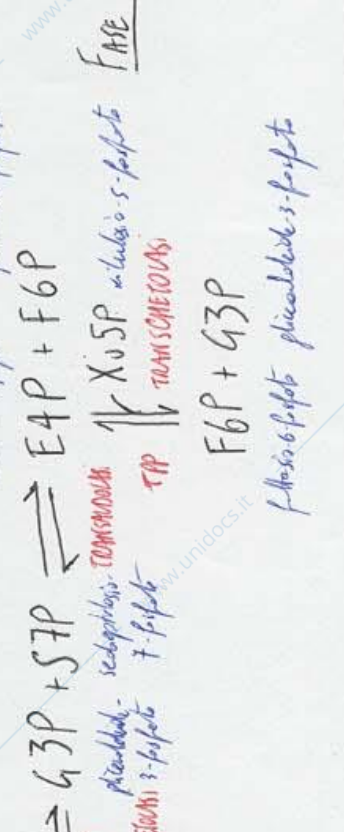
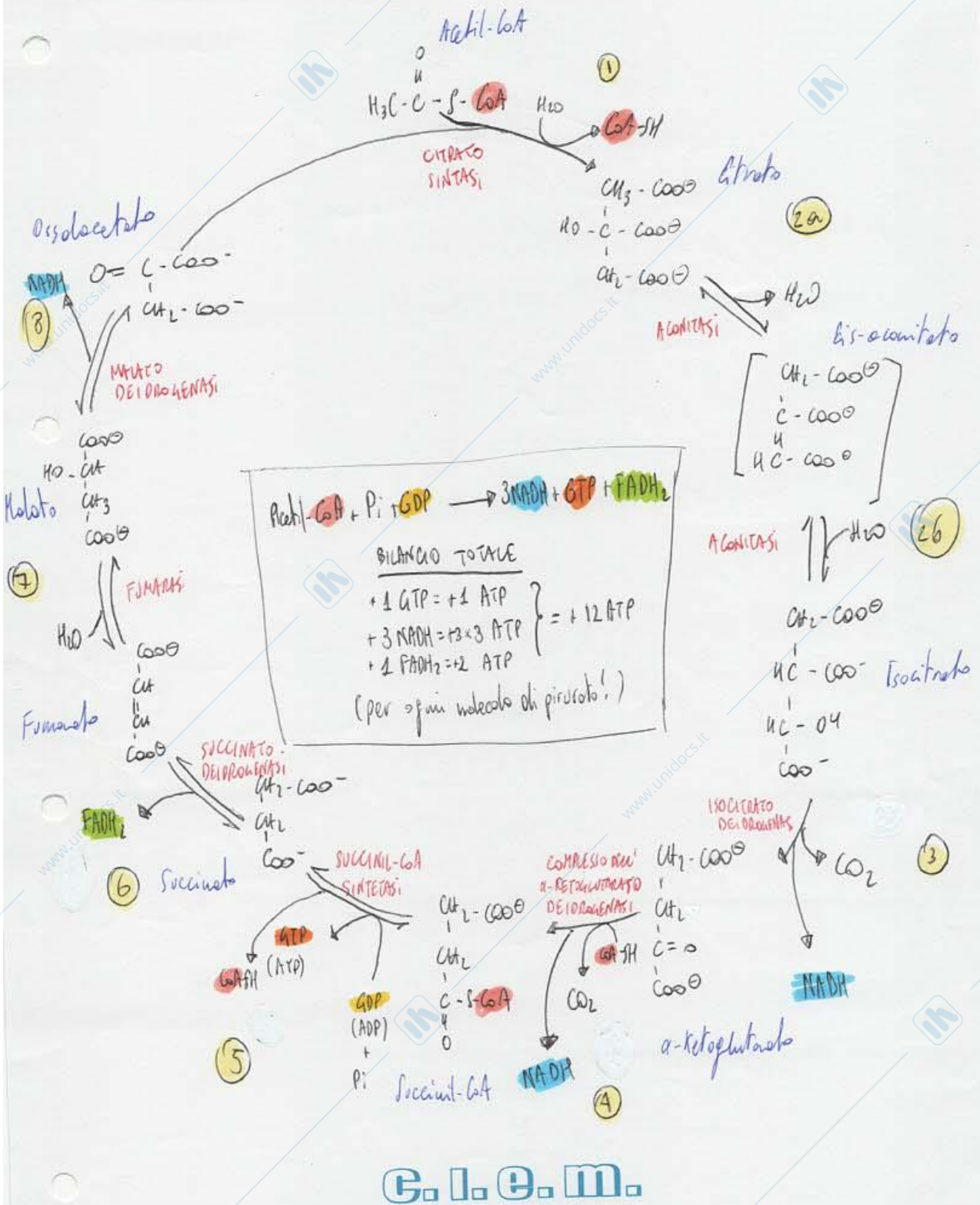


