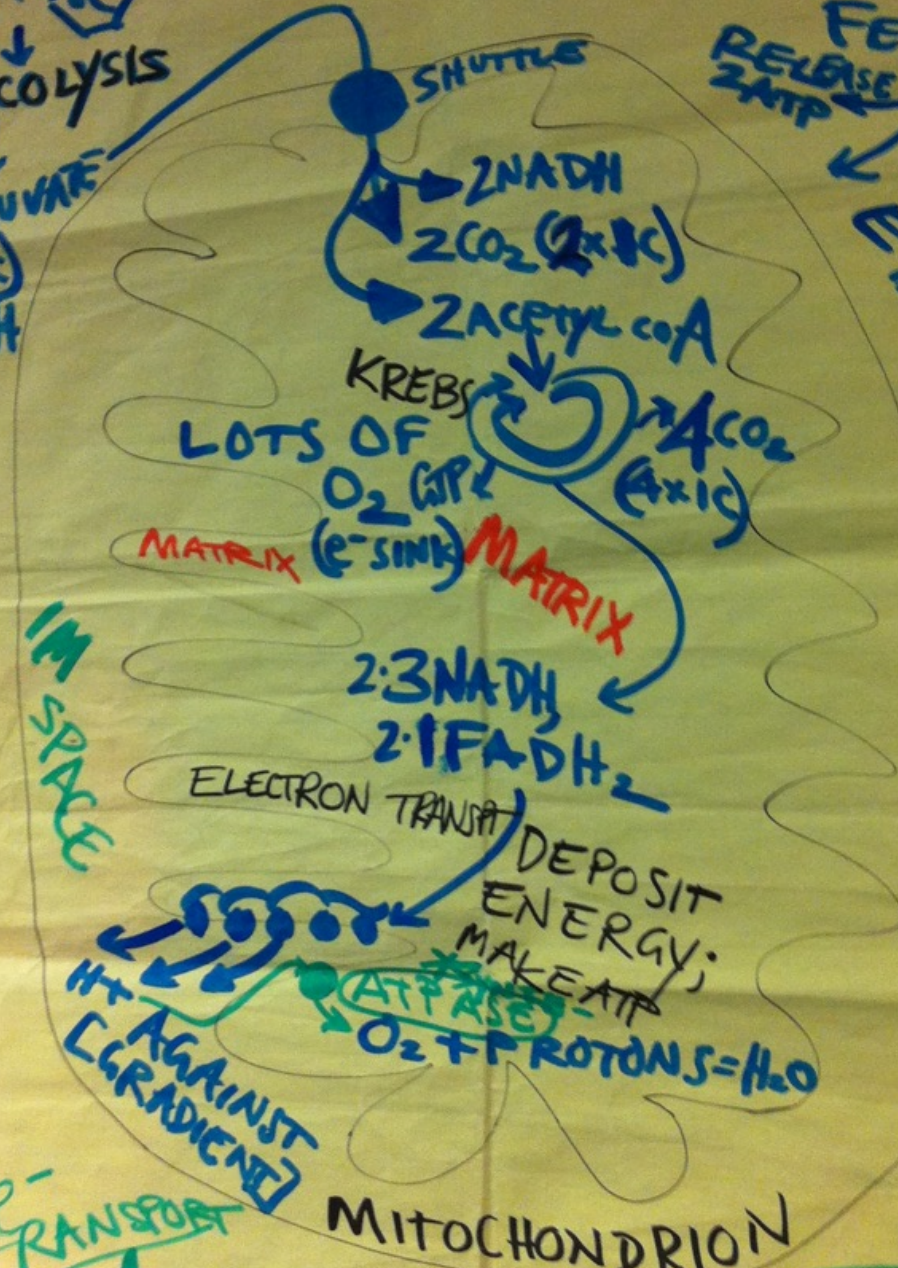


CYTOPLASM

GLUCOSE
 \downarrow
 GLYCOLYSIS
 RELEASE 2 ATP
 \downarrow
 2 PYRUVATE
 (2x3C)
 + 2 NADH

FERMENTATION
 NO O_2
 FERMENTS
 RELEASE 2 ATP
 \downarrow
 ETHANOL + NAD + CO_2
 + LACTATE + NAD +



W/ O_2
 W/O O_2

e⁻ TRANSPORT

MITOCHONDRION

FROM e⁻ TRANSPORT

ATP OVERALL = 32-34 ATP
 + DIRECT: 2 ATP FROM GLYCOLYSIS
 + INDIRECT