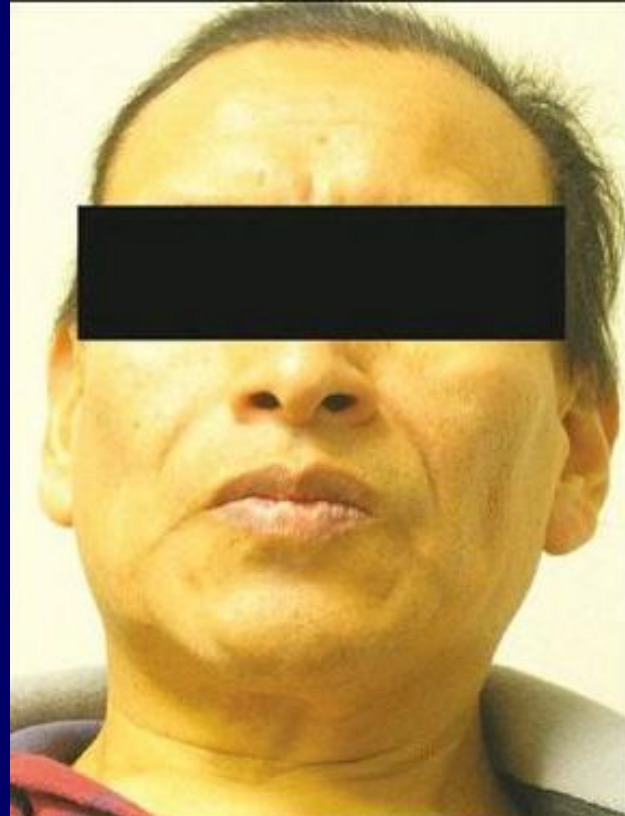
BILIRUBINE CONJUGUÉE (BILIRUBINEDIGLUCURONIDE)

MÉTABOLISME DE LA BILIRUBINE



TYPES DES ICTÈRES (DES JAUNISSES)





DIAGNOSTIC DIFFÉRENTIEL

TYPE DE JAUNISSE	SANG			URINE		SELLES
	BILIRUBINE			BILIRUBINE CONJUGUÉE	UROBILINOGENE	STERCIBILINOGENE
	TOTALE	NON-CONJUGUÉE	CONJUGUÉE			
HÉMOLYTIQUE	↑	↑	N OU ↑	0	+	↑
PARENCHYMATUEUSE («CYTOLYTIQUE»)	↑	N OU ↑	↑	↑	0	0
OBSTRUCTIVE (MÉCANIQUE)	↑	↑	↑	↑	+	↓

N – NORME;



– AUGMENTATION;



– ABAISSEMENT;

0 – N'EST PAS DÉTERMINÉE;