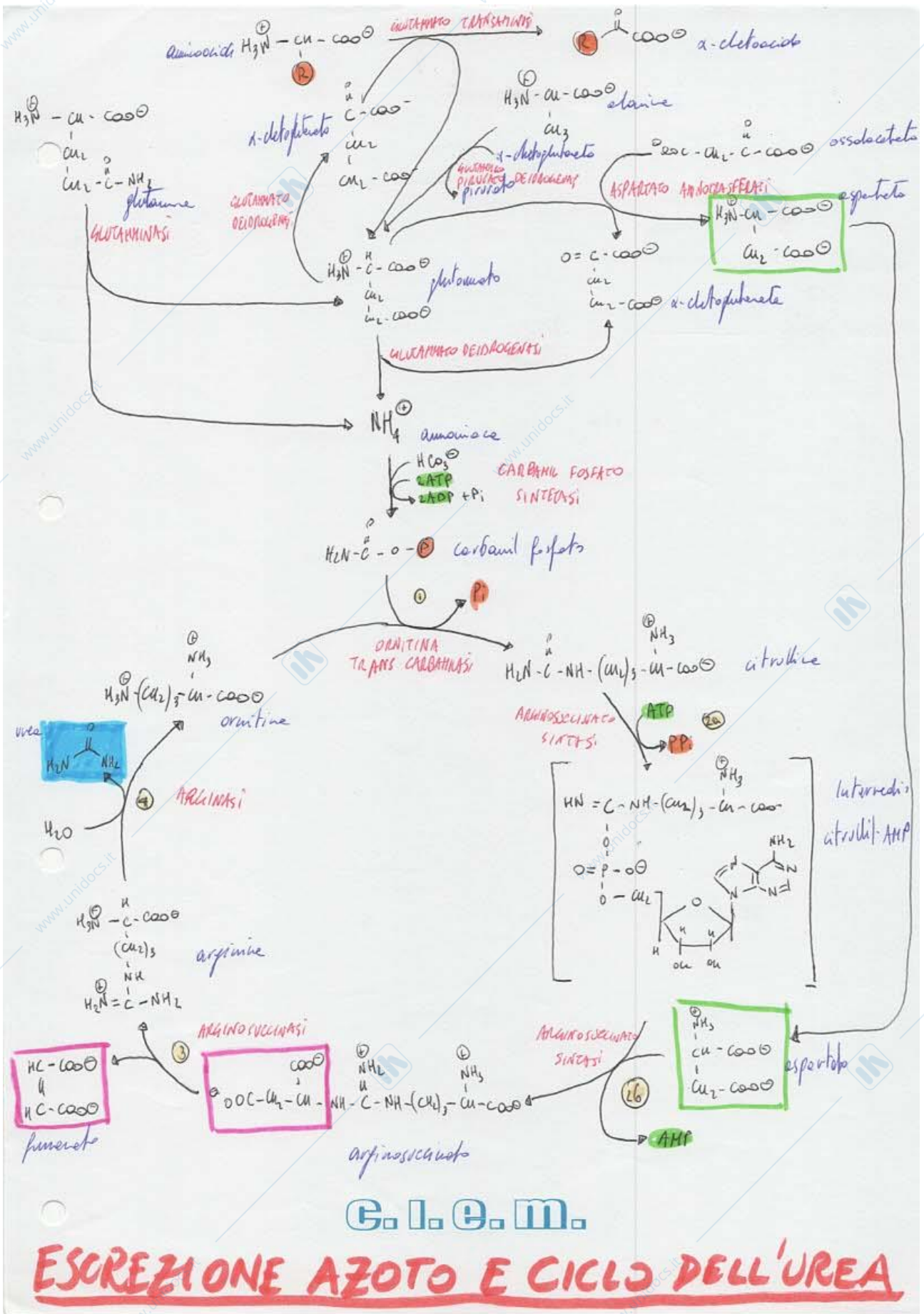
N.B.: necessario di 3 G6P per ottenere i due F6P e un G3P ridotti.

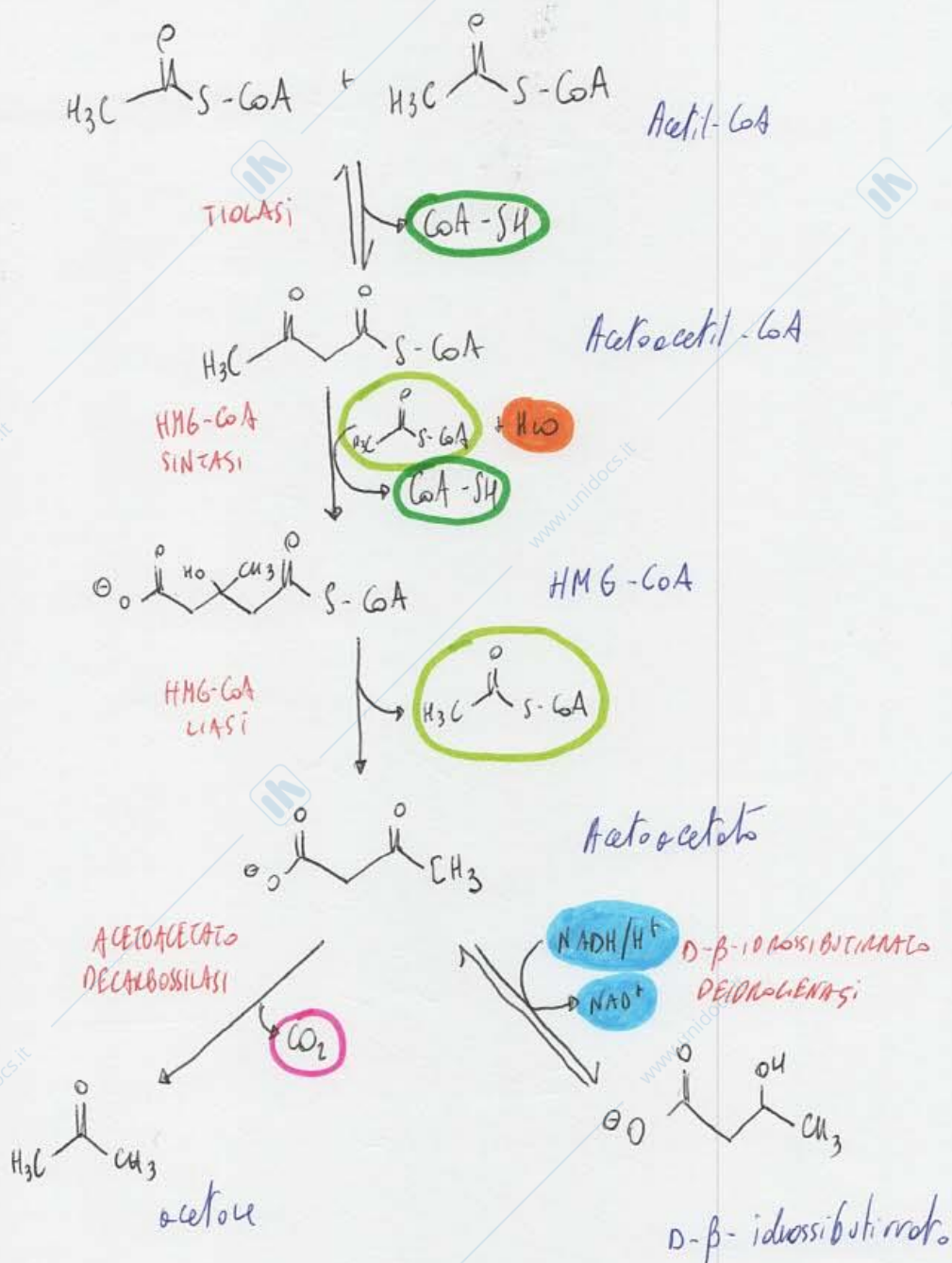
VIA DEL PENTOSIO FOSFATO



CICLO DI KREBS

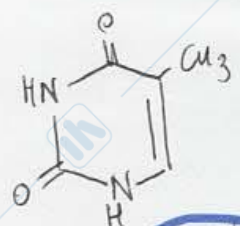






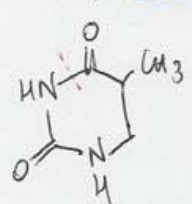
FORMAZIONE CORPI CHETONICI

G. I. E. M.



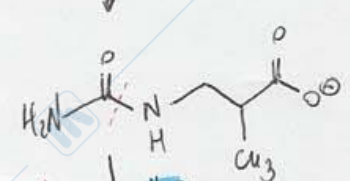
Timine

DIIDROPIRIMIDINE
DEIDROGENASI
 $\xrightarrow{NADPH/H^+}$
 $\xrightarrow{NADP^+}$



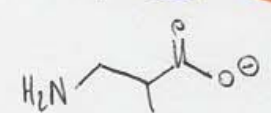
diidrotimine

DIIDROPIRIMIDASI
 $\xrightarrow{H_2O}$



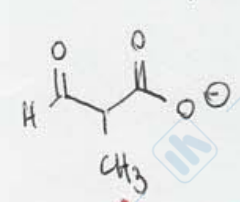
β -ureidoisobutirrato

β -UREIDOPROPRIONASI
 $\xrightarrow{H_2O}$
 $\xrightarrow{NH_4^+}$
 $\xrightarrow{HCO_3^-}$



