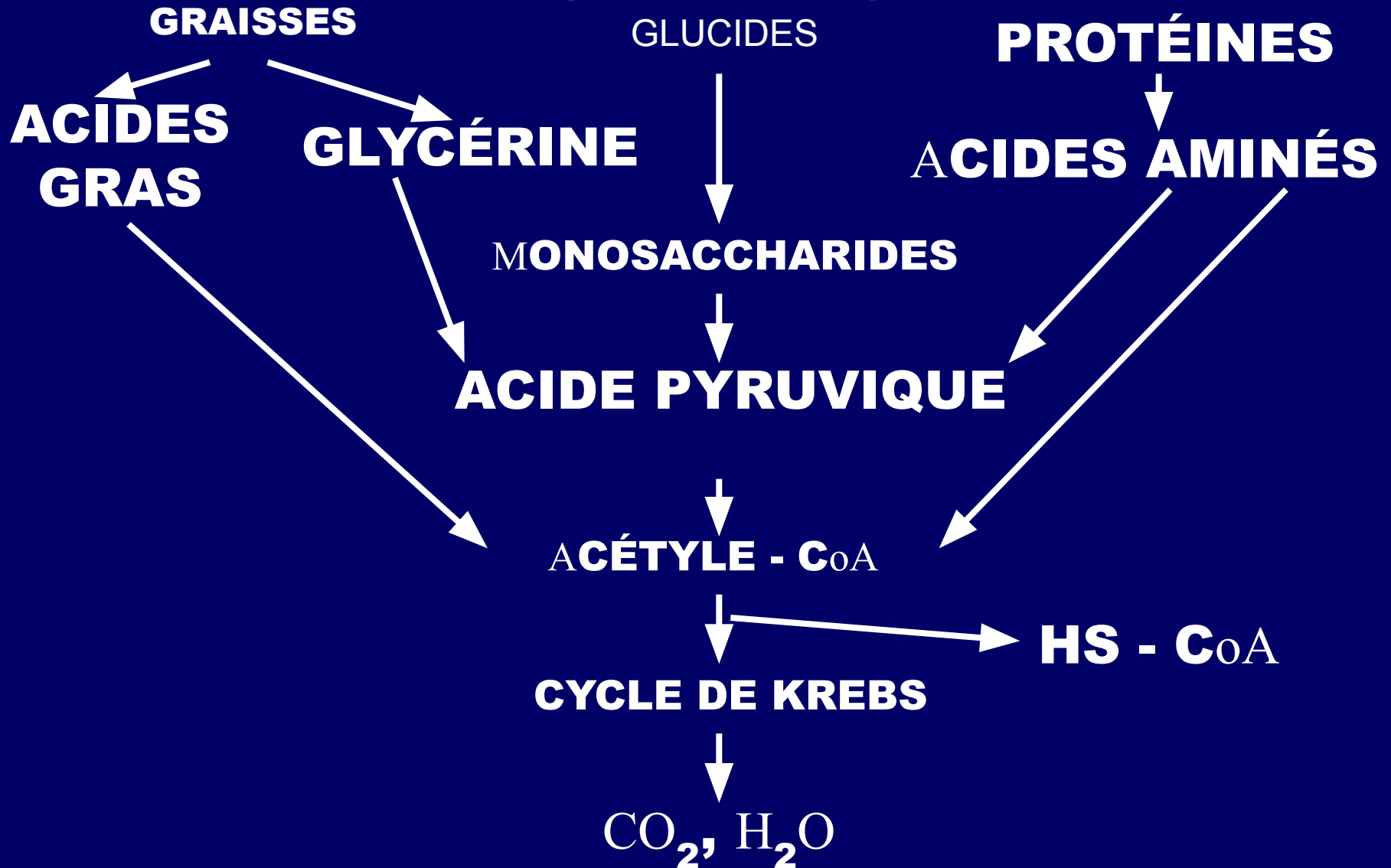


**LES NOTIONS DE
CATABOLISME ET
ANABOLISME. LA VOIE TOTALE
DU CATABOLISME.
DÉCARBOXYLATION
OXYDATIVE DE L'ACIDE
PYRUVIQUE.
CYCLE DE KREBS.**