+ EST DÉTERMINÉE

SYNTHÈSE DE L'HÉMOGLOBINE

SUCCINYL-C₀A + GLYCINE



**5-ACIDE
AMINOLÉVULINIQUE**



PORPHILIBILINOGENÈ



HÈME + GLOBINE



HÉMOGLOBINE

MÉTABOLISME
DES NUCLÉOPROTÉINES

DÉCOMPOSITION
DES NUCLÉOSIDEPHOSPHATES



DÉCOMPOSITION DES BASES PURIQUES

ADÉNINE

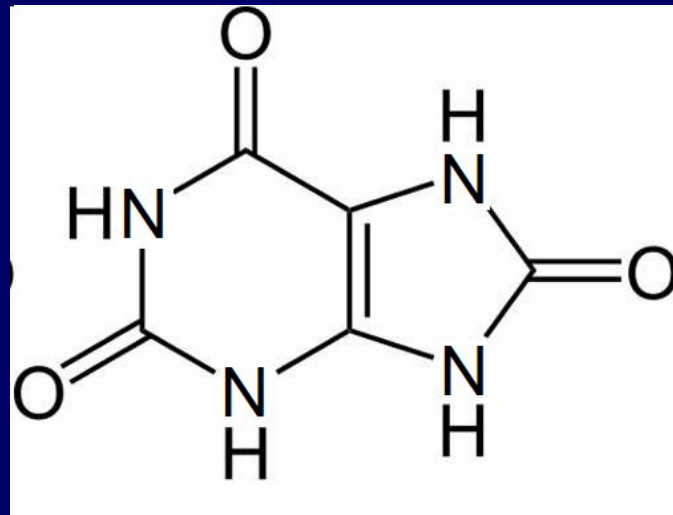
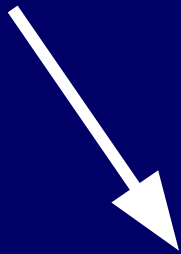