β -amminoisobutirrato

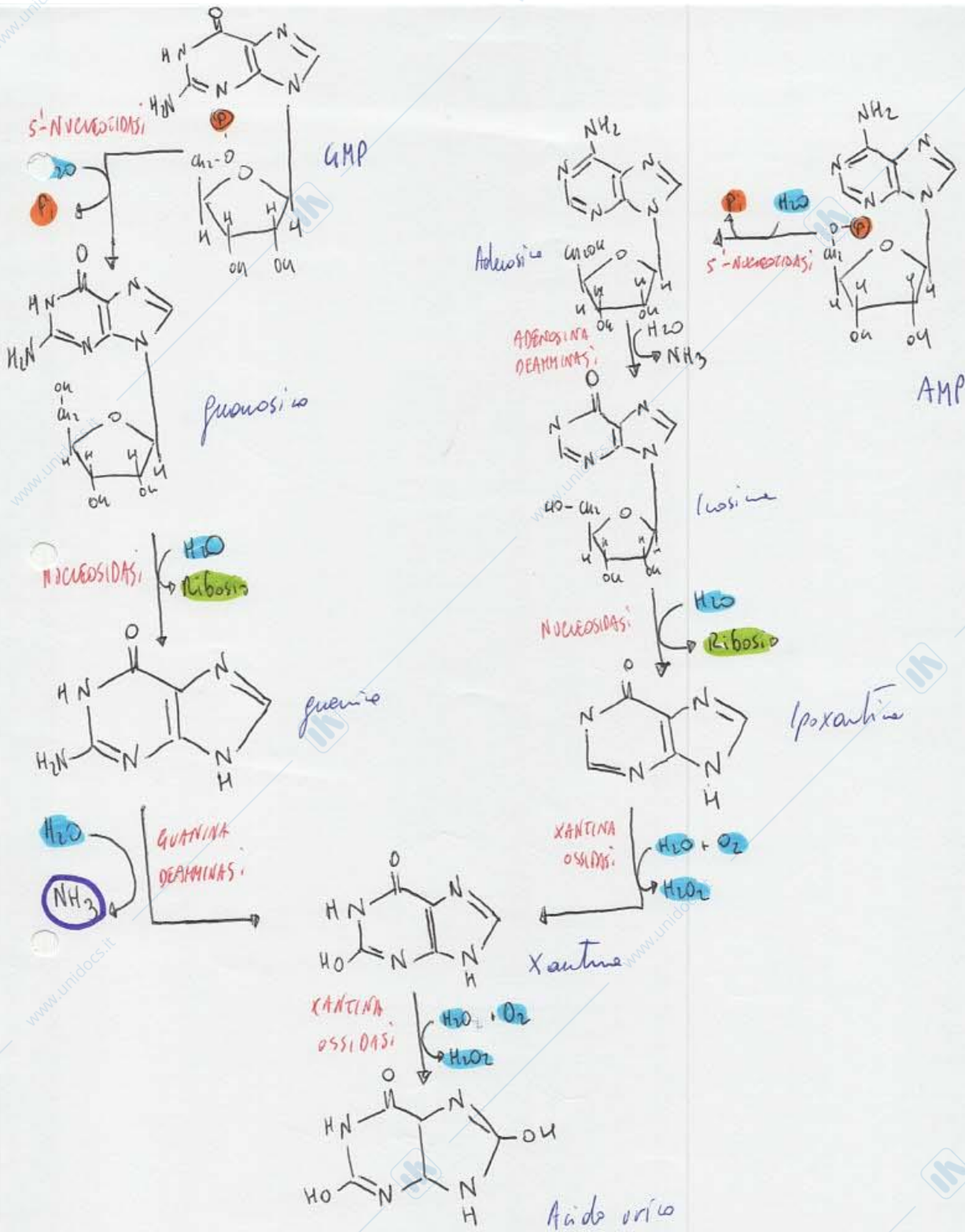
AMMINOTRANSFERASI
 $\xrightarrow{\alpha\text{-Ketoglutarato}}$
 \rightarrow glutammato