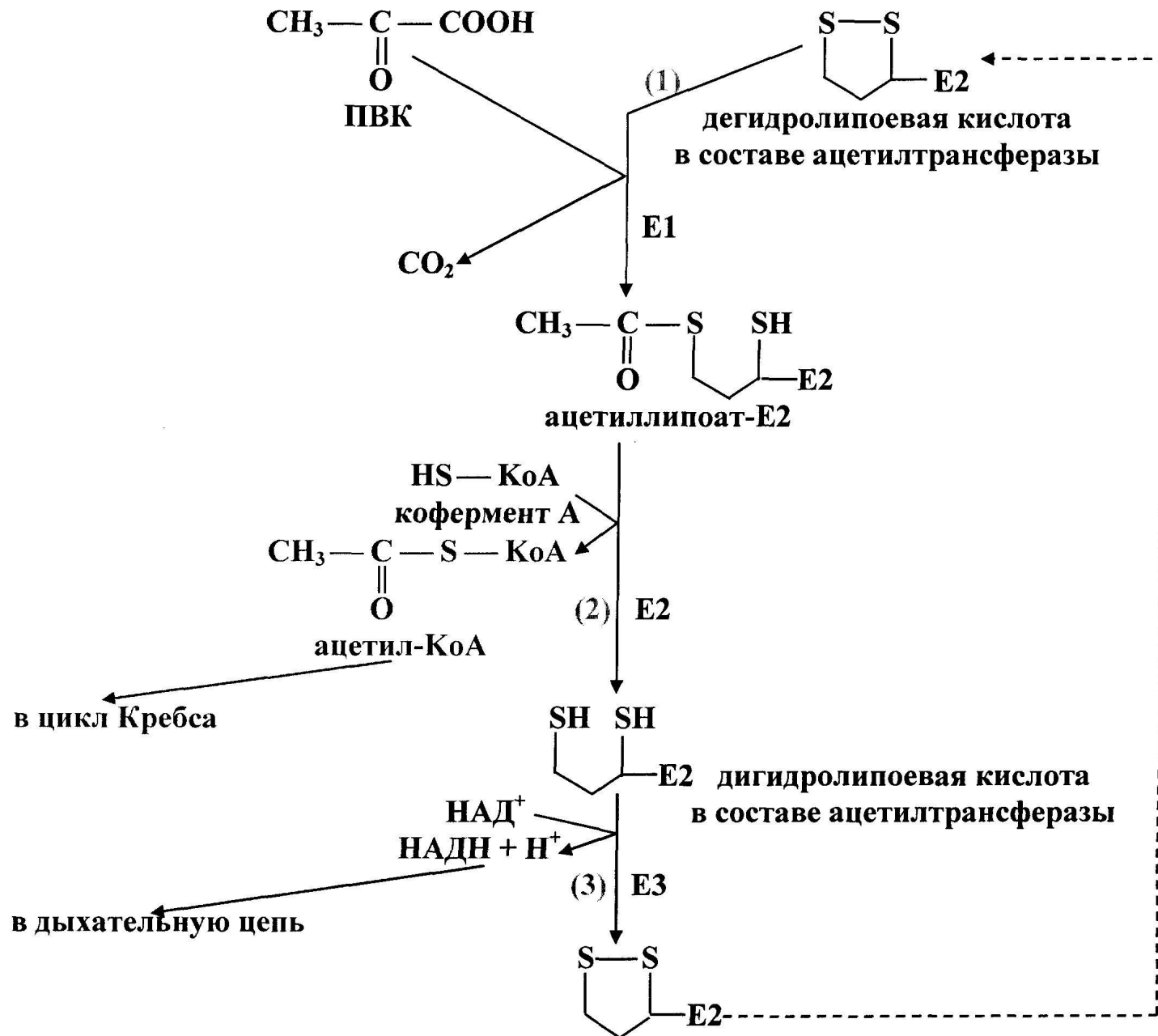
LE CATABOLISME DES SUBSTANCES NUTRITIVES



LA MOLÉCULE DE L'ACÉTYLE-C₀A