HYPOXANTHINE

GUANINE



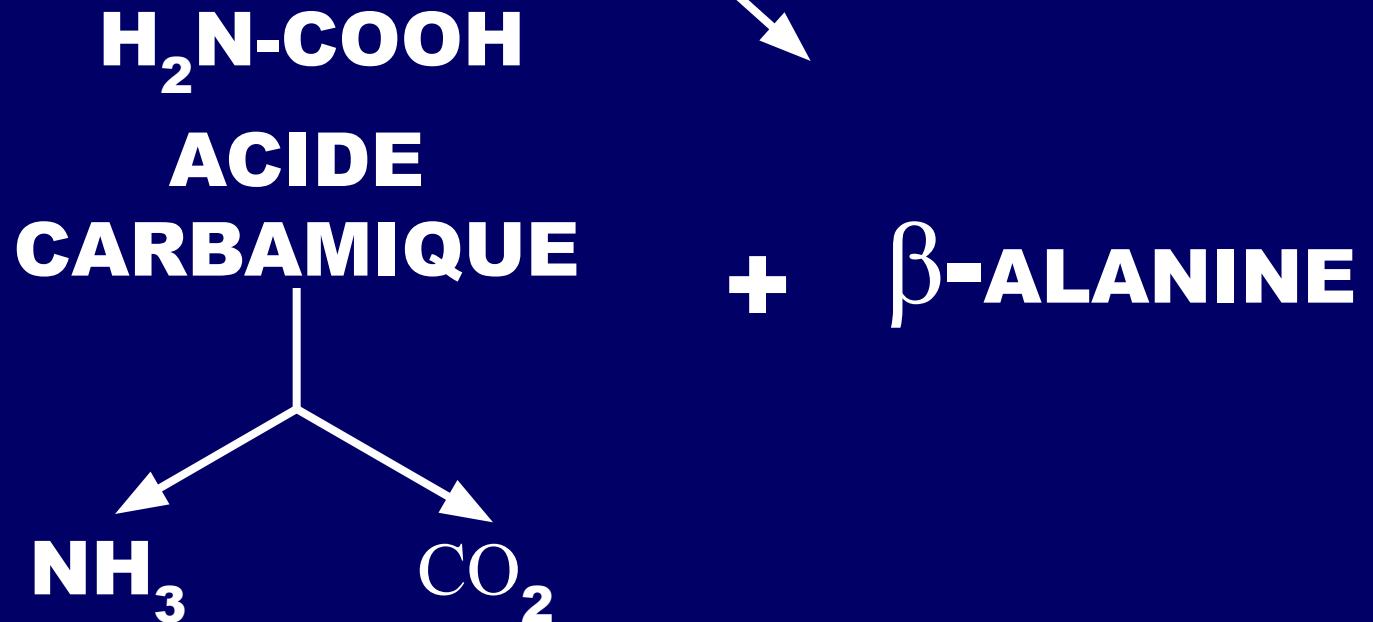
XANTHINE



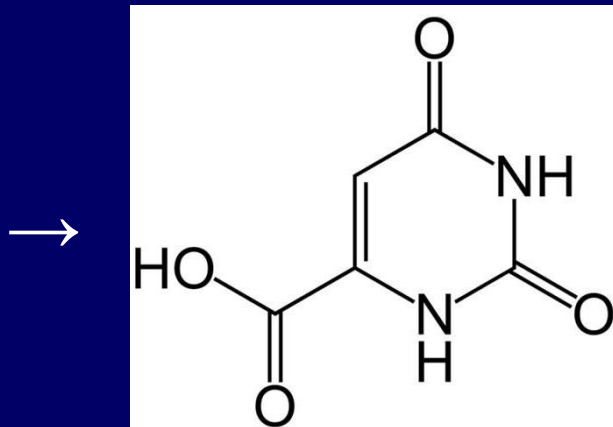
ACIDE URIQUE

DÉCOMPOSITION DES BASES PYRIMIDIQUES

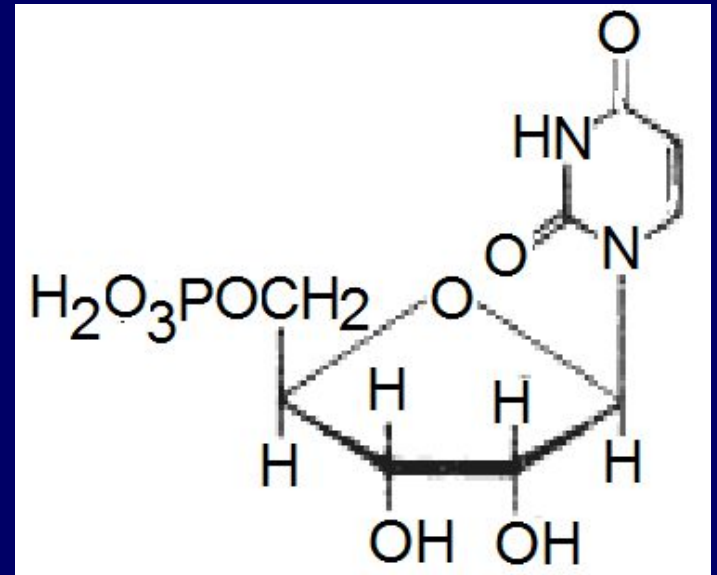
CYTOSINE → URACILE



SYNTHÈSE DES NUCLÉOTIDES PYRIMIDIQUES



OROTATE