Metilmetilaldehyde

DEGRADAZIONE PIRIMIDINE

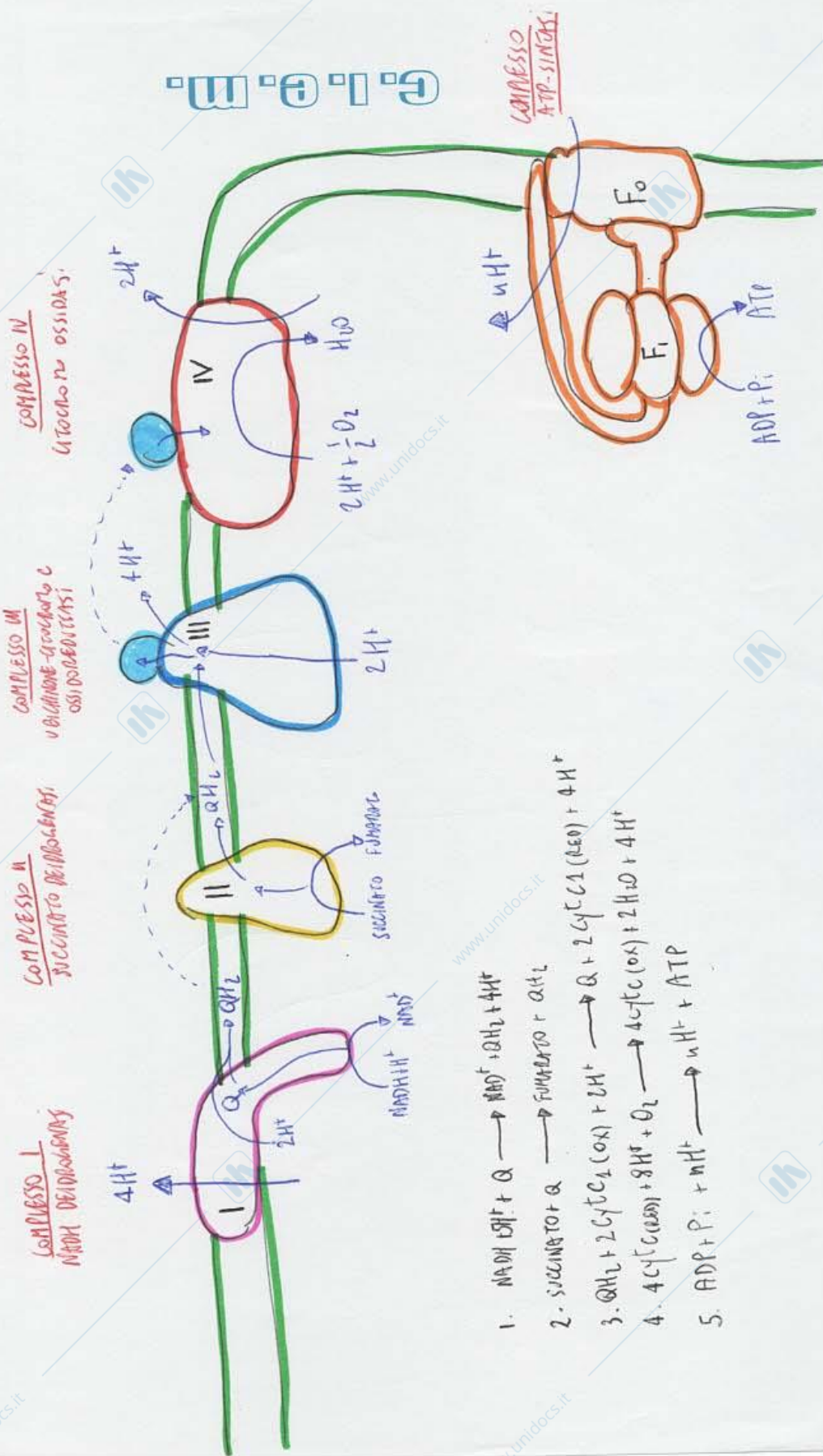
C.I.E.M.



G.I.E.M.

DE GRADAZIONE PURINE

FOSFORILAZIONE OSSIDATIVA



COMPLESSO IV
CITOCROMO C
OSSIDASI

COMPLESSO III
CITOCROMO C
OSSIDASI

COMPLESSO II
SUCCINATO DEIDROGENASI

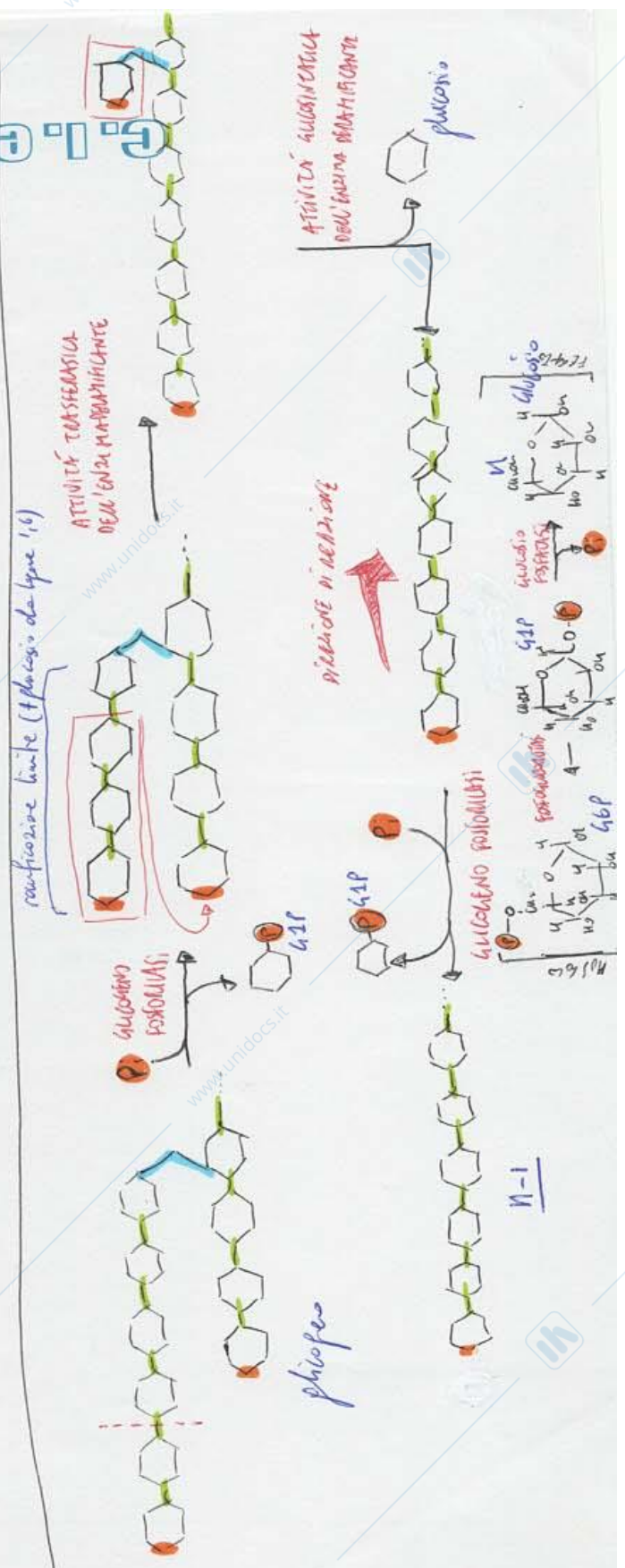
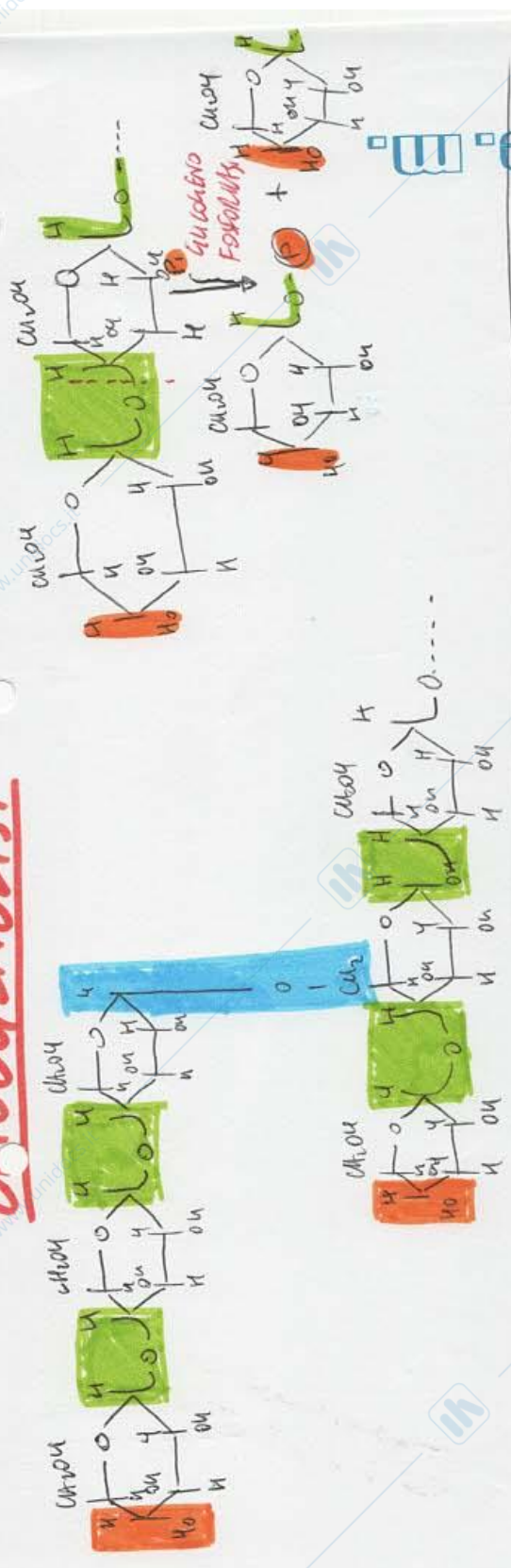
COMPLESSO I
NADH DEIDROGENASI