LA DÉCARBOXYLATION OXIDATIVE DE L'AP

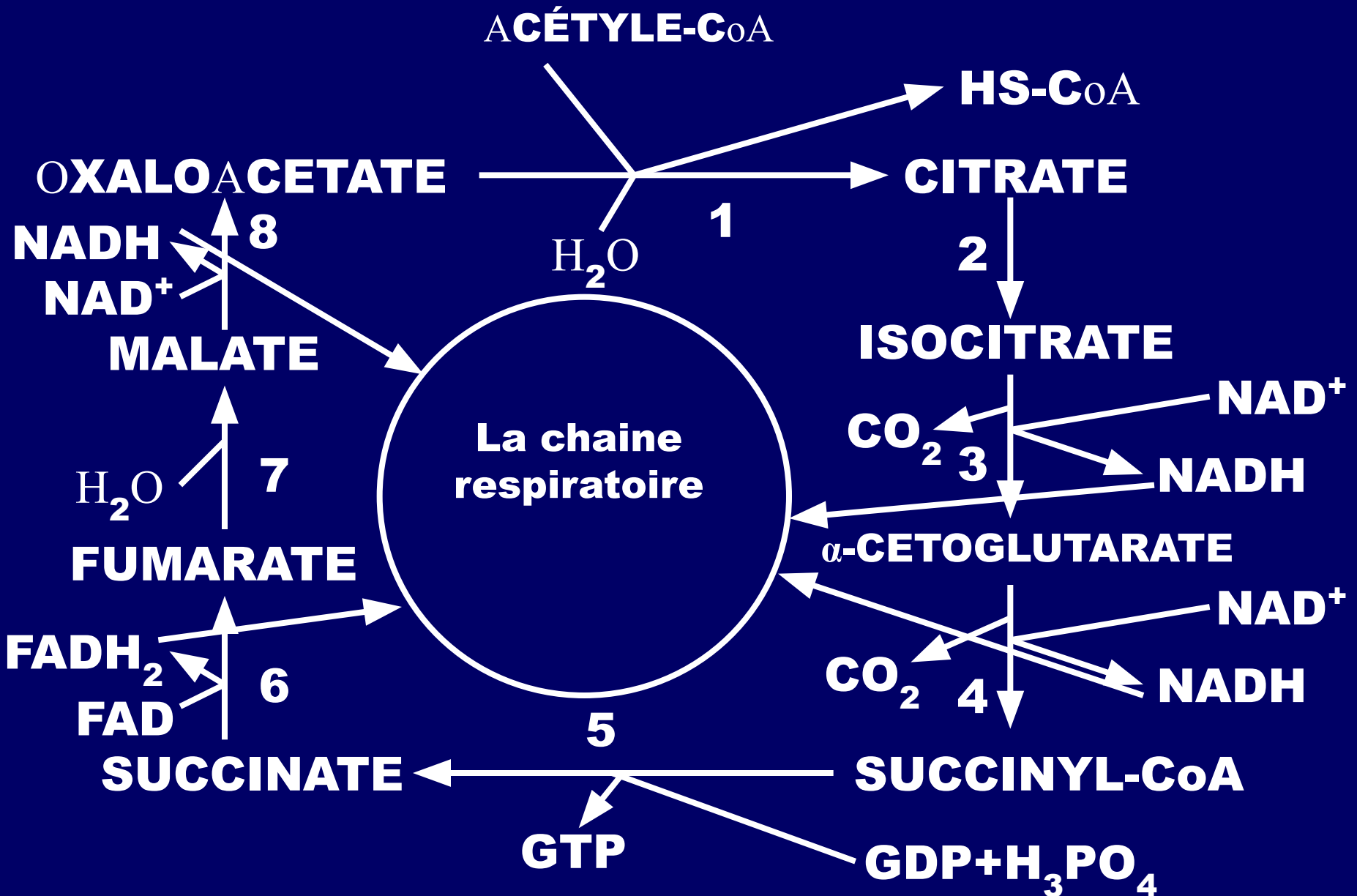




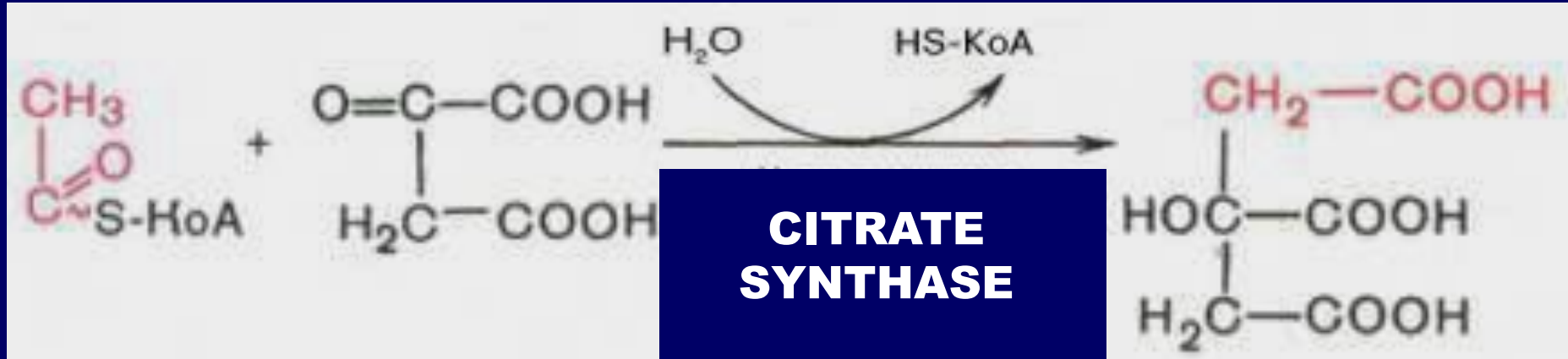
**Pour la
découverte
du cycle des
acides
tricarboxyliques
Hans Krebs
a reçu en 1953 le
prix Nobel**

