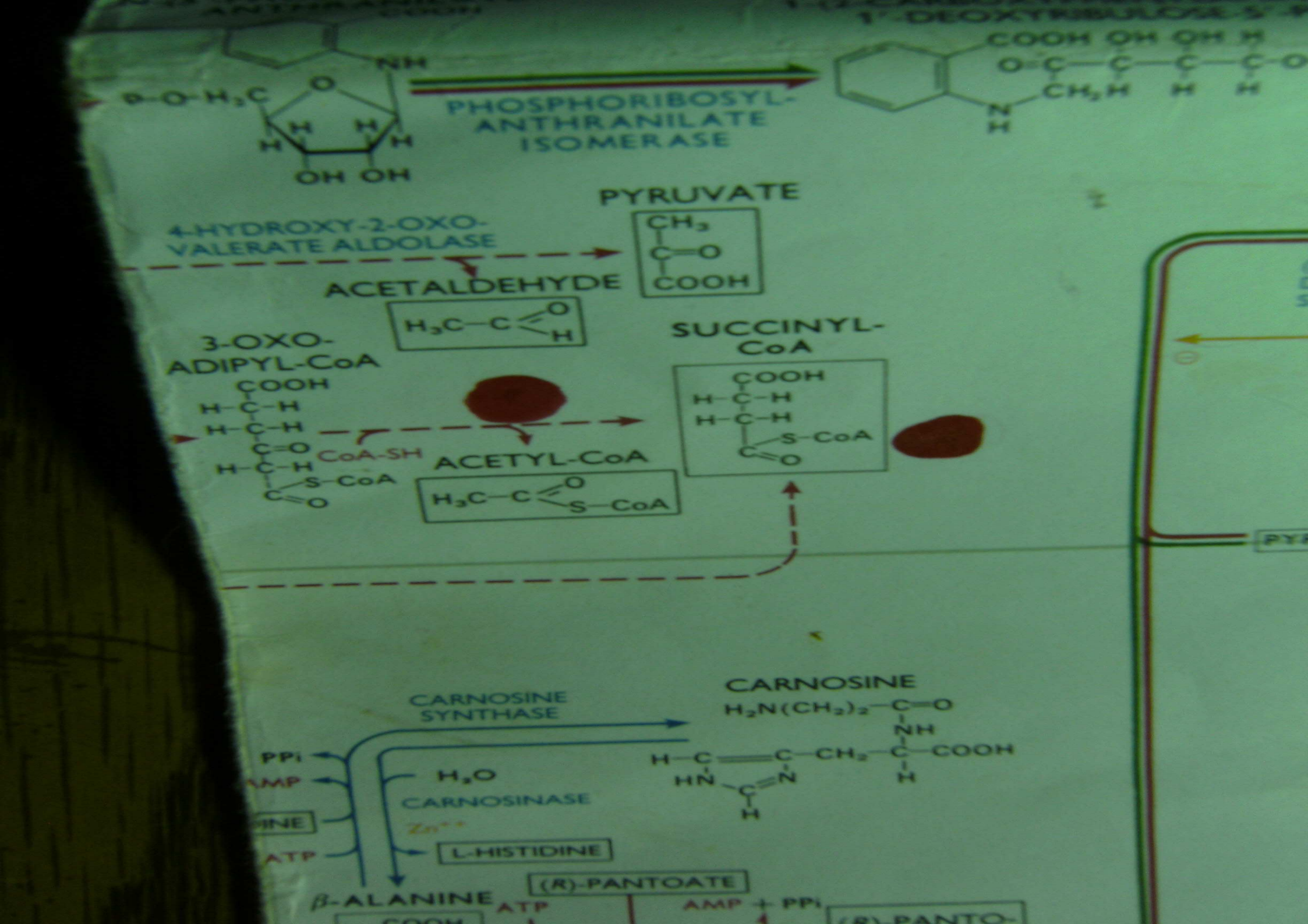
PHOSPHORIBOSYL-
ANTHRANILATE
ISOMERASE
PYRUVATE
4-HYDROXY-2-OXO-
VALERATE ALDOLASE
ACETALDEHYDE
3-OXO-
ADIPYL-CoA
SUCCINYL-
CoA
CoA-SH
ACETYL-CoA
CARNOSINE
CARNOSINE
SYNTHASE
PPi
AMP
ATP
H₂O
CARNOSINASE
Zn⁺⁺
L-HISTIDINE
β-ALANINE
(R)-PANTOATE
ATP
AMP + PPi