COMPLESSO
ATP-SINTASI

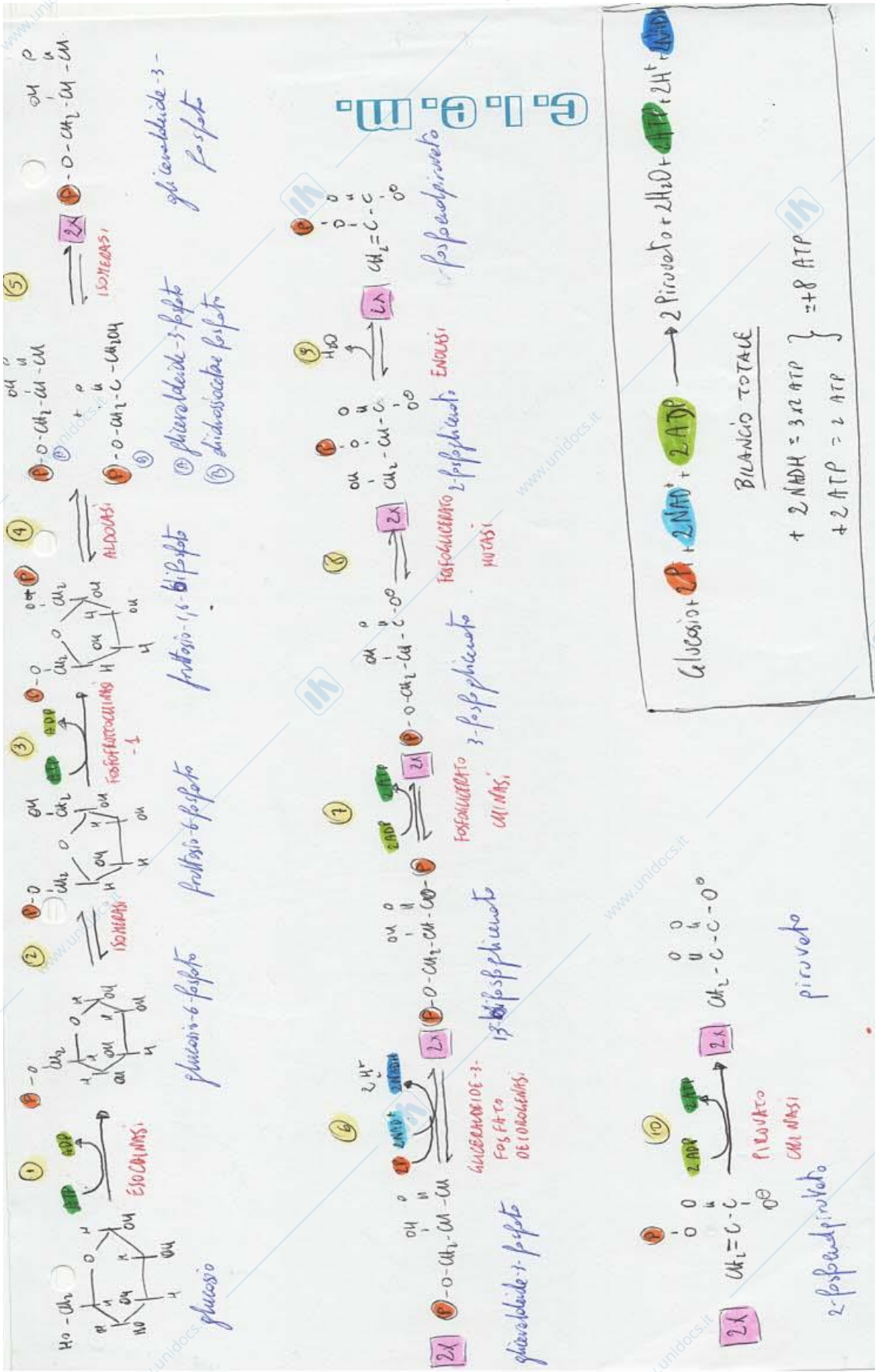
1. $NADH + H^+ + Q \rightarrow NAD^+ + QH_2 + 4H^+$
2. $SUCCINATO + Q \rightarrow FUMARATO + QH_2$
3. $QH_2 + 2CytC_1(ox) + 2H^+ \rightarrow Q + 2CytC_1(RED) + 4H^+$
4. $4CytC(RED) + 8H^+ + O_2 \rightarrow 4CytC(ox) + 2H_2O + 4H^+$
5. $ADP + P_i + nH^+ \rightarrow nH^+ + ATP$

G.I.E.M.