Hans Krebs

CYCLE DE KREBS



LES RÉACTIONS DU CYCLE DE KREBS

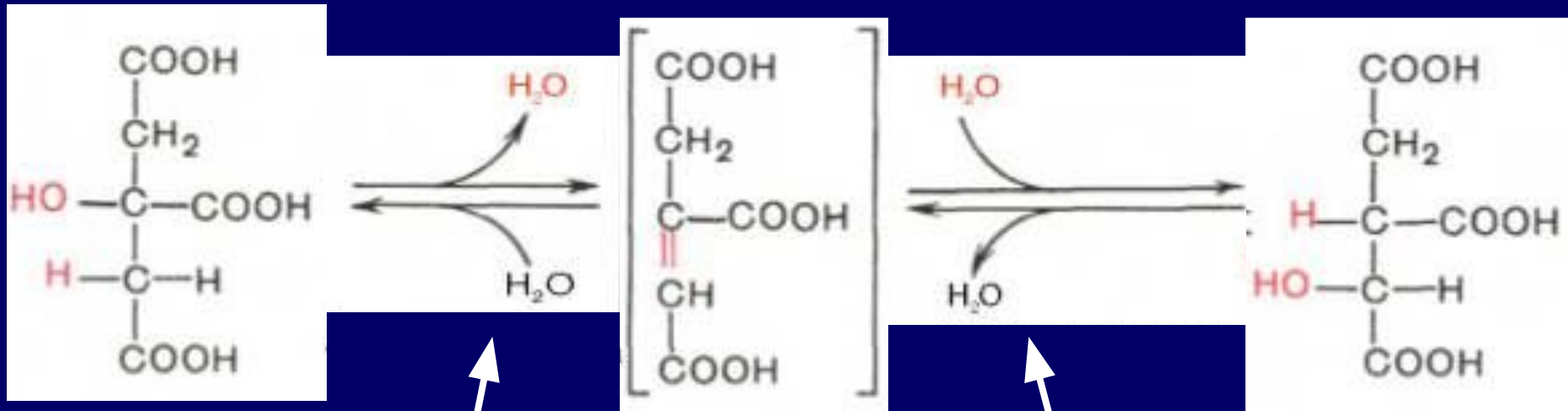


**CITRATE
SYNTHASE**

**ACÉTYLE
-CoA**

**OXALO
ACÉTATE**

CITRATE



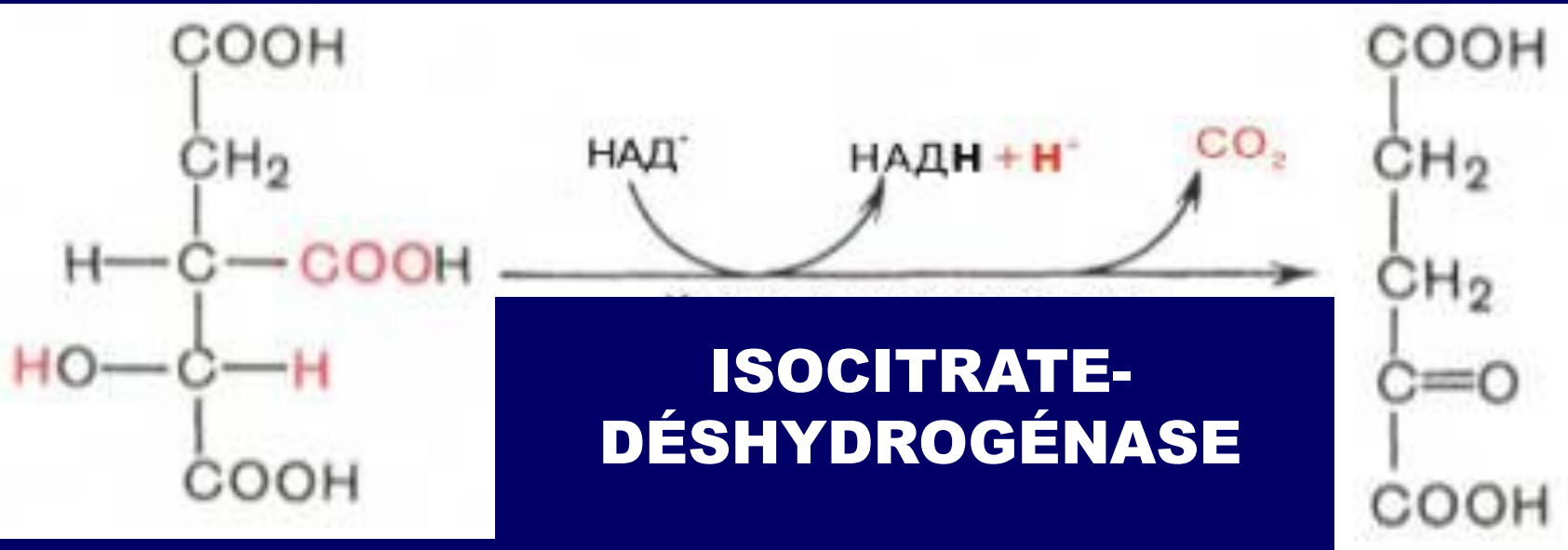
CITRATE

