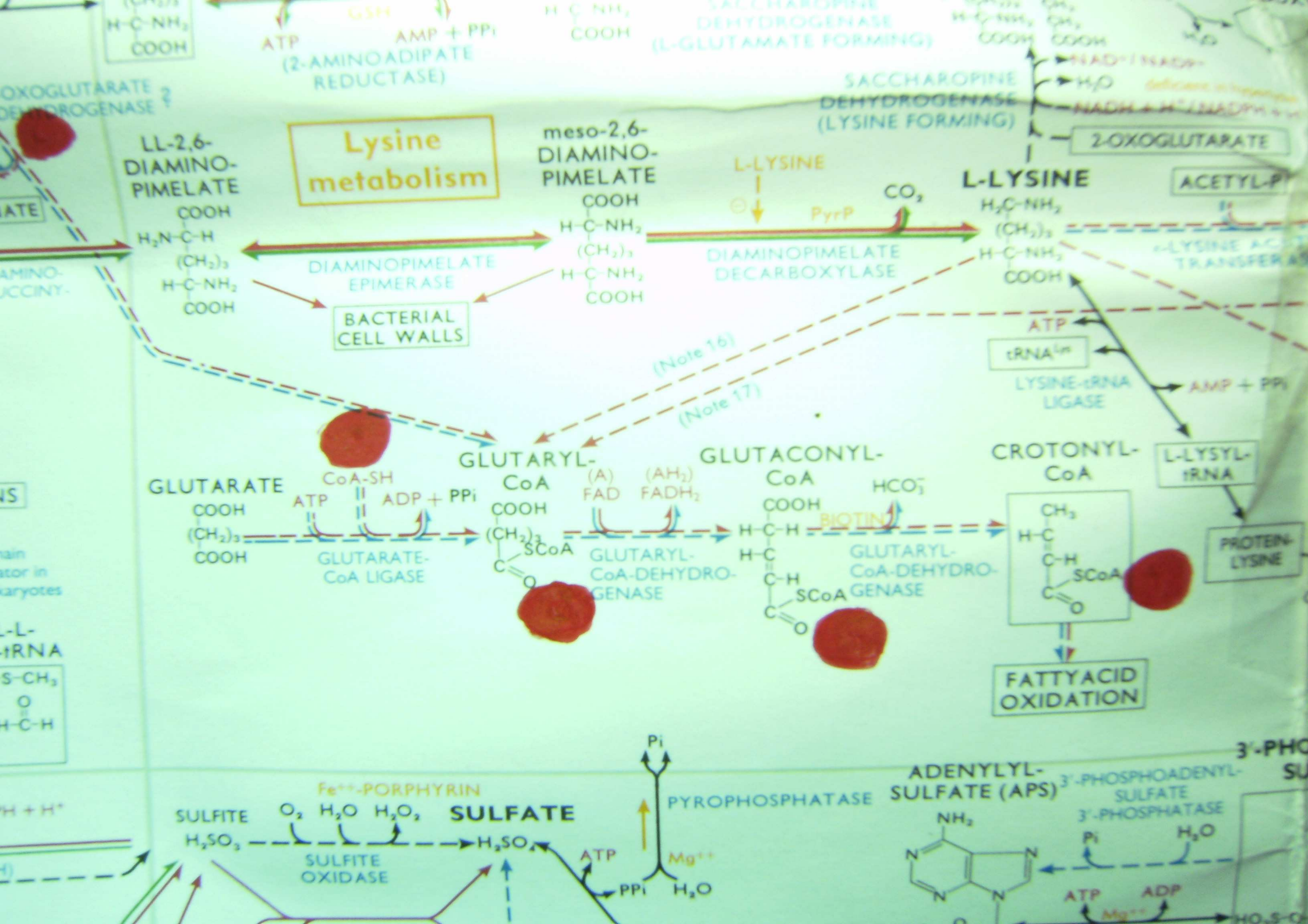
Lysine metabolism
LL-2,6-DIAMINOPIMELATE
meso-2,6-DIAMINOPIMELATE
L-LYSINE
2-OXOGLUTARATE
SACCHAROPINE DEHYDROGENASE (LYSINE FORMING)
DIAMINOPIMELATE EPIMERASE
DIAMINOPIMELATE DECARBOXYLASE
BACTERIAL CELL WALLS
ATP
tRNA^Lys
LYSINE-tRNA LIGASE
AMP + PPi
(Note 16)
(Note 17)
GLUTARATE
CoA-SH
ATP
ADP + PPi
GLUTARATE-CoA LIGASE
GLUTARYL-CoA
(A) FAD
(AH2) FADH2
GLUTARYL-CoA-DEHYDROGENASE
GLUTACONYL-CoA
HCO3-
BIOTIN
CROTONYL-CoA
L-LYSYL-tRNA
PROTEIN-LYSINE
FATTY ACID OXIDATION
Fe++-PORPHYRIN
SULFITE
SULFITE OXIDASE
SULFATE
PYROPHOSPHATASE
ADENYLYL-SULFATE (APS)
3'-PHOSPHOADENYL-SULFATE
3'-PHOSPHATASE