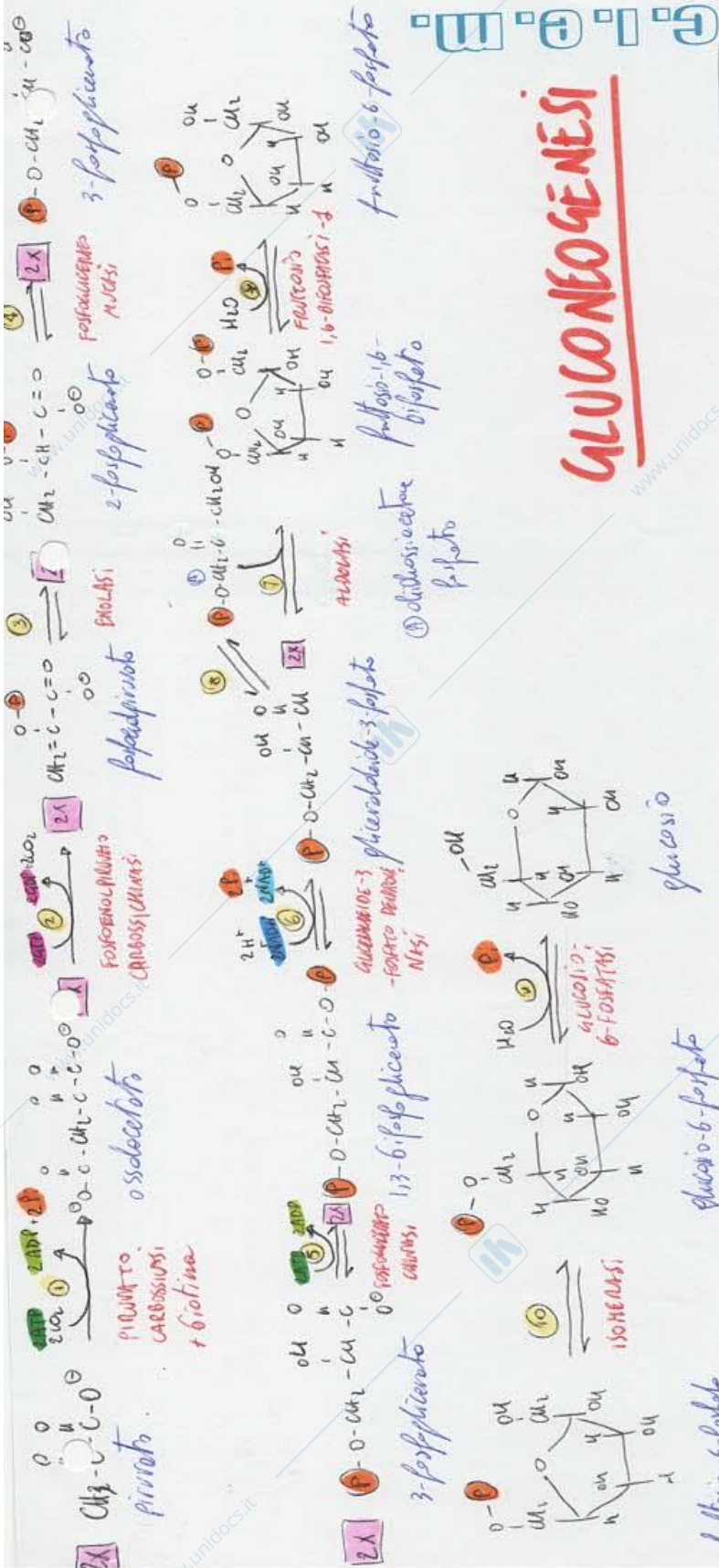
GLICOGENOLISI



M-1



Glicolisi



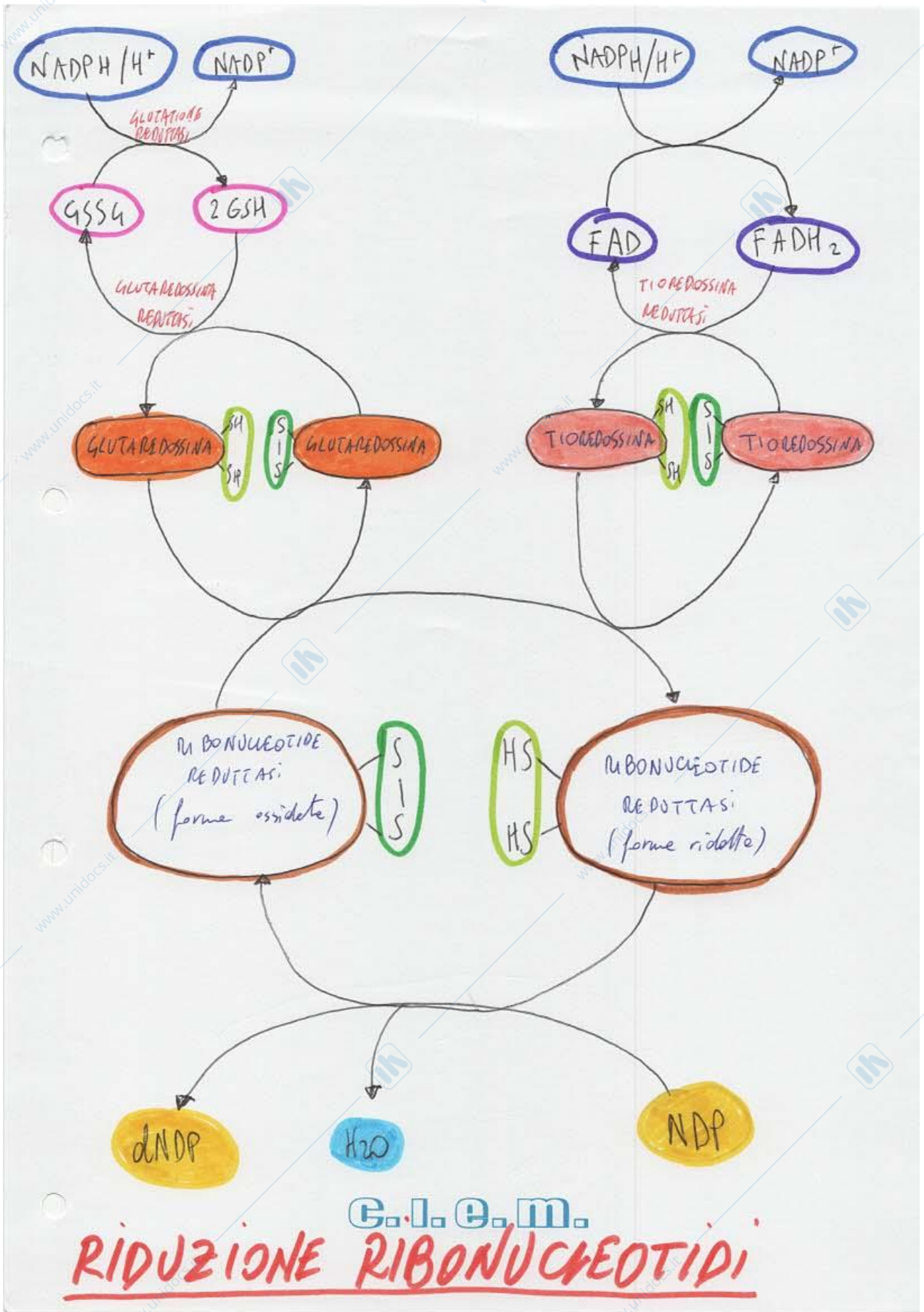
BILANCIO TOTALE

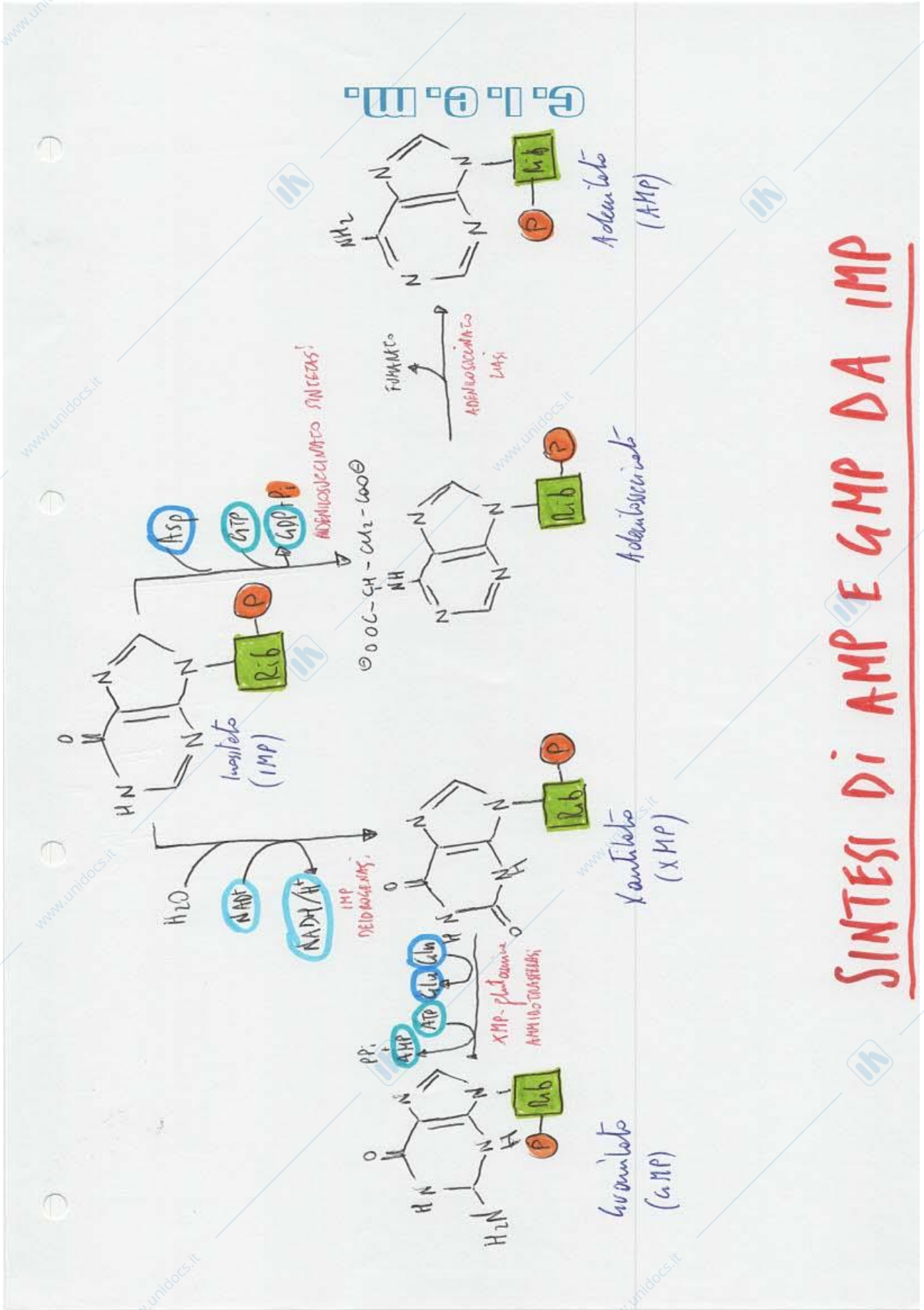
$2 \text{ Piruvato} + 4ATP + 2GTP + 2NADP + 2H^+ + 4H_2O \rightarrow \text{Glucosio} + 4ADP + 2GDP + 6P_i + 2NAD^+$

$-4 \text{ ATP} = -4 \text{ ATP}$
 $-2 \text{ GTP} = -2 \text{ ATP}$
 $-2 \text{ NADH} = -3 \times 2 \text{ ATP}$
= -12 ATP