CIS-ACONITATE

ISOCITRATE

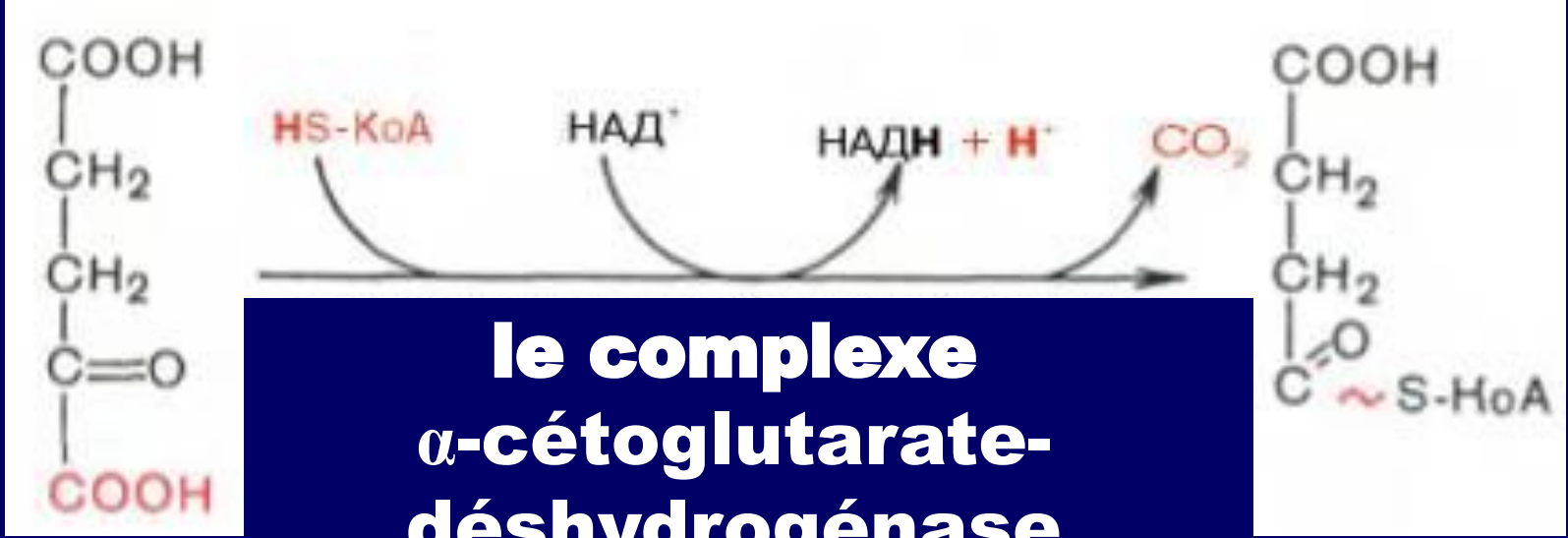
ACONITATE-HYDRATASE

ACONITATE-HYDRATASE



ISOCITRATE

α -CÉTOGLUTARATE

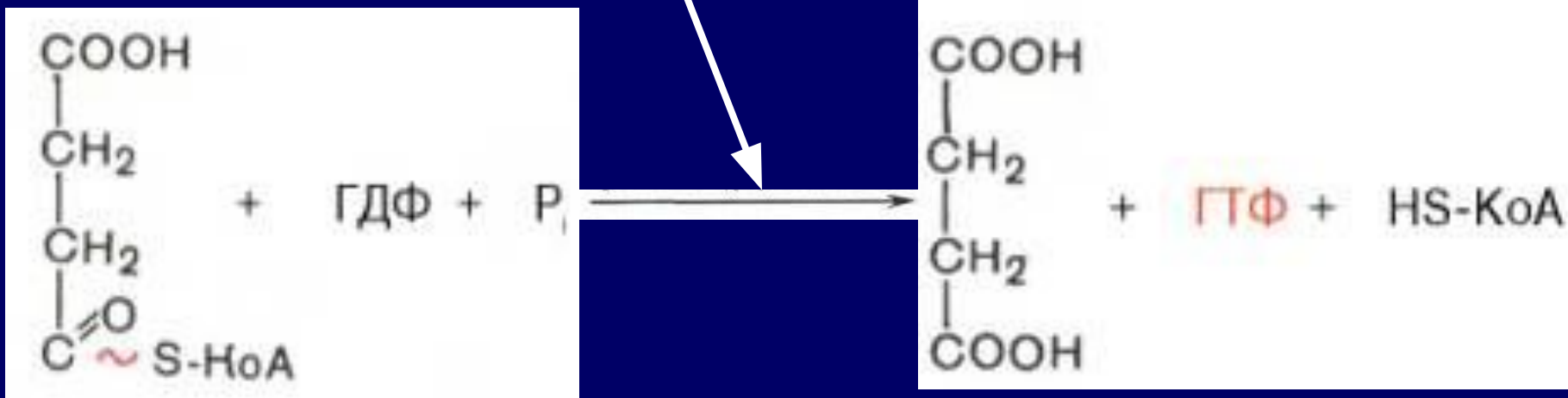


**le complexe
 α -cétoglutarate-
déshydrogénase**

