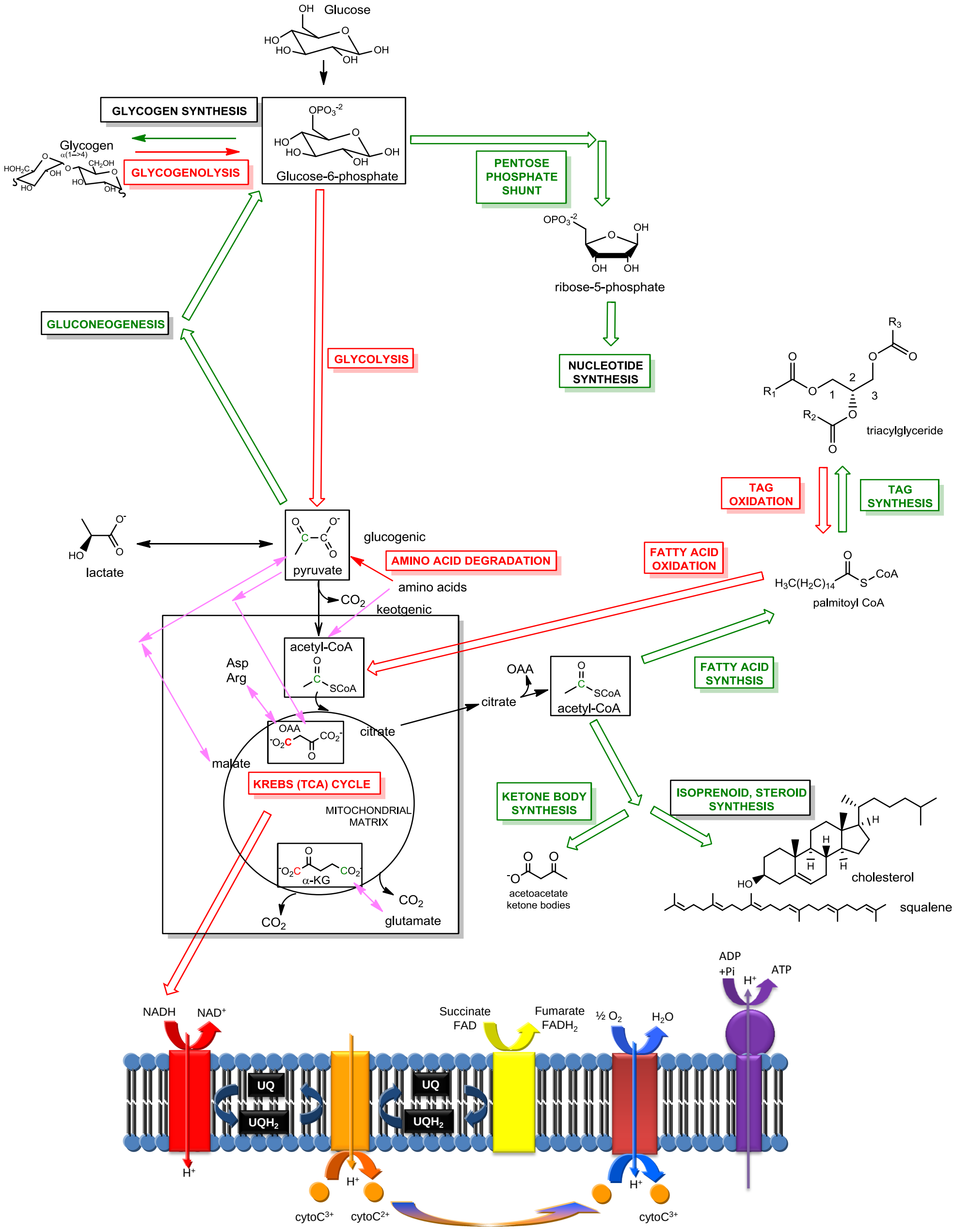
Glucose
GLYCOGEN SYNTHESIS
Glycogen
GLYCOGENOLYSIS
Glucose-6-phosphate
PENTOSE PHOSPHATE SHUNT
ribose-5-phosphate
NUCLEOTIDE SYNTHESIS
GLUCONEOGENESIS
GLYCOLYSIS
triacylglyceride
TAG OXIDATION
TAG SYNTHESIS
lactate
pyruvate
glucogenic
AMINO ACID DEGRADATION
amino acids
FATTY ACID OXIDATION
palmitoyl CoA
keotgenic
acetyl-CoA
Asp
Arg
OAA
citrate
acetyl-CoA
FATTY ACID SYNTHSIS
malate
KREBS (TCA) CYCLE
MITOCHONDRIAL MATRIX
α-KG
glutamate
KETONE BODY SYNTHESIS
acetoacetate
ketone bodies
ISOPRENOID, STEROID SYNTHESIS
cholesterol
squalene
ADP
+Pi
ATP
NADH
NAD+
Succinate
FAD
Fumarate
FADH2
½ O2
H2O
UQ
UQH2
UQ
UQH2
H+
H+
H+
cytoC3+
cytoC2+
cytoC3+