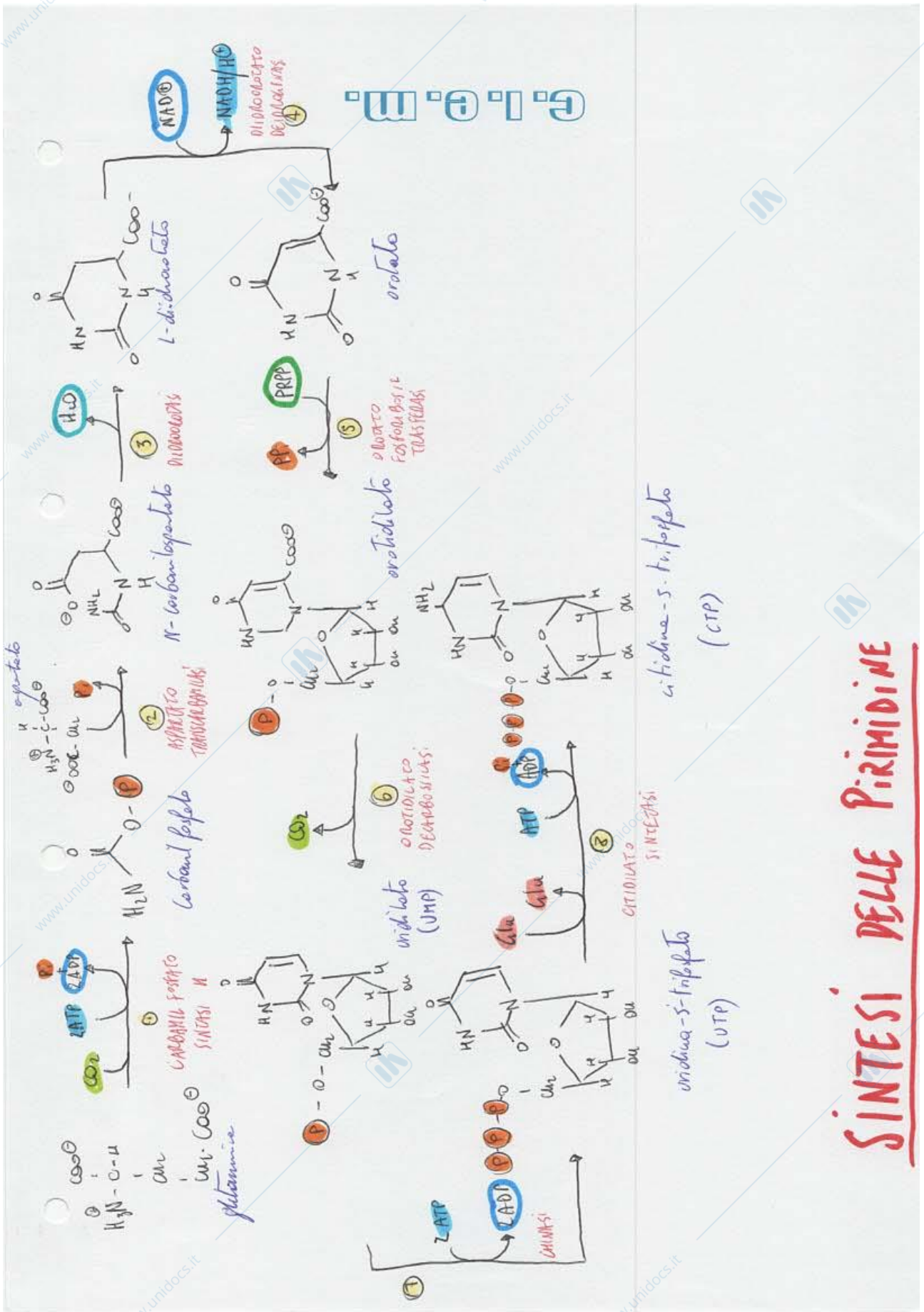
www.unidocs.it - Appunti e dispense per superare i tuoi esami universitari

www.unidocs.it - Appunti e dispense per superare i tuoi esami universitari



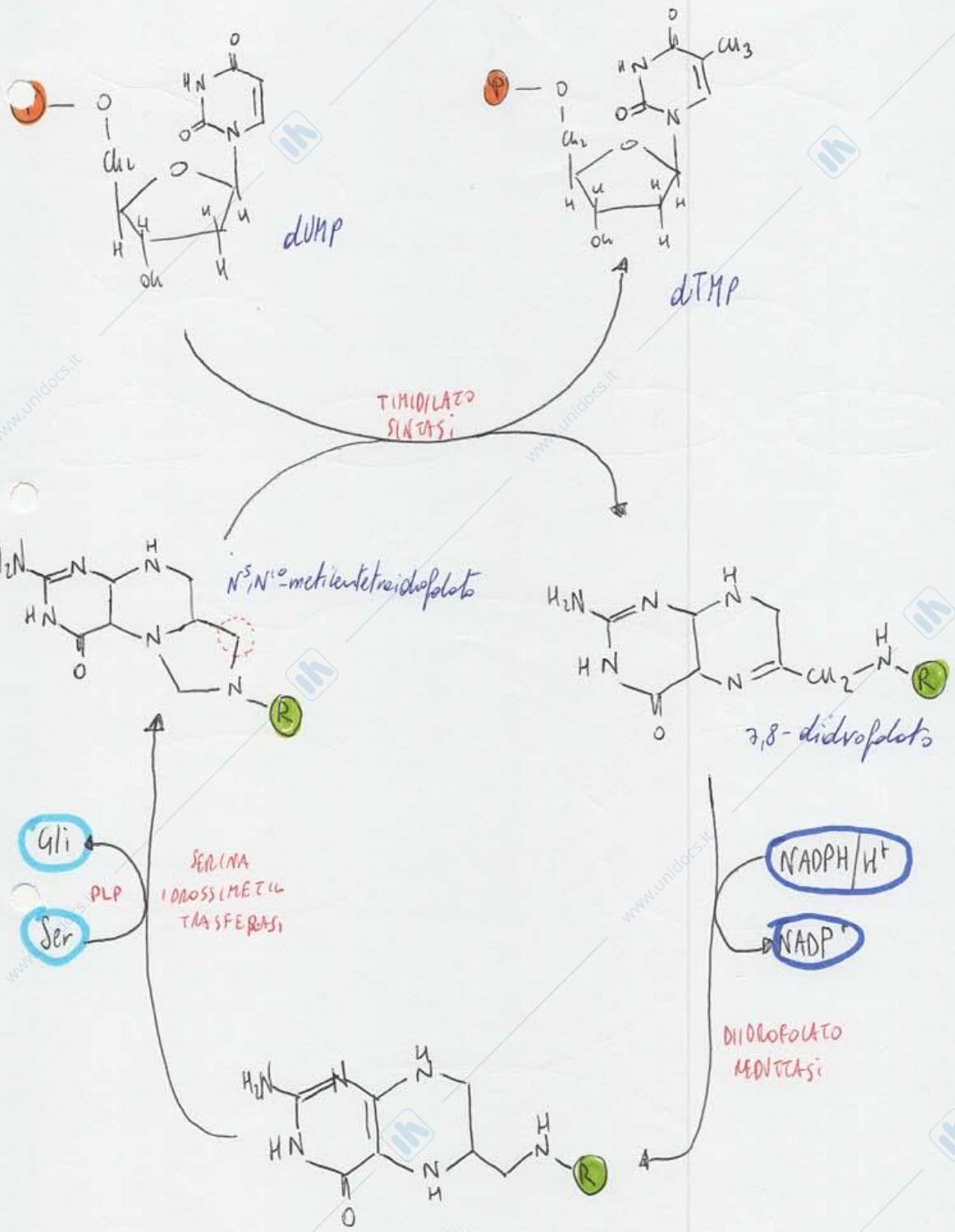


SINTESI DI AMP E GMP DA IMP



www.unidocs.it - Appunti e dispense per superare i tuoi esami universitari

www.unidocs.it - Appunti e dispense per superare i tuoi esami universitari



G.I.E.M.

SINTESI DELLA TIMIDINA