α -cétoglutarate

succinyl- CoA

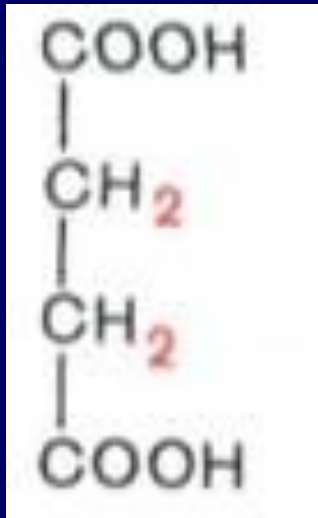
SUCCINYL-C₀A-SYNTHÉTASE



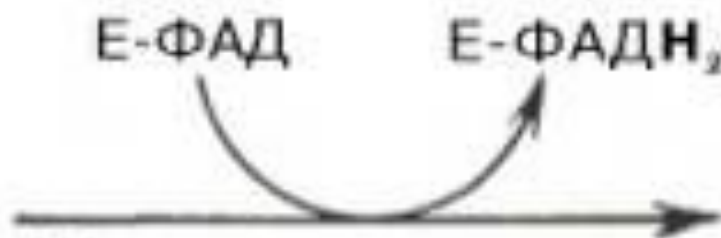
SUCCINYL-C₀A

SUCCINATE

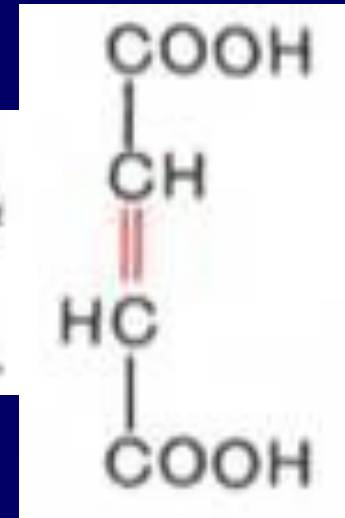