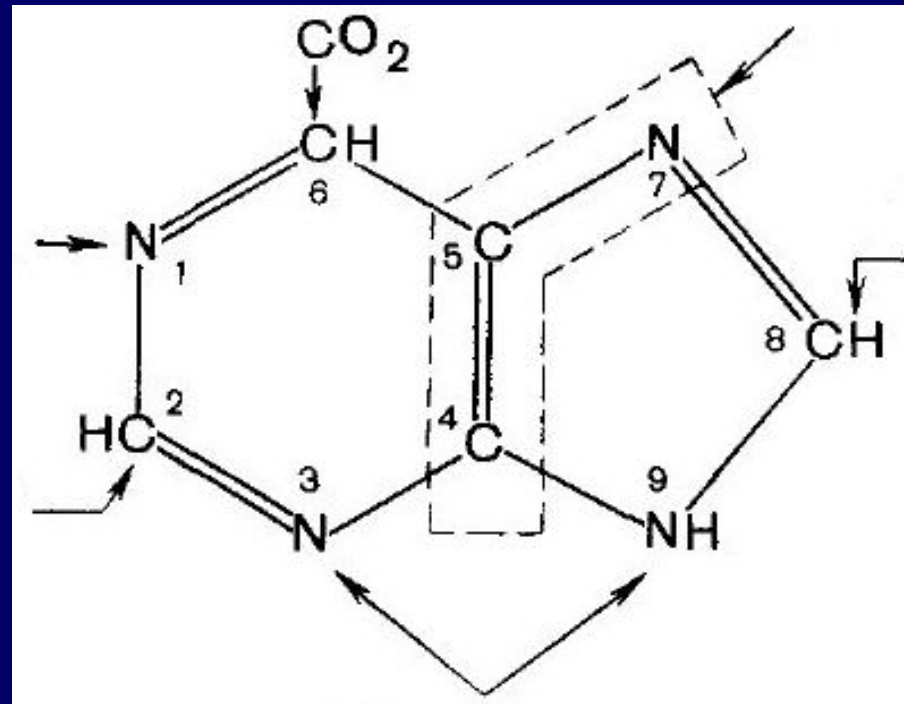


**ACIDE
NURIDYLIQUE**

BIOSYNTHÈSE DES BASES PURIQUES

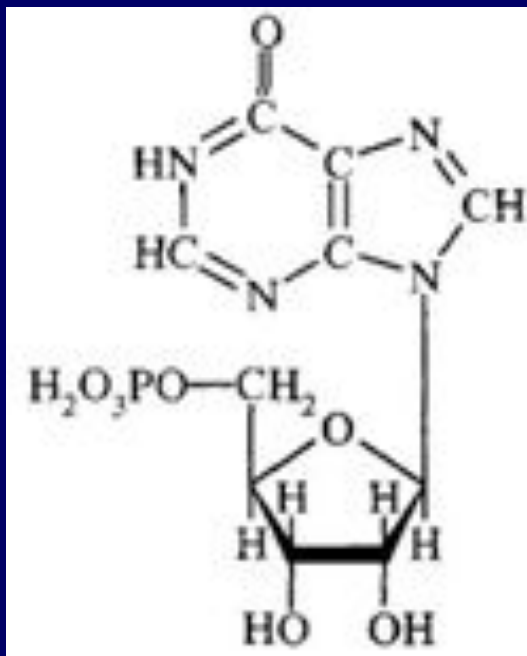
ASPARTATE

N¹⁰-CHO-ATHF

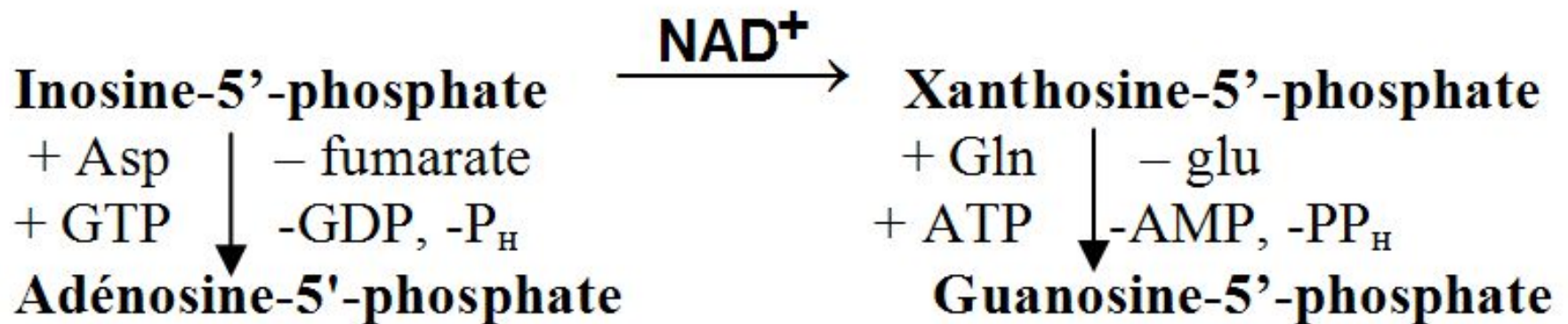


N⁵,N¹⁰=CH-ATHF

**AZOTE AMINE
DE GLUTAMINE**



ACIDE INOSINIQUE



SYNTHÈSE DES DÉSOXYRIBONUCLÉOTIDES