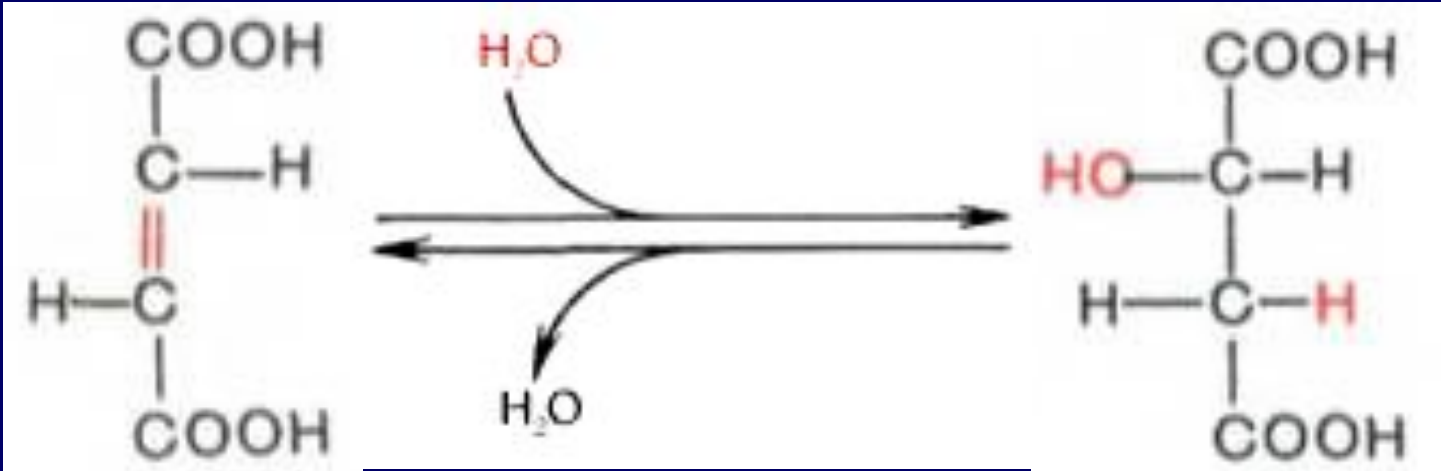
SUCCINATE



**SUCCINATE-DÉSH
YDRO GÉNASE**



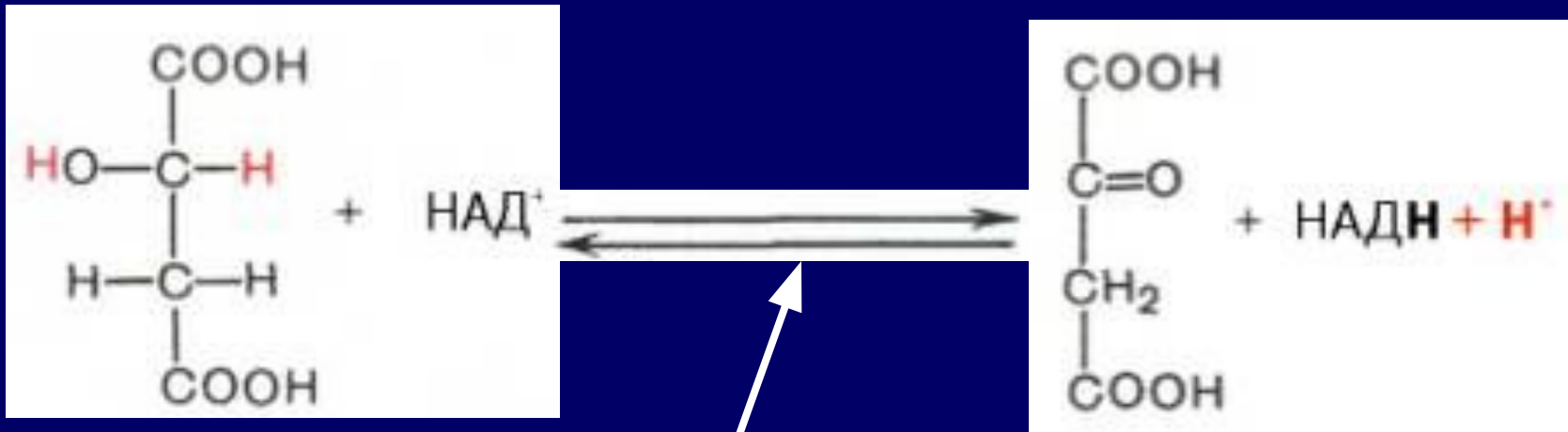
FUMARATE



FUMARATE

FUMARASE

L-MALATE



L-MALATE

OXALOACÉTATE

**MALATEDÉSHYDROGÉNASE
(ENZYME MALIQUE)**